Table 8.1. Coal Supply Regions in EPA Base Case 2006

Region	State	Supply Region
Appalachia	Alabama	AL
Appalachia	Kentucky	KE
Appalachia	Maryland	MD
Appalachia	Ohio	OH
Appalachia	Pennsylvania	PC
Appalachia	Pennsylvania	PW
Appalachia	Tennessee	TN
Appalachia	Virginia	VA
Appalachia	West Virginia	WN
Appalachia	West Virginia	WS
Interior	Arkansas	AN
Interior	Arkansas	AS
Interior	Illinois	IL
Interior	Indiana	IN
Interior	Kansas	KS
Interior	Kentucky	KW
Interior	Louisiana	LA
Interior	Oklahoma	OK
Interior	Texas	TX
West	Alaska	AK
West	Arizona	AZ
West	Colorado, Green River	CG
West	Colorado, Raton	CR
West	Colorado, San Juan	CS
West	Colorado, Uinta	CU
West	Montana	ME
West	Montana	MP
West	North Dakota	ND
West	New Mexico, Raton	NR
West	New Mexico	NS
West	Utah	UT
West	Washington	WA
West	Wyoming	WG
West	Wyoming, high	WH
West	Wyoming, Low	WL
	Imports	IM

Figure 8.1 Map of the Coal Supply Regions in EPA Base Case 2006

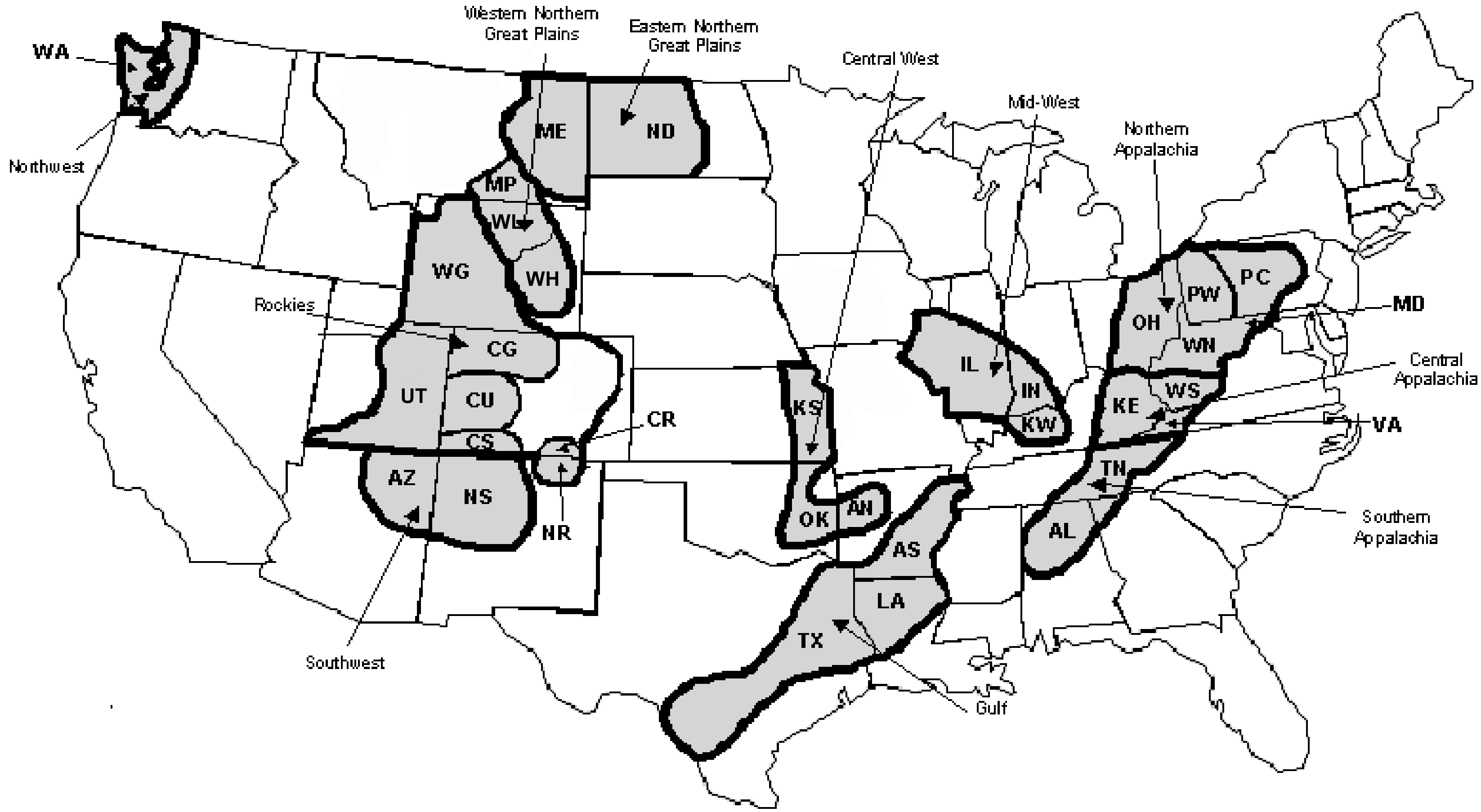


Table 8.2. Coal Demand Regions in EPA Base Case 2006

The coal demand regions in Base Case 2006 capture distinct geographically based transportation options available to a set of generating units. The last column indicates instances where a specific geographically based transporation option is availabe to a single plant or only to new (potential) units. When IPM brings on new coal capacity in a model region it assigns the resulting new "potential" model plant to a specific coal demand region. These assignments are indicated in the third column.

Coal Demand Region	Descriptive Name	IPM Model Regions with Potential Plants Assigned to this Coal Demand Region	Notes
ALR1	Alabama_High-Cost Competitive_Not Mine Mouth_Rail	---	
ALR2	Alabama_Low-Cost Competitive_Not Mine Mouth_Barge	---	Just includes Greene County Plant
ALR3	Alabama_Low-Cost Competitive_Not Mine Mouth_Rail	---	Just includes E C Gaston Plant
AMM1	New Mexico_High-Cost Competitive_Mine Mouth_Rail	---	Just includes Four Corners Plant
AMM2	Arizona, New Mexico_High-Cost Competitive_Not Mine Mouth_Rail	---	
AMM3	Arizona, Nevada_Low-Cost Competitive_Mine Mouth_Barge	SNV	
AMM4	New Mexico_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	---	Just includes San Juan Plant
AMM5	New Mexico_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	Just includes Raton Plant
AMN1	Arizona_High-Cost Competitive_Not Mine Mouth_Rail	---	Just includes Apache Station
AMN2	Arizona_Low-Cost Competitive_Not Mine Mouth_Rail	AZNM	
AMN3	Arizona_Non-Competitive_Not Mine Mouth_Rail	---	
CAI1	Virginia_High-Cost Competitive_Not Mine Mouth_Rail	---	
CAI2	Kentucky_Low-Cost Competitive_Not Mine Mouth_Rail	---	
CAI3	Kentucky_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	Just includes Tyrone Plant
CAR1	North and South Carolina_High-Cost Competitive_Not Mine Mouth_Rail	---	
CAR2	North and South Carolina_Low-Cost Competitive_Not Mine Mouth_Rail	VACA	
CAR3	North and South Carolina_Non-Competitive_Not Mine Mouth_Rail	---	
CC1	Colorado_High-Cost Competitive_Not Mine Mouth_Rail	RMPA	
CC2	Colorado_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	
CC3	Colorado_Non-Competitive_Not Mine Mouth_Rail	---	
CU1	Utah_High-Cost Competitive_Not Mine Mouth_Rail	---	
CU2	Utah_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	---	
CU3	Utah_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	
CU4	Colorado, Montana, Utah_Non-Competitive_Not Mine Mouth_Rail	---	
DAL1	North Dakota_High-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	---	Just includes Milton R Young Plant.
DAL2	Montana, North Dakota_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	---	
DAL4	North Dakota_Non-Competitive_Not Mine Mouth_Rail	---	
EIM1	Iowa, Missouri_High-Cost Competitive_Not Mine Mouth_Rail	---	
EIM2	Iowa_Low-Cost Competitive_Not Mine Mouth_Barge	---	Just includes Fair Station
EIM3	Iowa, Missouri_Low-Cost Competitive_Not Mine Mouth_Rail	---	

EIM4	Iowa_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	Just includes Pella Plant
EIM5	Iowa, Missouri_Non-Competitive_Not Mine Mouth_Rail	---	
FL1	Florida_High-Cost Competitive_Not Mine Mouth_Rail	---	
FL2	Florida_Low-Cost Competitive_Not Mine Mouth_Barge	---	
FL3	Florida_Low-Cost Competitive_Not Mine Mouth_Rail	FRCC	
GAR1	Georgia, Mississippi_Low-Cost Competitive_Not Mine Mouth_Rail	SOU	
GAR2	Georgia_Non-Competitive_Not Mine Mouth_Rail	---	
GFB1	Alabama_Low Cost Competitive_Not Mine Mouth_Rail	---	
GFB3	Mississippi_Low-Cost Competitive_Not Mine Mouth_Barge	---	Just includes Jack Watson Platn
GFB4	Mississippi_Non-Competitive_Not Mine Mouth_Rail	---	Just includes Victor J Daniel Jr Plant
GFR1	Mississippi, Texas_High-Cost Competitive_Not Mine Mouth_Rail	---	
GFR2	Arkansas, Louisiana, Texas_Low-Cost Competitive_Not Mine Mouth_Rail	---	
GFR3	Arkansas, Louisiana, Texas_Non-Competitive_Not Mine Mouth_Rail	---	
IBB1	Kentucky_High-Cost Competitive_Not Mine Mouth_Rail	---	Just includes Cane Run Plant
IBB2	Kentucky_Low Cost Competitive_Not Mine Mouth_Rail	---	
IBB3	Indiana, Kentucky_Low-Cost Competitive_Not Mine Mouth_Barge	---	
IBB4	Illinois, Indiana, Kentucky_Low-Cost Competitive_Not Mine Mouth_Rail	TVA	
III1	Illinois, Indiana_High-Cost Competitive_Not Mine Mouth_Rail	---	
III2	Kentucky_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	Just includes Green River Plant
III3	Illinois, Indiana, Kentucky_Low-Cost Competitive_Not Mine Mouth_Barge	---	
III4	Illinois, Indiana_Low-Cost Competitive_Not Mine Mouth_Rail	MANO	
III5	Illinois, Indiana, Kentucky_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	
III6	Indiana_Non-Competitive_Mine Mouth_Truck/Conveyor Belt	---	Just includes Frank E Ratts Plant
III7	Illinois, Indiana, Kentucky_Non-Competitive_Not Mine Mouth_Rail	---	
IMB1	Illinois, Iowa, Missouri_High-Cost Competitive_Not Mine Mouth_Rail	---	
IMB2	Iowa, Missouri_Low-Cost Competitive_Not Mine Mouth_Rail	---	
IMB3	Missouri_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	
IMB4	Iowa_Non-Competitive_Not Mine Mouth_Rail	---	
MA_1	Maryland_Low-Cost Competitive_Not Mine Mouth_Rail	MACS	
MA_2	Maryland_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	
MA_3	Maryland_Non-Competitive_Not Mine Mouth_Rail	---	
MAB1	Maryland_Low-Cost Competitive_Not Mine Mouth_Rail	---	
MIB1	Michigan_High-Cost Competitive_Not Mine Mouth_Rail	---	
MIB2	Michigan, Wisconsin_Low-Cost Competitive_Not Mine Mouth_Barge	---	
MIB3	Michigan, Wisconsin_Low-Cost Competitive_Not Mine Mouth_Rail	MECS	
MIB4	Michigan_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	Just includes Endicott Station
MNR1	Minnesota, South Dakota_High-Cost Competitive_Not Mine Mouth_Rail	---	
MNR2	Minnesota_Low-Cost Competitive_Not Mine Mouth_Barge	---	Just includes Silver Bay Power Plant
MNR3	Minnesota_Low-Cost Competitive_Not Mine Mouth_Rail	---	

MNR4	Minnesota_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	Just includes Minnesota Valley Plant
MNR5	Minnesota, South Dakota_Non-Competitive_Not Mine Mouth_Rail	---	
MWR1	Iowa, Kansas, Missouri, Nebraska, Oklahoma_High-Cost Competitive_Not Mine Mouth_Rail	---	
MWR2	Kansas, Missouri_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	
MWR3	Kansas, Missouri, Nebraska, Oklahoma_Low-Cost Competitive_Not Mine Mouth_Rail	SPPN, SPPS	
MWR5	Kansas, Missouri_Non-Competitive_Not Mine Mouth_Rail	---	
NAI1	West Virginia_High-Cost Competitive_Mine Mouth_Rail	---	Just includes Harrison Power Station
NAI2	West Virginia_High-Cost Competitive_Not Mine Mouth_Rail	---	Just includes Mount Storm Power Station
NAI3	Pennsylvania, West Virginia_Low-Cost Competitive_Not Mine Mouth_Barge	---	
NAI4	West Virginia_Low-Cost Competitive_Not Mine Mouth_Rail	---	Just includes Willow Island Plant
NAI5	West Virginia_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	Just includes Albright Plant
NAI6	Ohio_Non-Competitive_Not Mine Mouth_Rail	---	Just includes Muskingum River Plant
NE1	Maine, Massachusetts, New Hampshire, New Jersey_High-Cost Competitive_Not Mine Mouth_Rail	---	
NE2	Connecticut, Massachusetts, New Hampshire, New Jersey_Low-Cost Competitive_Not Mine Mouth_Barge	MACE	
NE3	Connecticut, New York_Low-Cost Competitive_Not Mine Mouth_Rail	DSNY, NENG	
NII1	Indiana_High-Cost Competitive_Not Mine Mouth_Rail	---	
NII2	Illinois_Low-Cost Competitive_Not Mine Mouth_Barge	---	
NII3	Illinois, Indiana_Low-Cost Competitive_Not Mine Mouth_Rail	---	
NNR1	Nevada_Non-Competitive_Not Mine Mouth_Rail	---	Just includes North Valmy Plant
NOR1	Ohio_High-Cost Competitive_Not Mine Mouth_Rail	---	
NOR2	Ohio_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	---	Just includes Conesville Plant
NOR3	Ohio_Low-Cost Competitive_Not Mine Mouth_Barge	---	
NOR4	Ohio_Low-Cost Competitive_Not Mine Mouth_Rail	---	Just includes Niles Plant
NOR5	Ohio_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	
NOR6	Ohio_Non-Competitive_Not Mine Mouth_Rail	---	Just includes O H Hutchings Plant
NU1	New York_High-Cost Competitive_Not Mine Mouth_Rail	---	
NU2	New York_Low-Cost Competitive_Not Mine Mouth_Rail	UPNY	
ORP1	Ohio, Pennsylvania, West Virginia_High-Cost Competitive_Not Mine Mouth_Rail	---	
ORP2	Ohio, West Virginia_Low Cost Competitive_Not Mine Mouth_Rail	ECAP	
ORP3	Ohio, Pennsylvania, West Virginia_Low-Cost Competitive_Not Mine Mouth_Barge	---	
ORP4	Ohio, Pennsylvania, West Virginia_Low-Cost Competitive_Not Mine Mouth_Rail	---	
PC1	Pennsylvania_High-Cost Competitive_Not Mine Mouth_Rail	---	
PC2	Pennsylvania_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	Just includes Homer City Station
PC3	Pennsylvania_Low-Cost Competitive_Not Mine Mouth_Barge	---	
PC4	Pennsylvania_Low-Cost Competitive_Not Mine Mouth_Rail	MACW	
PC6	Pennsylvania_Non-Competitive_Not Mine Mouth_Rail	---	Just includes PPL Montour
PCOM	COMD_Model_Region_Low-Cost Competitive_Not Mine Mouth_Rail	COMD	Assigned only to new potential plants

PE1	New Jersey, Pennsylvania_High-Cost Competitive_Not Mine Mouth_Rail	---	
PE2	Pennsylvania_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	
PE3	Delaware, New Jersey, Pennsylvania_Non-Competitive_Not Mine Mouth_Rail	---	
PECK	ECAK_Model_Region_Low Cost Competitive_Not Mine Mouth_Rail	ECAK	Assigned only to new potential plants
PECM	ECAM_Model_Region_Low-Cost Competitive_Not Mine Mouth_Rail	ECAM	Assigned only to new potential plants
PERC	Arkansas, TexasRL_Low-Cost Competitive_Not Mine Mouth_Rail	ENTG, ERCT	
PMRO	MRO_Model_Region_High-Cost Competitive_Not Mine Mouth_Rail	MRO	Assigned only to new potential plants
PNWP	Montana, Nevadaon-Competitive_Not Mine Mouth_Rail	NWPE	
PPNW	PNW _Model_Region_Non-Competitive_Not Mine Mouth_Rail	PNW	Assigned only to new potential plants
PRB1	Wyoming_High-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	---	
PRB3	Montana_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	Just includes Colstrip plant
PRB4	Wyoming_Non-Competitive_Not Mine Mouth_Rail	---	
PVAP	VAPW_Model_Region_High-Cost Competitive_Not Mine Mouth_Rail	VAPW	Assigned only to new potential plants
SNR1	Nevada_Non-Competitive_Not Mine Mouth_Rail	---	
TAB1	Alabama_High-Cost Competitive_Not Mine Mouth_Rail	---	Just includes Charles R Lowman Plant
TAB2	Alabama_Low Cost Competitive_Not Mine Mouth_Rail	---	Just includes Widows Creek plant
TAB3	Alabama, Tennessee_Low-Cost Competitive_Not Mine Mouth_Barge	---	
TKI1	Tennessee_Low-Cost Competitive_Not Mine Mouth_Rail	---	
TKI2	Tennessee_Non-Competitive_Not Mine Mouth_Rail	---	
TXL1	Mississippi, Texas_High-Cost Competitive_Mine Mouth_Rail	---	
TXL2	Texas_High-Cost Competitive_Not Mine Mouth_Rail	---	
TXL3	Texas_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	---	Just includes Twin Oaks Power One Plant
TXL4	Louisiana, Texas_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	---	
TXL5	Texas_Non-Competitive_Not Mine Mouth_Rail	---	Just includes Gibbons Creek Plant
VEP1	South Carolina, Virginia_High-Cost Competitive_Not Mine Mouth_Rail	---	
VEP2	Virginia_Non-Competitive_Not Mine Mouth_Rail	---	
WIR1	Wisconsin_High-Cost Competitive_Not Mine Mouth_Rail	---	
WIR2	Wisconsin_Low-Cost Competitive_Not Mine Mouth_Rail	WUMS	
WIR4	Wisconsin_Non-Competitive_Not Mine Mouth_Rail	---	
WOM1	Michigan_Low-Cost Competitive_Not Mine Mouth_Rail	---	Just includes Eckert Station Plant
WOM2	Michigan_Non-Competitive_Not Mine Mouth_Rail	---	Just includes Erickson Station Plant
WON1	California_High-Cost Competitive_Not Mine Mouth_Rail		
WON2	California_Low-Cost Competitive_Not Mine Mouth_Rail	---	Just includes ACE Cogeneration Facility
WON3	Montana, Oregon, Washington_Non-Competitive_Not Mine Mouth_Rail	---	
WYG1	Wyoming_High-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	---	Just includes Neil Simpson II Plant
WYG2	Wyoming_High-Cost Competitive_Not Mine Mouth_Rail	---	Just includes Osage Plant
WYG3	Wyoming_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	---	
WYG4	Wyoming_Non-Competitive_Mine Mouth_Rail	---	Just includes Jim Bridger Plant

Table 8.3. Average Mine-Mouth Coal Prices (2004$/ton) in the EPA Base Case 2006

	2010	2015	2020	2025
Appalachia	33.74	34.14	34.99	35.92
Interior	22.79	23.01	23.95	25.20
West	12.25	10.21	10.22	11.05
National	20.78	19.54	20.10	21.00

Table 8.5. National Average Mine-Mouth and Delivered Coal Prices in the EPA Base Case 2006 (2004$/MMBtu)

	2010	2015	2020	2025
Mine-mouth Price (U.S. Average)	1.00	0.95	0.97	1.02
Delivered Price (U.S. Average)	1.60	1.55	1.56	1.60

Table 8.6. Example of Coal Assignments made in EPA Base Case 2006

Plant Name	Unique ID	SIP SO_2 Limit (lbs/MMBtu)	Scrubber?	Fuels Allowed
Salem Harbor	1626_B_1	1.2	Yes	BA BB BD BE BG BH
Dickerson	1572_B_3	1.5	No	BA BB BD
Glen Lyn	3776_B_51	2.6	No	BA BB BD BE
Danskammer Generating Station	2480_B_3	1.1	No	BA BB
R E Burger	2864_B_5	9.0	No	BA BB BD BE BG BH
Mountaineer	6264_B_1	1.0	Yes	BA BB BD BE BG BH SA SB SD SE
Big Brown	3497_B_1	3.0	No	LA LD LE SA SB SD SE
Minnesota Valley	1918_B_4	4.0	No	BA BB BD BE SA SB SD SE
E D Edwards	856_B_1	4.7	No	BA BB BD BE BG SA SB SD SE
R Gallagher	1008_B_1	4.7	No	BA BB BD BE BG SA SB SD SE

Table 8.7 SO_2 Emission Factors of Coal Used in EPA Base Case 2006

Coal Type by Sulfur Grade	SO_2 Emission Factors by Coal Sulfur Grades (lbs/MMBtu)		
	Cluster #1	Cluster #2	Cluster #3
Low Sulfur Eastern Bituminous (BA)	0.70	0.67	--
Low Sulfur Western Bituminous (BB)	1.05	1.07	--
Low Medium Sulfur Bituminous (BD)	1.44	1.45	1.42
Medium Sulfur Bituminous (BE)	2.68	2.78	2.30
High Sulfur Bituminous (BG)	3.74	4.36	3.79
High Sulfur Bituminous (BH)	5.81	7.11	6.29
Low Sulfur Subbituminous (SA)	0.66	0.62	0.58
Low Sulfur Subbituminous (SB)	1.06	0.94	0.98
Low Medium Sulfur Subbituminous (SD)	1.41	--	--
Medium Sulfur Subbituminous (SE)	2.30	--	--
Low Sulfur Lignite (LA)	0.66	--	--
Low Medium Sulfur Lignite (LD)	1.54	1.61	--
Medium Sulfur Lignite (LE)	2.38	3.00	--
High Sulfur Lignite (LG)	3.91	--	--

Table 8.8. Carbon Dioxide Emission Factors of Coal in EPA Base Case 2006

Coal Type by Sulfur Grade	Carbon Dioxide Emission Factors by Coal Sulfur Grades (lbs/MMBtu)		
	Cluster #1	Cluster #2	Cluster #3
Low Sulfur Eastern Bituminous (BA)	203.80	203.00	--
Low Sulfur Western Bituminous (BB)	204.37	205.40	--
Low Medium Sulfur Bituminous (BD)	203.82	204.66	205.40
Medium Sulfur Bituminous (BE)	202.40	204.88	204.55
High Sulfur Bituminous (BG)	203.45	202.99	203.67
High Sulfur Bituminous (BH)	202.98	203.60	203.60
Low Sulfur Subbituminous (SA)	210.60	211.30	210.60
Low Sulfur Subbituminous (SB)	210.60	210.60	211.30
Low Medium Sulfur Subbituminous (SD)	210.95	--	--
Medium Sulfur Subbituminous (SE)	207.90	--	--
Low Sulfur Lignite (LA)	216.60	--	--
Low Medium Sulfur Lignite (LD)	216.60	211.40	--
Medium Sulfur Lignite (LE)	214.00	211.40	--
High Sulfur Lignite (LG)	211.40	--	--

Table 8.9. Mercury Emission Factors of Coal in EPA Base Case 2006

Coal Type by Sulfur Grade	Mercury Emission Factors by Coal Sulfur Grades (lbs/TBtu)		
	Cluster #1	Cluster #2	Cluster #3
Low Sulfur Eastern Bituminous (BA)	3.13	4.37	--
Low Sulfur Western Bituminous (BB)	4.44	19.10	--
Low Medium Sulfur Bituminous (BD)	5.11	8.94	21.67
Medium Sulfur Bituminous (BE)	25.83	16.21	7.80
High Sulfur Bituminous (BG)	23.36	7.10	15.72
High Sulfur Bituminous (BH)	7.58	15.20	34.71
Low Sulfur Subbituminous (SA)	3.54	4.24	5.61
Low Sulfur Subbituminous (SB)	4.22	6.44	6.25
Low Medium Sulfur Subbituminous (SD)	4.43	--	--
Medium Sulfur Subbituminous (SE)	6.44	--	--
Low Sulfur Lignite (LA)	9.88	--	--
Low Medium Sulfur Lignite (LD)	6.43	12.00	--
Medium Sulfur Lignite (LE)	7.81	14.65	--
High Sulfur Lignite (LG)	14.88	--	--

Table 8.10. Natural Gas Transportation Differentials for EPA Base Case 2006 (2004 Cents/MMBtu)

	AZNM	CA-N	CA-S	COMD	DSNY	ECAK	ECAM	ECAP	ENTG	ERCT	FRCC	LILC	MACE	MACS	MACW	MANO
2010	-31	15	5	32	103	50	17	45	20	-15	47	113	93	60	45	32
2015	-31	15	5	32	103	50	17	45	20	-15	47	113	93	60	45	32
2020	-31	15	5	32	103	50	17	45	20	-15	47	113	93	60	45	32
2025	-31	15	5	32	103	50	17	45	20	-15	47	113	93	60	45	32

	MECS	MRO	NENG	NWPE	NYC	PNW	RMPA	SNV	SOU	SPPN	SPPS	TVA	UPNY	VACA	VAPW	WUMS
2010	32	5	113	-56	113	-25	-64	-20	30	-29	-40	30	67	60	60	17
2015	32	5	113	-56	113	-25	-64	-20	30	-29	-40	30	67	60	60	17
2020	32	5	113	-56	113	-25	-64	-20	30	-29	-40	30	67	60	60	17
2025	32	5	113	-56	113	-25	-64	-20	30	-29	-40	30	67	60	60	17

Table 8.11. Seasonal Natural Gas Price Adders in EPA Base Case 2006 (2004 cents/MMBtu)

Winter	AZNM	CA-N	CA-S	COMD	DSNY	ECAK	ECAM	ECAP	ENTG	ERCT	FRCC	LILC	MACE	MACS	MACW	MANO
2010	0.00	-4.20	-4.20	2.12	8.53	2.13	2.13	2.13	0.00	-2.10	-6.40	10.67	6.40	5.33	6.40	2.13
2015	0.00	-4.20	-4.20	2.12	8.53	2.13	2.13	2.13	0.00	-2.10	-6.40	10.67	6.40	5.33	6.40	2.13
2020	0.00	-4.20	-4.20	2.12	8.53	2.13	2.13	2.13	0.00	-2.10	-6.40	10.67	6.40	5.33	6.40	2.13
2025	0.00	-4.20	-4.20	2.12	8.53	2.13	2.13	2.13	0.00	-2.10	-6.40	10.67	6.40	5.33	6.40	2.13

Summer	AZNM	CA-N	CA-S	COMD	DSNY	ECAK	ECAM	ECAP	ENTG	ERCT	FRCC	LILC	MACE	MACS	MACW	MANO
2010	0.00	5.33	5.33	-3.23	-8.58	-3.23	-3.23	-3.23	0.00	3.20	6.40	-11.70	-8.58	-7.47	-8.58	-3.23
2015	0.00	5.33	5.33	-3.23	-8.58	-3.23	-3.23	-3.23	0.00	3.20	6.40	-11.70	-8.58	-7.47	-8.58	-3.23
2020	0.00	5.33	5.33	-3.23	-8.58	-3.23	-3.23	-3.23	0.00	3.20	6.40	-11.70	-8.58	-7.47	-8.58	-3.23
2025	0.00	5.33	5.33	-3.23	-8.58	-3.23	-3.23	-3.23	0.00	3.20	6.40	-11.70	-8.58	-7.47	-8.58	-3.23

Winter	MECS	MRO	NENG	NWPE	NYC	PNW	RMPA	SNV	SOU	SPPN	SPPS	TVA	UPNY	VACA	VAPW	WUMS
2010	0.00	3.20	8.53	25.59	8.53	11.73	9.60	25.59	-1.10	1.07	1.07	0.00	4.27	8.53	8.53	2.13
2015	0.00	3.20	8.53	25.59	8.53	11.73	9.60	25.59	-1.10	1.07	1.07	0.00	4.27	8.53	8.53	2.13
2020	0.00	3.20	8.53	25.59	8.53	11.73	9.60	25.59	-1.10	1.07	1.07	0.00	4.27	8.53	8.53	2.13
2025	0.00	3.20	8.53	25.59	8.53	11.73	9.60	25.59	-1.10	1.07	1.07	0.00	4.27	8.53	8.53	2.13

Summer	MECS	MRO	NENG	NWPE	NYC	PNW	RMPA	SNV	SOU	SPPN	SPPS	TVA	UPNY	VACA	VAPW	WUMS
2010	0.00	-4.24	-8.58	-28.90	–11.70	-14.90	-13.80	-29.90	0.00	0.00	-1.11	0.00	-6.35	-10.70	-10.70	-2.12
2015	0.00	-4.24	-8.58	-28.90	–11.70	-14.90	-13.80	-29.90	0.00	0.00	-1.11	0.00	-6.35	-10.70	-10.70	-2.12
2020	0.00	-4.24	-8.58	-28.90	–11.70	-14.90	-13.80	-29.90	0.00	0.00	-1.11	0.00	-6.35	-10.70	-10.70	-2.12
2025	0.00	-4.24	-8.58	-28.90	–11.70	-14.90	-13.80	-29.90	0.00	0.00	-1.11	0.00	-6.35	-10.70	-10.70	-2.12

Table 8.12. US Wellhead and National Average Delivered Natural Gas Prices in the EPA Base Case 2006 (2004$/MMBtu)

Year	Wellhead Gas Price (at Henry Hub)	Delivered Gas Price
2010	5.90	6.12
2015	5.46	5.66
2020	5.29	5.49
2025	5.44	5.66

Table 8.13. Fuel Oil Prices in EPA Base Case 2006

Residual Fuel Oil Prices by NEMS Region (2004$/MMBtu)													
NEMS Region													
Year	ECAR	ERCOT	MAAC	MAIN	MAPP	NY	NE	FL	SERC	SPP	NWP	RA	CA
2010	4.86	6.55	5.44	6.46	5.39	4.83	4.32	6.33	5.59	5.71	6.88	6.87	7.50
2015	4.72	6.50	5.30	6.46	5.39	4.72	4.21	6.28	5.46	6.11	6.87	6.87	7.53
2020	4.95	6.85	5.64	6.74	5.67	4.95	4.43	6.63	5.88	6.40	7.10	7.09	7.66
2025	5.29	7.18	6.03	7.07	6.00	5.29	4.77	6.96	6.35	6.63	7.32	7.32	8.18

Distillate Fuel Oil Prices by NEMS Region (2004$/MMBtu)													
NEMS Region													
Year	ECAR	ERCOT	MAAC	MAIN	MAPP	NY	NE	FL	SERC	SPP	NWP	RA	CA
2010	9.03	8.83	8.90	9.00	8.92	8.93	8.97	8.80	8.98	8.85	9.70	10.30	10.09
2015	9.03	8.76	8.81	9.06	8.97	8.83	8.88	8.73	8.91	8.80	9.86	10.21	10.12
2020	9.60	9.35	9.38	9.63	9.51	9.40	9.44	9.32	9.54	9.38	10.28	10.55	10.50
2025	10.01	9.83	9.87	9.96	9.65	9.89	9.93	9.79	10.02	9.72	10.77	10.64	10.66

Table 8.14. Sulfur Dioxide (SO_2) Emission Factors of Fuel Oils in EPA Base Case 2006

Fuel	SO_2 Emission Factors (lbs/MMBtu)
Residual Fuel Oil	1.04
Distillate Fuel Oil	0

Appendix 8-2. Technical Background Paper on the Development of Natural Gas Supply Curves for EPA Base Case 2006

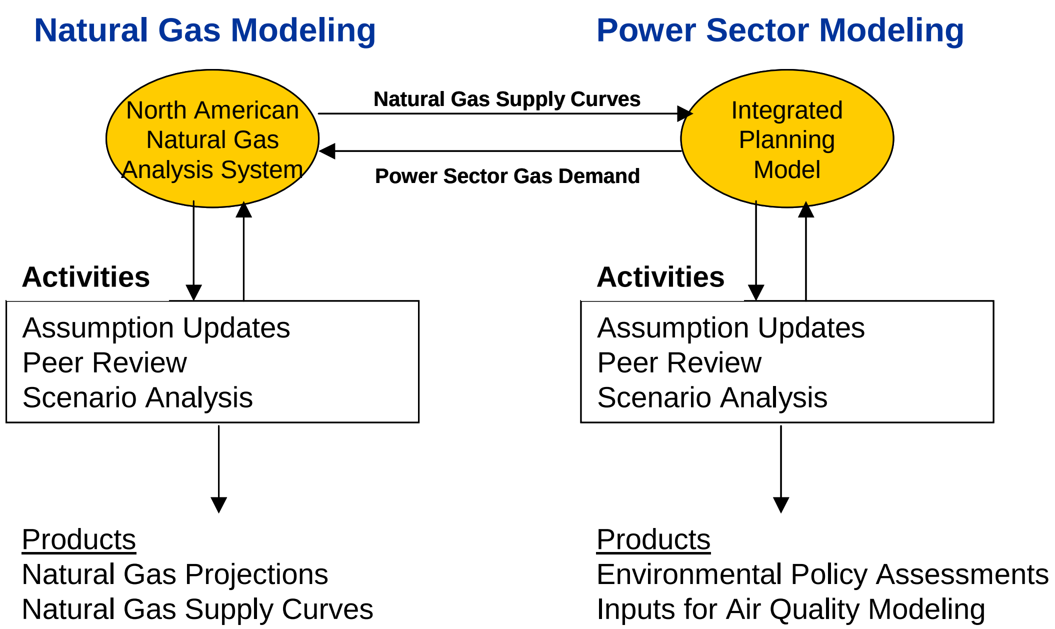
Prepared by ICF International

1. Introduction
2. Brief Synopsis of NANGAS
3. NANGAS Enhancements, Revisions, and Updates for EPA Base Case 2006
4. Resources Data and Reservoir Description
5. Treatment of Frontier Resources
6. E&P Technology Characterization
7. Fuel Prices
8. End-Use Demand Characterization
9. Discussion of Final NANGAS Results
10. Supply and Non-Electric Demand Curves and Transportation Adders

1. Introduction

One of the primary tools that EPA's Clean Air Markets Division uses to evaluate air emissions policies is the Integrated Planning Model (IPM). IPM, a large linear program of the electric power sector, provides a detailed representation of power plant characteristics, operating regimes, plant dispatch, fuel use, and air emissions. IPM is used to evaluate the economic and emissions impact of alternative air emissions policies. IPM forecasts over a 20-25 year time horizon. A key input to IPM is the price of natural gas. IPM's gas price assumptions are developed using the North American Natural Gas Analysis System (NANGAS). Like IPM, NANGAS is a large-scale linear programming model that incorporates a detailed representation of gas supply characteristics, demand characteristics and an integrating pipeline transportation model to develop forecasts of gas supply, demand, prices and flows. Exhibit 1 shows the interaction of IPM and NANGAS.

Exhibit 1: IPM/NANGAS Interaction



The two models are operated in tandem and are iterated to develop a consistent Henry Hub gas price and total gas demand forecast. IPM uses natural gas data in electric market modeling as follows:

- IPM takes the natural gas supply curves and non-electric demand curves, which are developed within NANGAS and specified as a function of Henry Hub prices.
- The seasonal and annual natural gas transportation differentials are added to the supply and non-electric demand curve elements to generate the final delivered curves by IPM region.
- IPM finds the electricity demand for gas. To this is added the non-electric demand. The resulting combined demand is used with the supply curve to find the clearing price for gas.

- IPM's linear programming formulation takes into account these curves as well as coal supply curves and detailed electric power plant modeling in determining electric market conditions associated with the optimal (least cost) solution. Oil usage is modeled as a function of price which is exogenously supplied to IPM.

This report is divided into the following sections. The report starts with a brief synopsis of NANGAS, the primary tool used for generating the supply curves. It will then discuss some enhancements, revisions, and updates that were made to NANGAS modeling as well as the procedure to generate supply and non-electric demand curves for the EPA Base Case 2006. This is followed by detailed discussions of modeling methodologies and data used in NANGAS. The methodologies and data description are grouped in the following six sections:

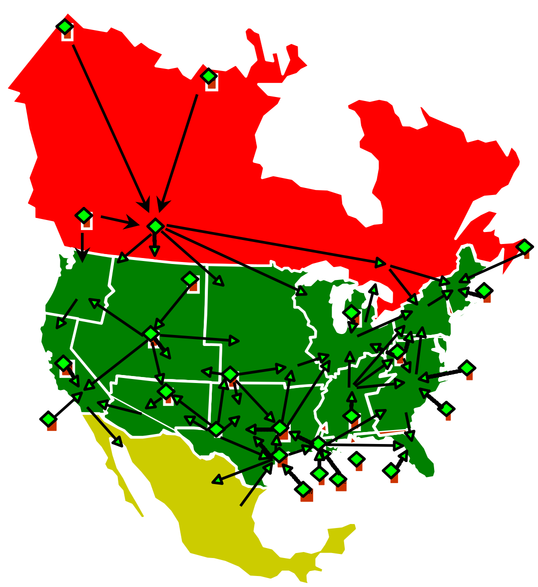
i) Resources data and reservoir description
ii) Treatment of frontier resources
iii) Exploration and Production (E&P) technology characterization
iv) Fuel prices (oil, coal)
v) End use demand characterization

This is followed by discussion of natural gas results and supply curves used for EPA Base Case 2006.

2. Brief Synopsis of NANGAS

ICF's integrated natural gas model, NANGAS, is designed to perform comprehensive assessments of the entire North American gas flow pattern. It is a large-scale dynamic linear program that models economic decision-making to minimize the overall cost of meeting natural gas demand.

Exhibit 2: Geographic Coverage of NANGAS



Important features of NANGAS are described below.

Natural Gas Market Prices in NANGAS are calculated based on the concept of "shadow prices". The model's material balance constraints calculate this shadow price indicating "How much better would the natural gas grid be with one additional unit of gas." These calculations take into account all regions and future years simultaneously in minimizing the cost of meeting demand. The calculations reflect the value of each potential activity that could be performed relative to adding one unit of gas or reducing one unit of demand to arrive at a "marginal activity".

Reservoir level analysis uniquely evaluates exploration, development and production at the level of over 20,000 individual reservoirs and undiscovered accumulations. NANGAS is distinguished by its detailed representation of reservoirs and reservoir characteristics and the use of type-curves to generate production profiles from the economics and technologies of production. (Type-curves are curves that are typically used in well testing to represent trends in pressure transient responses with different, layered geological structures.)

E&P technology performance is modeled by simulating the effect of E&P technologies on ultimate gas recovery and production profiles. Potential improved technologies and practices are characterized as explicit changes in reservoir or economic parameters. This approach is designed to allow for detailed assessments of future potential from individual reservoirs and to allow explicit changes to the technology be represented consistently across various practices for the entire North American resource.

Regional demand is modeled on a sectoral and seasonal basis, including the role gas storage can play in meeting gas demand. Demand is primarily represented by Census region. Some regions are further disaggregated in more detail either by state or regions within states. Demand is represented within each of its 26 regions as a load duration curve with four seasons.

End use demand is modeled for residential, commercial, industrial and electric utility sectors. Econometric equations define demand by sector. Industrial and electric sectors incorporate fuel competition, dispatch decisions, and new power plant builds. NANGAS iterates with IPM to better capture electric sector demand for natural gas.

Electric generation is modeled regionally with plant dispatch based upon operating cost. Competing power generation technologies are evaluated on a full-cost basis to determine lowest cost capacity additions.

Transportation is modeled by 139 transportation links between supply and demand regions, balancing seasonal, sectoral, and regional demand and prices, including pipeline tariffs and capacity allocation. The pipeline network is largely represented as bundles of pipes (pipeline corridors), though in some regions individual pipes are represented. Gas moves over the network at variable cost. Pipeline expansion levels are modeled either as specified user input to the model or, alternatively, the user can let the model expand capacity endogenously whenever the market justifies expansion.

NANGAS is developed and maintained by ICF for use by both private as well as public sector clients. It is routinely updated and has been used to examine strategic issues relating to natural gas supply, pipeline infrastructure, pricing, adequacy, and demand characteristics.

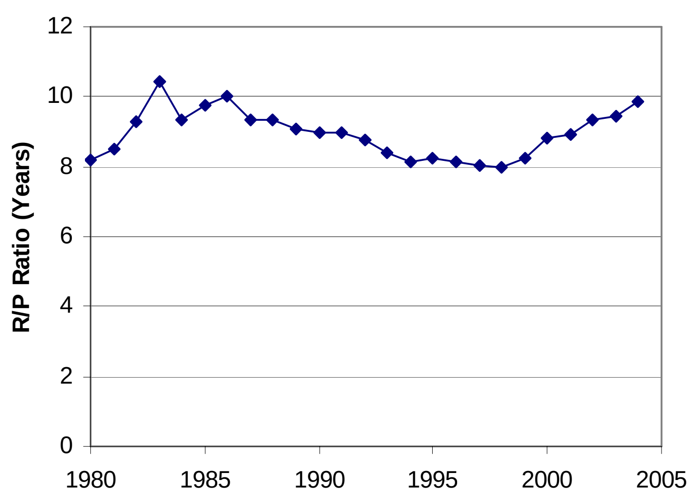
3. NANGAS Enhancements, Revisions, and Updates for EPA Base Case 2006

Natural gas supply curves and non-electric power (i.e. residential, commercial, and industrial) demand curves for the EPA Base Case 2006 were generated using ICF's proprietary modeling tool NANGAS. The new curves were based on modifications in some of the assumptions and the procedure of creating the curves as well as the modeling of gas supply and demand in NANGAS. This section discusses key enhancements, revisions, and updates to NANGAS that differentiate the EPA Base Case 2006 from the previous version EPA Base Case 2004.

Production Decline Rate for Existing Wells

Based on recent historical experience the existing wells decline rate was increased to 10% corresponds to a non-associated gas reserves-to-production (R/P) ratio of 11 years, consistent with recent trends (See Exhibit 3). This resulted in reduced production from existing wells, increased production from higher cost gas resources, and made the NANGAS near-term price forecast more consistent with recent higher gas prices.

Exhibit 3: U.S. Non-Associated Gas R/P Ratio



Source: Energy Information Administration

Near Term Price Elasticities for Gas Demand in Residential and Commercial Sectors

The near-term price elasticity in the residential and commercial sectors was reduced as shown in Exhibit 4 to better reflect the near term relative inelasticity of demand to price. This brought gas demand in the non-electric power sectors closer to actual historical levels (Exhibit 5).

Exhibit 4: Price Elasticity in Residential and Commercial Sectors

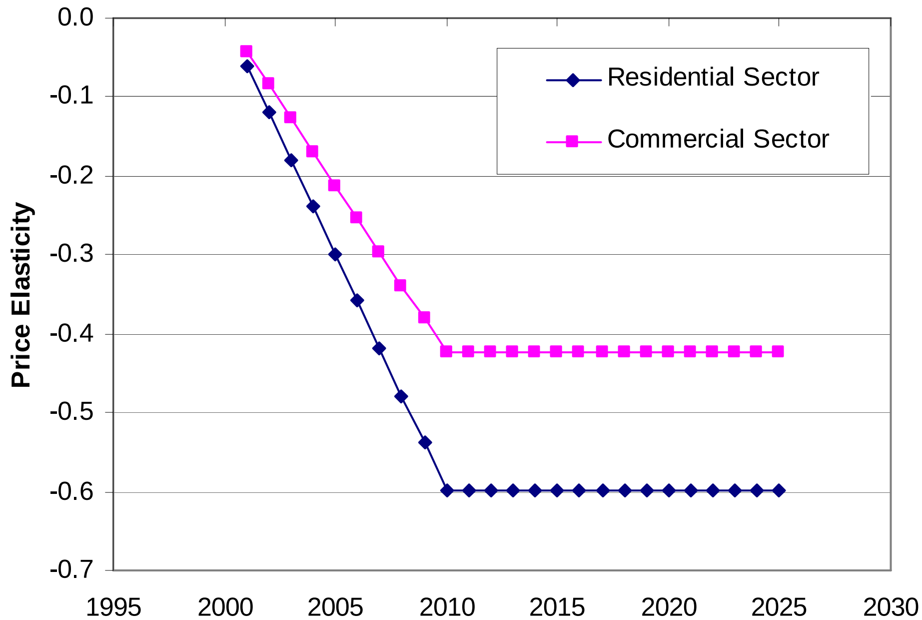


Exhibit 5: Lower-48 Gas Demand (in TCF) in Non-Electric Power Sectors

	NANGAS, Original R/P Ratio, Original Price Elasticities		NANGAS, Adjusted R/P Ratio, Adjusted Price Elasticities		Historical (EIA)	
	2003	2004	2003	2004	2003	2004
Residential	4.7	4.7	4.9	4.8	5.1	4.9
Commercial	3.1	3.1	3.2	3.1	3.2	3.0
Industrial	7.9	8.1	7.3	7.3	7.1	7.4
Total Non-Electric Power	15.7	15.8	15.4	15.2	15.4	15.3

LNG Trigger Price

LNG trigger prices (minimum acceptable price for landed LNG at the outlet of the receiving terminal covering costs, including profit, of feed gas, liquefaction, shipping, and regasification) in the EPA Base Case 2004 were assigned at constant values (not time dependent) between $2.50/MMBtu and $3.50/MMBtu (in 2003$). In the new EPA Base Case 2006, the relationship between LNG trigger prices and oil prices was differentiated based on the following three market periods:

1. **Cost Based Pricing**. A period between 1970 and 2005 where the stranded gas supply from the exporting countries is available at full cost. Within this period, the LNG trigger price is assumed constant at $3.9/MMBtu (2003$).

2. **Transition**. A period (2005 and 2015) with expanding LNG markets and increasing LNG trade and infrastructure (such as liquefaction plants, LNG tankers, and regasification facilities). In this period, the LNG trigger price will increase gradually from \$3.9/MMBtu in 2005 to a price in 2018 when the LNG and oil prices are completely linked.

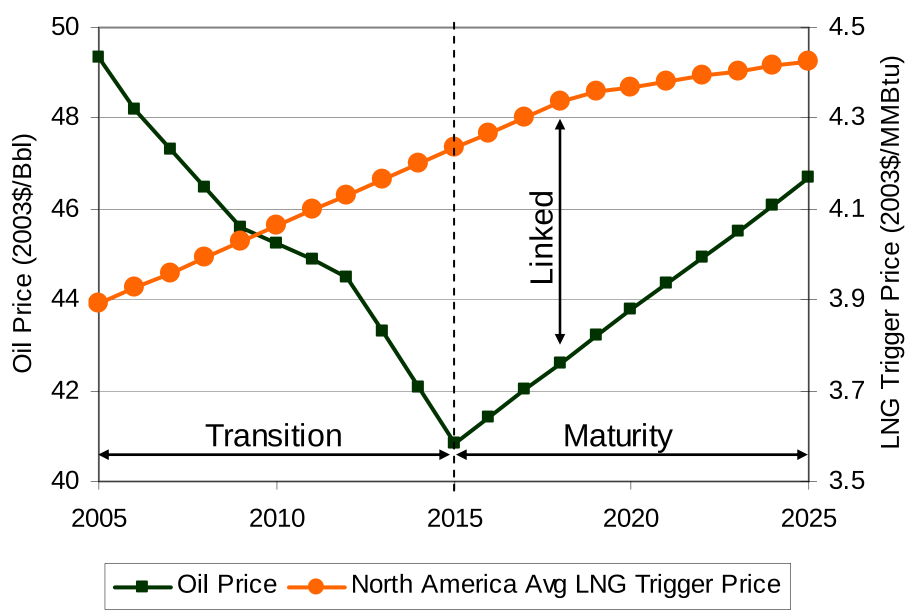
3. **Opportunity Pricing**. This period is expected to begin in 2015 when LNG markets are entering maturity. A gradual increase in the LNG trigger price will continue until 2018 and then it will start tracking oil prices due to expansion in trade in Asia where gas is fungible with oil in combined-cycle power plants. The LNG trigger price starting from 2018 is calculated using the following correlation:

$$LNG\,(\$/MMBtu)_y = \frac{\sum_{i=y}^{2025} Oil\,(\$/Bbl)_i \left(\frac{1}{1+r/100}\right)^{i-y}}{\sum_{i=y}^{2025} \left(\frac{1}{1+r/100}\right)^{i-y}} * 0.11 + 1$$

Where:

y	Year
r	Discount rate

Exhibit 6: Link between LNG Trigger Price and Oil Price



Basis Differentials

All regional basis differentials (difference in regional gas price and Henry Hub) were reviewed and updated to reflect recent trends. In some cases this resulted in higher spreads; in others the spreads were lowered. Also, based on ICF's recent market analysis, the in-region adders were updated from $0.07/MMBtu to $0.15/MMBtu. In-region adders reflect the charges for moving gas within a region on transmission pipelines, on a pipeline lateral, and over pipelines maintained by local distribution companies(LDCs).

Exhibit 7: Basis Differentials

IPM Region	Gas Hub	Basis Differential (2003$/MMBtu)
NENG	Ave. TN-6 AGT CG	$ 1.10
DSNY	IRQ-2	$ 1.00
UPNY	Niagara+	$ 0.65
NYC	Transco-6	$ 1.10
LLIC	Transco-6	$ 1.10
MACE	TETCO-M3	$ 0.91
MACW	Columbia Hub	$ 0.44
MACS	Transco-5	$ 0.58
VAAW	Transco-5	$ 0.58
VACA	Transco-5	$ 0.58
SOU	Transco-4	$ 0.29
FRCC	FCG	$ 0.46
TVA	TETCO-M1	$ 0.29
ECAK	Columbia Hub	$ 0.49
ECAP	Dom. NP	$ 0.44
MECS	MichCon CG	$ 0.31
ECAM	Chicago CG	$ 0.17
WUMS	ANR ML 7	$ 0.17
MANO	Chicago CG +	$ 0.31
ENTG	TGT-1	$ 0.19
ERCT	Ave. Texas	$ (0.15)
SPPS	ANR-OK+Reliant E	$ (0.39)
SPPN	NGPL-Mid	$ (0.28)
MRU	Northern Vent. --	$ 0.05
RMPA	Cheyenne Hub +	$ (0.62)
AZNM	EP Perm. +	$ (0.30)
NWPE	NW Wyo. Pool +	$ (0.55)
PNW	NW CG/Stanfld	$ (0.24)
CA-N	PG&E CG	$ 0.15
CA-S	PG&E S/Socal	$ 0.05
SNV	Opal +	$ (0.19)

Coal Power Plant Builds in NANGAS

The general procedure to generate the gas supply and non-electric power demand curves using NANGAS for the EPA Base Case 2006 is similar to that for the EPA Base Case 2004. In this procedure, NANGAS is run several times, each with different electricity growth rate to generate several points along the curves. A log-log curve-fitting procedure is then applied to these points to generate supply/price and non-electric power demand/price relationships. The electricity growth rates are set wide enough to cover a gas price range needed for electric power modeling in IPM. Low electricity growth rates will result in low gas demand in the electric power sector and hence low gas prices. Higher electric growth rates will result in higher gas demand in the electric power sector and lead to higher gas prices. Since NANGAS also has electric power modeling capabilities (in a simplified form), the high gas prices in the case with high electric growth rates resulted in new coal power plants being built in some regions which in turn reduce the overall natural gas consumptions in these regions. Although the procedure creates gas curves with consistent trend, it creates inconsistency in IPM because power plant building decisions have already been made within NANGAS which may not be consistent with the more robust electric power modeling algorithms in IPM. For EPA Base Case 2006, the procedure was modified so that all coal power plant builds occurred in IPM, not in NANGAS.

4. Resources Data and Reservoir Description

In 2003, NANGAS underwent an extensive peer review process examining its analytic framework, modeling methodologies, and data. In response to peer review comments, ICF revised and updated the resource module in NANGAS, to incorporate new data on resources, reserves, and reservoir parameters for the L-48 states and Canada. In 2004, the updated model was used to generate the supply and non-electric demand curves for the EPA Base Case 2004. The EPA Base Case 2006 was also based on the same model as new resource and reserves assessments were not yet available.

Undiscovered resource data used in NANGAS are consistent with the latest available resource assessments conducted by governmental and private agencies within U.S. and Canada. A complete update to the undiscovered natural gas resource base for the Western Canada Sedimentary Basin (WCSB) and key regional updates within US were completed as new data became available in years 2002 and 2003. For the US, the primary data sources were the United States Geological Survey (USGS) and Minerals Management Service (MMS). For Canada ICF investigated the conventional resources assessment of the Canadian Gas Potential Committee (CGPC), and unconventional resources assessments published by the Alberta Energy Utilities Board (AEUB), publicly available reports and the provincial energy departments for Saskatchewan and British Columbia.

A particular area of update was the estimate of undiscovered resource base attributed to conceptual geologic plays in Canada. A conceptual play (or hypothetical play) is a geologic play that has not yet been 'proved by commercial oil and gas production.' A conceptual play in Canada may have had some exploratory drilling and discoveries of non-commercial accumulations. Re-estimation and re-interpretation of existing data as well as availability of new data in year 2003 by CGPC and the National Energy Board (NEB) of Canada indicates significantly lower estimate for these plays than previously estimated.

Before describing the details of resources data used in NANGAS, it is important to explain the E&P forecasting methodology used in NANGAS. This discussion helps in understanding the resources data requirements for NANGAS and the rationale behind the resources data collection efforts.

Field Development and Production Forecast Methodology in NANGAS

Field development and production forecast methodology in NANGAS is as follows: Total resources are estimated for individual geologic plays. The undiscovered resources for each geologic play are distributed among size classes. Fields are discovered and developed subject to economic and reservoir and production engineering constraints. Reservoir engineering constraints are determined by the resource type and reservoir parameters such as porosity, permeability, pay thickness, water saturation, and reservoir area.

The NANGAS resource module estimates average reservoir parameters (such as porosity, permeability, water saturation, thickness, areal extent, reservoir pressure, etc.) for discovered (known) reservoirs and extrapolates these average reservoir parameters to undeveloped (unknown) reservoirs in the same or comparable geologic play. A production history match is obtained for developed reservoirs in producing fields utilizing production type curves for specific resource types (such as conventional, tight gas, coalbed methane, naturally fractured, etc.). These production type curves are also used to project future production from discovered reservoirs. The production type curves are also applied to undiscovered resources to generate typical production profiles based on estimated resource type, average reservoir properties and E&P technologies. Use of this approach helps in quantifying production potential based on reservoir depth, quality, and size as well as E&P technology.

The most important assumption influencing the production forecast is the resource size and the distribution of the undiscovered resource base into field or pool size classes and the economic field size class cutoff. Special efforts were taken to determine an accurate distribution of resources within appropriate size classes.

L-48 U.S. Resources and Reserves

This section describes the U.S. resource data sources and methodology used in NANGAS for EPA Base Case 2006. The primary data source for the undiscovered resource base in NANGAS is the comprehensive national resource estimate completed by USGS in the year 1995. Resource data in NANGAS was updated to be consistent with the recently revised USGS resource assessments for nine oil and gas producing basins in the Rocky Mountain, Appalachia, and the states of Mississippi and Alabama. This update reduced the undiscovered resource base by 61 Tcf than previously estimated by USGS in 1995, and redistributed undiscovered resources between conventional, coalbed methane, and tight resource types in the Rockies and Appalachia consistent with latest USGS estimates. Exhibit 8 summarizes the U.S. Lower-48 undiscovered resource base used in NANGAS.

Exhibit 8: Undiscovered Resource by Play

Resource Type	Undiscovered Recoverable Resources, Tcf	Number of Plays
L-48 Onshore Conventional (non-associated)	137	230
L-48 "Tight"/ Continuous	208.2	28

L-48 Coalbed Methane/ Fractured Shale	119.9	47
Total L-48 Onshore	**465.1**	**305**
Offshore (Gulf of Mexico OCS)	192.9	17
Associated Dissolved Gas	85.0	NA
Total U.S. Lower –48	**743.0**	**322**

USGS and MMS Resource Assessments. NANGAS incorporates the 1995 USGS assessment of undiscovered resources for the onshore lower-48 states reported in the *1995 U.S. National Assessment of Oil and Gas Resources*. The geologic plays, supply producing areas and supply regions identified in the 1995 National Assessment provide the underlying structure for the resource database for the onshore U.S. The USGS is in the process of revising the National Assessment and as of the fourth quarter of 2003. New resource assessments were completed and available for nine onshore basins: Appalachian Basin, Powder River Basin, Denver Basin, Florida Peninsula, Montana Thrust Belt, Powder River Basin, San Juan Basin, Southwestern Wyoming, and Uinta-Piceance Basin. In addition, the new National Assessment incorporates the latest concepts in basin stratigraphy and petroleum-producing systems. As a result, the unit of the 'geologic play', which rolled-up to a 'geologic province' in the 1995 National Assessment has been replaced by 'assessment units' that comprise 'total petroleum systems' within geologic basins. An assessment unit in the new 2005 National Assessment corresponds approximately to a geologic play. Although the new USGS National Assessment will not be completed until late 2005, the new data for the completed basins were obtained and incorporated into the model for this effort. NANGAS will be updated periodically with the latest USGS resource assessments for individual basins as they become available.

For the Gulf of Mexico Outer Continental Shelf (OCS), NANGAS incorporates the estimated undiscovered recoverable resources from the U.S. Minerals Management Service *2000 Assessment of Oil and Gas Resources of the Outer Continental Shelf*. A methodology was developed that distributed these undiscovered resources into seventeen geographical plays defined by water depth and Gulf of Mexico Planning Area. The MMS is currently updating the OCS resource assessment, which is expected to be available in 2006 and will be incorporated in future versions of NANGAS. Currently, resources from emerging deep shelf gas plays in the Gulf of Mexico are not included in NANGAS as detailed data has not been published by MMS. An MMS press release from November 2003, however, estimates that undiscovered resources for deep shelf gas range from 5 trillion cubic feet (Tcf) to 20 Tcf.[1] The next version of the model will include resources in the deep shelf plays when additional data becomes available.

Crosswalk Geologic Plays and New USGS Assessment Units. The resource base in the model contains all of the results of the USGS 2005 National Assessment that were available to the public in late 2003. The changes to the undiscovered resource base are most apparent in the Appalachian and Rocky Mountain supply regions. The first step to incorporate the new USGS resource assessments was to crosswalk the geologic plays

[1] United States Minerals Management Service Press Release, *Deep shelf gas may be more abundant in Gulf than earlier forecast*, Press Release Number 3012, November 19, 2003. United States Minerals Management Service, 2003, *Gulf of Mexico OCS Deep Shelf Gas Update: 2001 – 2002.*

in NANGAS with the ‘assessment units’ identified in the 2003 resource assessments. There is often a one-to-one correspondence between the geologic plays defined in 1995 and the 2003 assessment units. In some cases, the 1995 geologic plays are omitted in the 2003 assessment, or are combined with other plays to correspond to a single assessment unit. In other cases, completely new assessment units are defined in 2003, which do not correspond to any 1995 geologic plays. The new USGS resource assessments were incorporated into NANGAS by creating a crosswalk between geologic plays and the 2003 assessment units. Once geologic plays and assessment units were matched, the estimated resources for the assessment units replace the resources associated with the corresponding geologic plays. Some geologic plays were deleted, others were combined, and new assessment units were added.

The new USGS National Assessment replaces the resource type of ‘tight’ or ‘low-permeability’ gas sands, with the concept of ‘continuous’ resources, which may be fractured gas shales, or low permeability sandstone and carbonate reservoirs. Continuous resources are extensive; contain no obvious structural component or downdip gas/ water contact; are often abnormally pressured; and are economically developed using large numbers of closely-spaced producing wells and well stimulation techniques such as hydraulic fracturing. The resource types for the new USGS assessment units are designated as ‘conventional’, ‘continuous’, or ‘coalbed methane’. Each new assessment unit incorporated in NANGAS is assigned as either coal/ fractured shale, tight, or conventional. USGS assessment units designated as a ‘continuous’ were re-designated either as ‘tight’ or ‘coal/fractured shale’, in NANGAS depending upon the primary reservoir lithology of the assessment unit. The new USGS resource assessments show significant shifts in undiscovered resources between resource type categories in some producing basins, compared to the 1995 National Assessment. Conventional undiscovered resources are reduced in many plays and some hypothetical conventional plays are deleted. A few significant new conventional plays are added in the Montana Thrust Belt. Undiscovered coalbed methane resources are increased substantially in the Rocky Mountain region and Appalachian Basin compared to the 1995 National Assessment and continuous resources attributed to tight gas plays are reduced significantly compared to the 1995 National Assessment.

Field Size Distribution. For conventional resource plays or assessment units, the new USGS assessment continues to estimate a minimum, maximum, and median field size for undiscovered hydrocarbon accumulations in the play. The new USGS minimum, maximum, and median field size classes (FSC) were compared with the NANGAS field size distributions for corresponding geologic plays. The field size distributions for conventional resources in NANGAS compared favorably with the minimum, maximum, and median field size classes estimated by the USGS. In a few conventional plays the field size distribution appeared to be shifted towards larger field sizes in NANGAS compared to the new USGS assessment unit corresponding to the play. For these conventional plays, the internal field size distribution procedure was modified so that the maximum undiscovered field size in the NANGAS distribution does not exceed the maximum undiscovered field size class estimated by the USGS for the corresponding assessment unit.

The new USGS resource assessment does not apply the concept of a producing field to continuous and coalbed methane resource types. Instead, the remaining undiscovered resource is divided into conceptual cells representing the minimum, maximum, and median volume of reservoir that could be drained by a single well. The minimum, maximum, and median estimated ultimate recovery (EUR) is estimated for each cell, in addition to the drainage area (or well spacing) represented by a single cell. The cell EURs do not correspond directly to field size class or the field size distributions used in NANGAS for tight or coalbed methane plays. For unconventional plays, undiscovered resources were distributed in categories (or classes) by assuming a typical field containing 24 wells. This was found to be generally reasonable for most plays, compared to the corresponding USGS assessment units. Individual well spacing assumptions were reduced to reflect current production practices.

Reservoir Properties. The discovered reservoir database in NANGAS contains average reservoir parameters for known reservoirs in a geologic play. The average reservoir parameters from discovered producing reservoirs in a play are applied to undiscovered reservoirs in the play so that production can be projected using production type curves and a production history match. If porosity or permeability is unknown or unspecified for an undiscovered reservoir, the missing parameter is estimated using a porosity-permeability correlation. While a comprehensive re-evaluation of reservoir parameters in the NANGAS reservoir databases was not completed, some reservoir parameters were updated as new data were provided by the new USGS resources assessments. The updated reservoir parameters included average reservoir depth, more complete data on gas composition and impurities, and percent of federal land in the play.

While there are inherent limitations and uncertainties in estimating average reservoir parameters for known producing reservoirs and applying these parameters to undiscovered resource base, ICF has found that it is a better approach than applying econometrically determined finding rates or reserves-to-production (R/P) ratios. This approach is also useful to correctly model the impacts of technology improvement and certain policy initiatives influenced by technology. ICF recognizes that in modeling the long-term development of resources, smaller fields are found in the future as larger fields are discovered and developed first. Reservoir properties of smaller fields may not be same as the larger fields, so the average reservoir parameters applied to small fields such as permeability, porosity, and water saturation should be adjusted over time, which would impact the field production profiles. This issue may be particularly important in some mature conventional producing regions such as the Permian Basin and Gulf Coast, which are experiencing rapid depletion of smaller fields in some plays. ICF tested this idea with some limited sensitivity analyses in which the reservoir quality of smaller undiscovered fields was reduced in selected regions. While changing the reservoir parameters for undiscovered reservoirs did impact (and reduce) projected production, the impacts of other model adjustments, such as resource base and their size distribution, were more significant.

U.S. Reserves and Reserve Growth. The 1995 USGS National Assessment estimates that approximately 294 Tcf of the U.S. resource base will come from reserves growth of existing fields. Approximately 200 Tcf of reserve growth will be from onshore non-associated gas production in the Lower-48 states. The U.S. MMS estimates that 67 Tcf of future resources will be contributed by reserve growth in existing offshore fields in the OCS. The reserve growth resources in NANGAS are consistent with the USGS and MMS estimates. Reserves are booked as a function of development drilling.

Canada Resources and Reserves

This section describes the Canadian resource data sources and methodology. The NANGAS methodology for projecting production from discovered and undiscovered resources of the WCSB is similar to the methodology for projecting production from the U.S. resource base. Total resources are estimated for individual geologic plays. The undiscovered resources for each geologic play are distributed among field size classes. Fields are discovered and developed subject to economic and reservoir and production engineering constraints. The reservoir engineering constraints are determined by the resource type and reservoir parameters such as porosity, permeability, pay thickness, water saturation, and reservoir area.

Other gas-producing regions in Canada, such as the Mackenzie Delta and offshore Atlantic including Sable Island, are handled in the model as exogenous gas supply projects. The production forecasts for these regions are based on current and expected project capacity and planned project expansions. They are explained in detail in a separate section of this report.

Exhibit 9 summarizes the WCSB resource base used in NANGAS.

Exhibit 9: Undiscovered Resources in WCSB

	Undiscovered Resources, Tcf (Original Gas in Place)	**Number of Plays**
Conventional Established Plays	133.4	79
Conventional Conceptual Plays	40	8
'Tight' Gas/ Continuous	206	15
Coalbed Methane	192.3	24
Total	**572**	**126**

In this effort, a substantial redistribution of undiscovered resources among the various resource type categories has been conducted consistent with published recent estimates by the CGPC. Estimated undiscovered resources in conventional conceptual plays[2] have decreased by more than 50% than previously estimated. In part, this is because the recent CGPC resource assessments represent a more conservative view of hydrocarbon resources in conceptual plays. Also, some conceptual plays in earlier WCSB resource assessments now have proved commercial gas production and have moved to the category of established plays. Estimated unconventional (tight gas and coalbed methane) resources have increased by 50% than previously estimated based on better data and analyses completed by various Canadian agencies and private firms.

Conventional Resources in Established Plays. A complete update of the undiscovered resource base was completed. ICF acquired the most recent resource assessment for the WCSB published by the CGPC[3] report and updated undiscovered resources data for established plays in WCSB. The new version of the CGPC report will not available until May 2006.

[2] Conceptual plays have not been proven to contain commercial hydrocarbon accumulations. Most conceptual plays have been explored to some extent, but no producing fields have been established.
[3] Canadian Gas Potential Committee, 2001, *Natural Gas Potential in Canada – 2001,* Calgary, Alberta.

The reservoir database in the model is updated with reservoir parameters provided for each play in the CGPC report. Following is a list of updated reservoir parameters that are captured in the reservoir database:

- Average Recovery Factor
- Porosity
- Water Saturation
- Temperature Gradient
- Gas Gravity
- Average Z Factor
- Depth
- Pay Thickness
- Formation Volume Factor
- Reservoir Pressure Gradient
- Heat Value
- Gas Composition

Total conventional undiscovered resources in established plays are 133.4 Tcf and are distributed to field size class categories using the modified Arps-Roberts methodology.

Conventional Resources in Conceptual Plays. Conceptual plays are geologic plays that have no significant discoveries to date, but do have favorable geologic features for oil or gas production. Many conceptual plays have been tested with exploratory drilling and may have non-commercial discoveries. The 2001 CGPC identifies six conceptual plays in the WCSB, but provides no quantitative assessments of the resource potential. NANGAS currently assumes 40 Tcf of resource in eight conceptual plays for the WCSB, including six conceptual plays identified in the 2001 CGPC study and two conceptual plays identified in the earlier Geological Survey of Canada (GSC, 1993) resource assessment. The 40 Tcf of resource assumed for conceptual plays represents the difference between the 2001 CGPC assessment of total undiscovered resources in the Western Canada Sedimentary Basin (133.4 Tcf) and an alternate view of undiscovered WCSB resources (174 Tcf) presented by the Canadian Energy Resource Institute (CERI).[4] The 40 Tcf of resources in conceptual plays is distributed equally among the eight conceptual plays. Reservoir parameters for the eight conceptual plays are estimated from known analogous geologic plays.

Tight Gas/Continuous Resources. The definition of 'tight' gas reservoirs in Canada has not been established by a governmental entity, as is the case in the United States. 'Tight' or 'continuous' resources are not limited to reservoirs with average permeability less than 0.1 millidarcy, but are generally defined as regionally extensive reservoirs that are sub-economic using normal completion and production standards. Most tight reservoirs in the WCSB have been identified in the deep basin areas as regionally pervasive, thick, gas-saturated reservoir sequences that have abnormal reservoir pressures and no apparent downdip gas/water contact. Three known tight gas regions in the WCSB include:

- Deep Basin; stacked Mesozoic clastic reservoirs
- Foothills, Disturbed Belt; naturally fractured low-permeability reservoirs

[4] CERI maintains that the Canadian Gas Potential Committee (CGPC) was too conservative and excluded a number of areas in the WCSB "thought to have reasonable prospects for natural gas." CERI commissioned a study to re-evaluate the WCSB undiscovered resource base, incorporating both the 2001 CGPC study and the earlier Geological Survey of Canada (GSC) work, with an emphasis on the assessment of gas-in-place for conceptual plays. The reference for the 40 Tcf undiscovered resources attributed to conceptual plays is *Canada's Ultimate Natural Gas Potential-Defining a Credible Upper Bound*, Drummond Consulting, March 2002 as reported in *Potential Supply and Costs of Natural Gas in Canada*, Canadian Energy Research Institute, 2003.

- Northern Plains; areally-extensive, shallow reservoirs with subtle natural fractures and no apparent local structure; require hydraulic fracturing and horizontal drilling

Few play-level assessments of the resource potential of tight gas reservoirs in the WCSB are publicly available, although this situation changing. The tight gas/continuous resource update was completed which includes gas-in-place for fifteen identified tight geologic plays.[5] The gas-in-place estimated for the individual plays ranges between one and three billion cubic feet (Bcf) per square kilometer. A low estimate and a high estimate of gas-in-place were provided for each play. NANGAS currently contains the low estimate of 206 Tcf for the tight gas resource base; the total high estimate for total tight gas resources is 546 Tcf. The low estimate is more reasonable because the WCSB has very little production from tight reservoirs. As tight gas development will continue to progress in the future, the estimated resource base and its characterization will be revised, and a larger tight gas resource base may be justified.

Coalbed Methane. The current update greatly improves the representation of the WCSB coalbed methane resource base in NANGAS, drawing upon recent geologic analysis of coalbed methane plays and recent resource assessments by the CGPC and provincial energy agencies in Alberta and British Columbia.[6] Twenty-four coalbed methane plays are specified in the model, ten in Alberta and twelve in British Columbia. Little data are available for reservoir parameters besides reservoir depth and gas content. Typical default parameters (langmuir pressure, langmuir volume, sorption time, pressure, permeability, thickness, porosity etc.) are used based on coalbed methane resources located in the U.S. These will be updated as reservoir specific and basin specific data become available in the future. A low estimate and a high estimate of gas-in-place were provided for each play. EPA Base Case 2006 currently contains the low estimate of 192 Tcf for the coalbed methane resource base; the high estimate for coalbed methane resources is 294 Tcf. As more coalbed methane activities are conducted in Western Canada, the data and size of the resource base will be revised.

5. Treatment of Frontier Resources

In addition to the traditional sources of natural gas resources as described in the Resources Data and Reservoir Description section, NANGAS also contains resources located in frontier regions. These frontier resources (or project level supplies) are used to model large projects, which can have dramatic impact on prices in the near term. Frontier resources for this modeling effort include Alaska North Slope, Mackenzie Delta, Sable Island, and LNG. We do not start from the resource base in these categories and

[5] *Exploration Assessment of Tight Gas Plays, Northeast British Columbia*, 2003, Petrel Robertson Consulting, Calgary, AB and Hayes, 2003, The Deep Basin- A Hot "Tight Gas" Play for 25 Years, Petrel Robertson Consulting, presented at American Association of Petroleum Geologists Annual Convention, May 11-14, 2003, Salt Lake City, Utah.

[6] Sources: 1. Alberta Geological Survey and Alberta Scientific Research Authority, 2002, *Coalbed Methane Potential of Upper Cretaceous-Tertiary Strata, Alberta Plains*, Earth Sciences Report 2002-06. 2. Alberta Geological Survey and Alberta Scientific Research Authority, 2002, *Regional Evaluation of the Coalbed Methane Potential of the Foothills and Mountains of Alberta*, Earth Sciences Report 2002-05. 3. British Columbia Ministry of Energy and Mines, *Fact Sheet: B.C. Coalbed Methane Resources* 4. British Columbia Ministry of Energy and Mines, 2003, Map*: Coalfields and Coalbed Methane Potential in British Columbia.* 5. Low case gas-in-place estimate for coalbed methane in Mannville Formation and Paskapoo Formation coals from the 2001 Canadian Gas Potential Committee assessment of the WCSB.

do not develop production cost curves; rather we use threshold pricing (trigger prices) for these supplies to come online. The two attributes of these supply sources, maximum capacity by year and minimum threshold price, are exogenously provided. As discussed in Section 3, trigger prices for LNG imports are linked to the price of oil.

These frontier resources are modeled in NANGAS as market pull, indicating they are available at threshold prices. These projects are brought on-stream only when the threshold prices are reached and the discounted net present value of the net revenue stream (i.e. the marginal price at the demand node less the marginal price at the supply node plus full cost of transportation) is positive. Once the decision is made, the supply project is used every year until the end of the model run.

Information used to characterize these frontier resources was obtained from various publicly available sources. Supply curves were generated for each frontier resource category.

- **Alaska North Slope (ANS):** The natural gas resource located in ANS is substantial, with proven reserves of 35 Tcf in the Prudhoe Bay area where most of the oil production activities are currently conducted. In addition to the proven reserves, USGS estimates that ANS contains as much as 100 Tcf of undiscovered resource. To date, this resource is stranded because it lacks effective commercial access to markets. In fact, 6-8 Bcf/d of gas that is currently produced as part of the oil activities in the Slope is re-injected back into the Slope's oil reservoirs as part of the pressure maintenance programs. As the oil fields mature and produce less oil and more gas, the need for and the economic viability of gas re-injection diminishes. ANS producers, various pipeline project proponents, and governments in both the US and Canada have stepped up efforts to bring to fruition the long-held goal of monetizing ANS gas.   For EPA Base Case 2006, ICF has chosen to show Alaska North Slope gas being brought to the Lower-48 markets starting in the year 2016 at a threshold wellhead price of $0.76/MMBtu. Alaska supplies start at 1.2 Bcf/d in year 2016, expand to 4.0 Bcf/d in 2017. We have not assumed any gas supplies from the Arctic National Wildlife Refuge (ANWR) in this study. Exhibit 10 shows the assumption for Alaska North Slope.

- **Mackenzie Delta (MD):** In the Mackenzie delta area of Canada (300 miles east of Prudhoe Bay), exploration drilling from 1970 and 1989 discovered 53 oil and gas pools about equally divided between the onshore and offshore areas. The Mackenzie delta area contains approximately 9-12 Tcf of discovered gas and over 60 Tcf of undiscovered gas, some of which is in pools sufficiently large to justify construction of a new gas pipeline to take the gas south to Alberta. Supply potential from Mackenzie delta can be over 1 Bcf/d. All of the Mackenzie delta discoveries are stranded at the present time, although several development proposals are under consideration. There is a renewed interest by Governments, producers, pipeline companies and Aboriginal peoples in exploiting the natural gas resources and transporting them to the Lower 48 markets due to projections of strong growth in natural gas fired generation, and the recent strength of gas prices. For EPA Base Case 2006, ICF assumed that Mackenzie Delta gas can be brought to the Lower-48 markets starting in the year 2012 at at a threshold wellhead price of $1.0 /MMBtu. Mackenzie Delta supplies start at 0.8 Bcf/d in year 2012, expand to 1.0 Bcf/d in 2014, and then again in 2016 to a total of 1.2 Bcf/d. Most of the Mackenzie Delta volume is expected to be used in oil sands recovery projects in Western Canada.

Both Alaska as well as Mackenzie Delta supplies are delivered in Alberta and then re-delivered to L-48 via existing pipelines and expansions. Exhibit 10 shows the assumption for Mackenzie Delta.

Exhibit 10: Assumptions for Alaska North Slope and Mackenzie Delta

Frontier Resource Supply Description	First Year of Potential Expansion	Trigger Price, 2003$/MMBtu	Capacity, Bcf/d	Cumulative Capacity, Bcf/d
Alaska North Slope	2016	0.76	1.2	1.2
Alaska North Slope (incremental)	2017	0.76	2.8	4.0
Mackenzie Delta	2012	1.00	0.8	0.8
Mackenzie Delta (incremental)	2014	1.00	0.2	1.0
Mackenzie Delta (incremental)	2016	1.00	0.2	1.2

- **Sable Island:** Estimated recoverable resources in Offshore Nova Scotia is over 30 Tcf. Sizeable quantities of natural gas are believed to be deposited in the Sable Island Sub Basin, deepwater Laurentian and Sydney channels, Georges Bank and St. Pierre Island. The Georges Bank and St. Pierre Island are currently under moratorium and no drilling has taken place. Sable Island shows the most promise for production, and will be supplemented by deepwater supplies from the region in the longer term. This study included supply only from Sable Island because of development activities in the area. Other regions of the area are in early stages of leasing and data collection, and publicly available gas resource data are incomplete. According to the CGPC, Sable Island is estimated to contain 3.7 Tcf of proven reserves, and 8.1 Tcf of undiscovered marketable natural gas. Commercial production from Sable Island started in December 1999. Sable Island gas is shipped over Maritimes and Northeast pipeline to the Canadian Maritimes and U.S. Northeast.

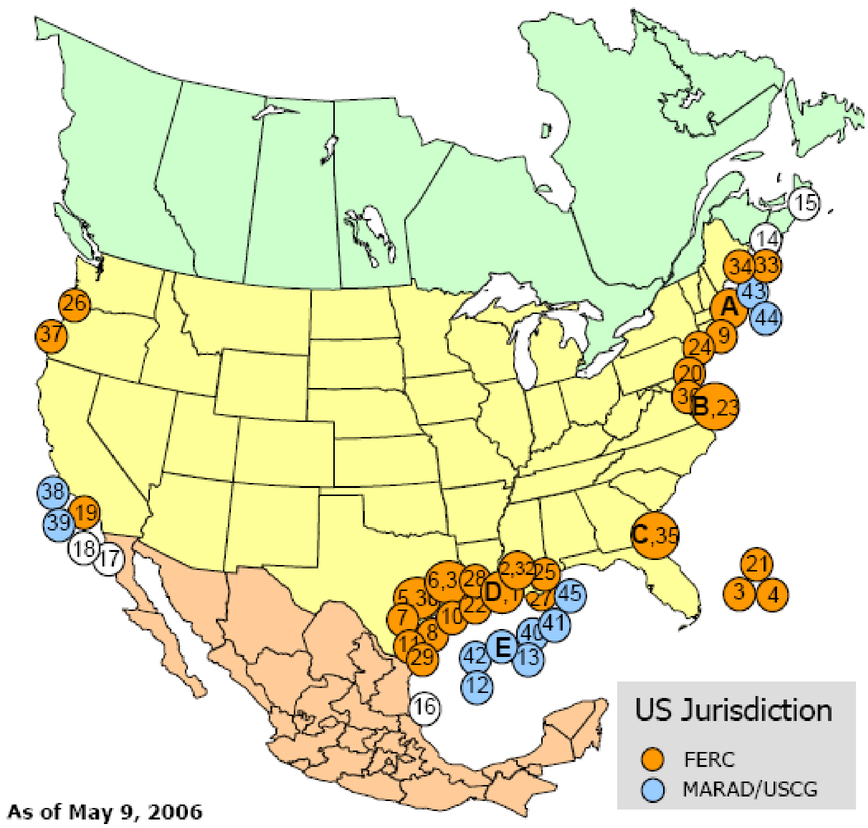
  Sable Island is assumed to decline in the future reflecting the current difficulties in the productivity of wells located in the offshore fields. Since it is modeled as a supply project (i.e. once online, it continues to produce), the supply is set constant at a levelized rate. For EPA Base Case 2006, Sable Island is assumed to produce at a levelized rate of 0.2 Bcf/D.

Exhibit 11: Assumptions for Sable Island

Frontier Resource Supply Description	First Year of Potential Expansion	Trigger Price, 2003$/MMBtu	Capacity, Bcf/d	Cumulative Capacity, Bcf/d
Sable Island	Existing	NA	0.2	0.2

- **Existing and Potential Liquefied Natural Gas (LNG) Terminals:** LNG is natural gas that has been transformed to a liquid by super-cooling it to minus 260 degrees Fahrenheit, reducing its volume by a factor of 600. LNG is then shipped on board special carriers, and the process is reversed at a receiving facility with the re-gasified product delivered via pipeline. Historically, LNG has supplied less than 1% of overall U.S. gas demand, due to high costs of transportation and liquefaction. Recently, however, improvements in the liquefaction process, combined with decreasing shipping costs, have resulted in a 50% decline in supply costs. The decrease in LNG cost has also come at a time when U.S. natural gas prices have increased over three folds compared to average price of $2.50-$3.0/MMBtu of the 1990s. In addition to the increased competitiveness of LNG, stranded gas reserves amounting to over 4,000 Tcf worldwide are making LNG an attractive gas supply option to meet rapidly increasing demand. This has led to many U.S. majors such as ExxonMobil, ConocoPhillips, Shell, BP etc. to look into tapping stranded natural gas resources in countries like Qatar, Trinidad, Algeria, Indonesia, Australia and others. Over 40 LNG import terminal proposals in North America have been announced with the hope of tapping these cheaper natural resources (see Exhibit 12). LNG is projected to make up a growing percentage of imports in coming decade.

Exhibit 12: Existing and Proposed Marine LNG Terminals as of May 2006



Source: Federal Energy Regulatory Commission

There are currently four onshore LNG import terminals in the U.S. that are under operation, and modeled in NANGAS. Energy Bridge offshore LNG receiving terminal in the Gulf of Mexico (shown as letter "E" in Exhibit 12) is operational since March 2005 but is not currently modeled as existing LNG terminal. This facility is viewed as future Gulf Coast LNG expansion in EPA Base Case 2006. All four existing LNG terminals are assumed to operate at 85% of their full rated capacity every year. Planned expansion levels on existing terminals are taken from publicly available data. Trigger prices for future expansions and new terminals are calculated based on the new algorithm discussed in Section 3 where the LNG trigger price is tied to oil price. Assumptions for existing and potential LNG capacity and price are listed in Exhibit 13.

Exhibit 13: Assumptions for Existing and Planned LNG Capacity and Pricing

Frontier Resource Supply Description	First Year of Potential Expansion	Trigger Price, 2003$/MMBtu	Capacity, Bcf/d	Cumulative Capacity, Bcf/d
Distrigas	Existing	NA	0.47	0.47
Distrigas	2005	3.89	0.19	0.66
Distrigas	2006	3.93	0.16	0.82
Cove Point	Existing	NA	0.56	0.56
Cove Point	2005	3.89	0.81	1.37
Cove Point	2007	3.96	0.20	1.57
Elba Island	Existing	NA	0.28	0.28
Elba Island	2005	3.89	0.10	0.38
Elba Island	2006	3.93	0.21	0.58
Elba Island	2012	4.14	0.60	1.18
Lake Charles/Gulf Coast LNG	Existing	NA	0.53	0.53
Lake Charles/Gulf Coast LNG	2006	3.93	0.25	0.78
Lake Charles/Gulf Coast LNG	2007	3.96	0.40	1.18
Lake Charles/Gulf Coast LNG	2009	4.03	1.00	2.18
Lake Charles/Gulf Coast LNG	2010	4.06	1.00	3.18
Lake Charles/Gulf Coast LNG	2011	4.09	0.75	3.93
Lake Charles/Gulf Coast LNG	2012	4.14	0.75	4.68
Lake Charles/Gulf Coast LNG	2014	4.20	0.75	5.43
Lake Charles/Gulf Coast LNG	2016	4.27	0.75	6.18
Lake Charles/Gulf Coast LNG	2018	4.34	0.50	6.68
Lake Charles/Gulf Coast LNG	2020	4.37	0.50	7.18
Lake Charles/Gulf Coast LNG	2022	4.39	0.50	7.68
Lake Charles/Gulf Coast LNG	2024	4.41	0.50	8.18
Bahamas LNG	2008	3.99	0.50	0.50
Bahamas LNG	2010	4.06	0.50	1.00
Baja LNG	2010	4.06	0.70	0.70
Baja LNG	2013	4.17	0.30	1.00
LNG-Crown Landing	2015	4.24	1.00	1.00
LNG-Bear Head	2009	4.03	1.00	1.00

6. E&P Technology Characterization

NANGAS uses E&P technology levers that are applied to the resource base in order to forecast productive capacity and production. In order to assure consistent analytical results from NANGAS and to appropriately address E&P technology issues, data for use in updating key NANGAS technology assumptions were obtained through a combination of research and analysis of governmental and industry sources. Key data elements were derived from the published literature, Energy Information Administration (EIA) publications, proprietary sources, and recommendations from the 2003 NANGAS peer review.

The following three general assumptions are made in developing E&P technology parameters in NANGAS.

- E&P technologies will continue to advance at a rate consistent with historical trends.
- Despite recent declines, we assume that investments in R&D will stabilize (by private/public partnerships, multi-company research consortia, etc.) with corresponding technological advances continuing.
- Insights and interpretation of the E&P R&D efforts conducted at the Strategic Center for Natural Gas (SCNG), U.S. Department of Energy (DOE) were used in determining technological levers and advancements rates.

The E&P technology assumptions and improvements in NANGAS were developed to capture gradual technology advances that would impact the North American gas market. A drastic/sudden improvement in E&P technologies is not assumed. Both current state-of-the-art as well as possible advanced technology parameters were used to model the potential impact of expanded technology application on the gas market. The E&P technology parameters used in NANGAS are as follows:

- **Skin Factor**: Represents drilling technology (drill bit design, air drilling, mud drilling etc.), completion/stimulation technology (acidizing, fracturing, perforation angle and size etc.). Sources of data include trade publications, SPE literature, and DOE.

- **Fracture Length/Conductivity:** Represents hydraulic fracturing technology (such as proppant design, type etc.). Sources of data include SPE literature, DOE and standard operating procedures.

- **Horizontal Well Length:** Represents drilling technology. Sources of data include SPE literature, Oil and Gas Journal.

- **Success Rates:** Represents seismic technology (3-D, 4-D seismic surveys). Sources of data include EIA, SPE literature, and company press releases.

- **Drilling Capacity:** Represents drilling footage drilled. Sources of data include API and professional judgment.

Exhibit 14 shows how the specific E&P technology factors considered were varied in the analysis. The skin factor, a dimensionless factor representing the restriction on gas flow in the near-wellbore domain, improves from a current value of 6 to a value of 2 with the application of advanced technology. Completion and stimulation techniques were also assumed to improve for unconventional resources. Current practices achieve on average 200 feet of effective fracture half-length (400 feet tip-to-tip). With improvements in fracturing technology, it increases to 500 feet. In line with the fracture half-length, the fracture conductivity, a measure of flow capacity of an induced fracture, was assumed to increase from 1000 md-ft to 3000 md-ft. Onshore success rates improve at 0.5% per year and offshore at 0.8% per year. As the technology improves over time, the horizontal wells are expected to increase in utilization and length of laterals. Horizontal wells were assumed to cost on average 30% more than the vertical wells. Also, the dry hole rates for development as well as exploration wells were assumed to decline with technology improvement. In this study, the technology improvements did not affect the rig retirement rate as the rig drilling capacity for current and advanced technologies was considered to be the same. Compressor installation costs are assumed to be $1200/BHP. Operating costs were assumed to reduce by 0.54% per year. Drilling costs for onshore regions decreased by 1.87% per year and for offshore regions by 1.2% per year.

In NANGAS, these advances in technology do not occur immediately. Time to develop, test, market, and gain operator acceptance of the practices are considered in developing the technology penetration curves. Applications are phased into the marketplace with costs initially being higher and gradually declining as the market expands. The evolution of E&P technology was analyzed by limiting both the market penetration rate and the ultimate saturation of key advances. This resulted in typical "S" shaped technology penetration curves.

Exhibit 14: E&P Technology Assumptions for EPA Base Case 2006

E&P Technology Parameter	Current Technology	Advanced Technology	% Improvement per year
Skin Factor (all resource types), dimensionless	6	3	2.2
Fracture Half Lengths, ft	200	500	6.5
Fractrure Conductivity, md-ft	1000	3000	8.7
Horizontal Wells, ft	750	2500	10.1
Horizontal Well Applicability for Accumulations in Field Size Class (USGS definition of Field Size Class 10 contains average recoverable resources of 144 Bcf)	10	10	0.0
Initial Drilling Cost ($/ft)	JAS 2000	90% of JAS 2000	0.4
Annual Drilling Cost Decline (Offshore), %	1.20	1.20	1.2
Annual Drilling Cost Decline (Onshore), %	1.87	1.87	1.9
E&P Operating Cost Decline, %	0.54	0.54	0.5
Compression Installation Cost ($/BHP)	1200	1200	0.0
Compression O&M Cost ($/Mcf)	0.15	0.0995	1.2
Horizontal Well Cost With Respect to Vertical Well Cost, fraction	1.3	1.17	0.4
Exploration Success Rates, %			
- Conventional	35	39	0.5
- Tight	35	39	0.5
- Natural Fracture	35	39	0.5
- Water Drive	35	39	0.5
- Coal and Shale	50	55.5	0.5
- Gulf Offshore	35	41.2	0.8
Development Success Rate	80	90	0.5

The overriding principle of NANGAS decision-making is that all E&P decisions are based on purely economic factors as an operator would do in field conditions. All project investment decisions in NANGAS are based on meeting a specified hurdle rate. The minimum hurdle rate is set at 15% for exploration projects and 12% for development drilling projects.

7. Fuel Prices

Natural gas prices are forecasted by taking into account both coal as well as petroleum product prices and demand levels in the industrial and electric sectors.   Demand for natural gas in the residential and commercial sectors are not directly dependent upon alternative fuels. The following section contains discussions for crude oil, petroleum products and coal prices used in developing natural gas supply curves for EPA Base Case 2006.

Crude Oil and Petroleum Product Price. Petroleum product prices play an important role in determining the relative mix of fuel (oil, gas, coal) for meeting the end-use demand in the electric and industrial sectors. NANGAS focuses on two petroleum products, No 2 Fuel Oil (distillate) and No. 6 Fuel Oil (residual fuel oil), the latter with two different sulfur levels: low sulfur at 1% weight and high sulfur at 3% weight.

The delivered regional costs for both products are calculated as follows: First, the delivered costs are calculated relative to crude oil prices in the U.S. Gulf. Then, transportation costs between the U.S. Gulf and other regions of the country are calculated.

There are two components for calculating the petroleum product prices delivered to the end-use sector: 1) the price of the petroleum product relative to a reference crude oil price and, 2) the cost of transportation to move the product from the various points of manufacture to the end-use geographic location. Transportation movements are somewhat different for the two products.

Distillate. Distillate products are produced throughout the United States, with the bulk being produced in the large efficient refineries in the Gulf Coast. From the Gulf Coast, pipelines radiate out to the East Coast, the Midwest and the Rockies. Petroleum Administration for Defense Districts (PADD) V, the West Coast region, tends to be a separate market, with some inter-connection between the Rockies and Spokane, and between the Gulf Coast and Arizona. (The entire US is divided into five PADDs, PADD I: East Coast, PADD II: Midwest, PADD III: Gulf Coast, PADD IV: Rocky Mountain, PADD V: West Coast). In addition, the crude oil used on the West Coast tends to differ markedly from that used elsewhere, and product specifications, at least in California, are different.

Residual Fuel Oil. Similar to distillate, residual fuel oil tends to be produced throughout the United States, with the focus on the Mid Atlantic, the Gulf Coast and the West Coast. Movements within the country are constrained by the decreasing demand for residual fuel oil by industry and utilities. Residual fuel oil does not move by pipeline, but by tanker and barge, and occasionally railroad. The majority of movements are directed to the East Coast, the area of greatest use, and where imports play a major role. Similar to the distillate market, the West Coast residual market tends to be separate from the rest of the United States.

Oil price for the EPA Base Case 2006 was based on ICF's own forecast on Refinery Acquisition Cost (RAC) of crude oil. RAC represents the cost of crude oil, including transportation and other fees paid by the refiner. The composite cost is the weighted average of domestic and imported crude oil costs excluding the cost of crude oil purchased for the Strategic Petroleum Reserve (SPR).

ICF also provided forecasts on refinery margins for the Gulf Coast region for the EPA Base Case 2006. The refinery margin used for this study reflects the move towards ultra-low sulfur distillate. The regional transportation adders represent both pipeline charges for moving products between different PADDs and charges for trucks and tankers.

Exhibit 15 shows the RAC crude oil price and refinery margins for distillate, 1% residual fuel oil, and 3% residual fuel oil used in the study. The main factors driving the run-up in oil prices since 2002 are rapid increase in demand for petroleum products world-wide, lack of investment in crude oil supply infrastructure, tightening environmental regulations for products world-wide, tight refining capacity, and price volatility and short-term events. A slightly lower price for 2006 takes into account moderation in the demand growth rate due to high prices in 2005. Between 2006 and 2012, crude oil prices are expected to moderate as investments in production and refining capacity bear fruit and new capacity is brought online easing the spare capacity crunch. Continued increases in demand in developing economies will be partially offset by the impact of carbon reduction policies in countries (mostly industrialized) that have agreed to the GHG emission limits imposed by the Kyoto Protocol. Significant new production from Saudi Arabia that is expected to come online in the 2012 to 2015 time frame will result in a further decline in crude oil prices. Much of this new crude is expected to be of medium sour quality that will require significant complex refining processing to produce the desired light products. However, oil prices are not expected to drop steeply as tightness in refining capacity, further sulfur restrictions for off-road diesel in the United States and on clean products in other parts of the world will exert upward pressure on prices. Beyond 2015, crude prices are expected to rise steadily due to steady demand growth and an increase in the cost of crude oil extraction as more oil is extracted from unconventional sources and/or hostile and deep-offshore environments.

Distillate fuel oil has been commanding a premium price relative to historic averages as demand for distillates world-wide has increased rapidly. Europe used to supply distillate to United States during the heating season but has not been able to do so for the last few years as its own demand for diesel is increasing considerably and it has become a net diesel importer. The introduction of ultra-low sulfur diesel (ULSD) in 2006 in the United States will increase refining, transportation and storage costs. These increased costs will affect distillate as well as diesel as diesel can be used in place of distillate, although the reverse is restricted by sulfur level and other specifications. The increase in spread between distillate and oil prices since 2002 was due to increase in oil price. The spread is expected to increase further in 2006 as ULSD is phased in and the initial problems in refining and distribution are sorted out.

Refinery margin for residual fuel until the end of 2003 has been relatively low. Since then, the spread has widened considerably due to the increased demand for fuel products (gasoline and diesel) coupled with the tight crude production spare capacity in 2004 and 2005 while the demand for residual fuel has not materially changed. We believe that increased refinery crude runs to meet clean fuels demand along with the increase in production of sour and heavier crudes is likely to keep the spread high in the long-term.

Exhibit 15: Crude Oil Price Forecast and Refinery Margins

Year	RAC Crude Oil Price, 2003$/Bbl	Gulf Coast Refinery Margins (2003$/Bbl)		
		Distillate	1% Residual Fuel Oil	3% Residual Fuel Oil
2002	24.4	0.8	-6.1	-7.5
2003	28.6	1.7	-6.5	-8.9
2004	36.5	3.8	-14.3	-16.6
2005	49.1	10.2	-18.0	-22.6
2006	47.9	11.2	-17.2	-21.9
2007	47.1	9.3	-16.8	-21.6
2008	46.2	9.3	-16.0	-21.0
2009	45.4	9.2	-15.6	-20.8
2010	45.0	9.6	-15.7	-20.9
2011	44.6	8.8	-15.7	-21.1
2012	44.3	7.4	-15.7	-21.2
2013	43.1	6.9	-15.3	-20.8
2014	41.8	6.3	-15.0	-20.5
2015	40.6	5.7	-14.5	-19.9
2016	41.2	5.7	-14.8	-20.0
2017	41.8	5.8	-15.1	-20.3
2018	42.4	5.9	-15.6	-20.7
2019	43.0	6.0	-16.1	-21.1
2020	43.6	6.1	-16.5	-21.3
2021	44.2	6.2	-16.8	-21.5
2022	44.7	6.3	-17.1	-21.7
2023	45.3	6.3	-17.4	-21.8
2024	45.9	6.4	-17.8	-22.1
2025	46.4	6.5	-18.2	-22.4
Average (2005-2025)	44.5	7.4	-16.2	-21.2

Coal Price. Average realized regional coal prices, based on actual dispatch and generation patterns of coal plants, are taken directly from IPM outputs for EPA Base Case 2006 and used in NANGAS.

8. End-Use Demand Characterization

NANGAS models natural gas demand in four end-use sectors: residential, commercial, industrial and electric generation. For the electric generation sectors both utilities as well as non-utilities are modeled. A total of 139 pipeline corridors connect 87 supply/demand/transfer nodes in the model. Prices are calculated at each of the 87 supply/demand/transfer nodes. The integrating linear program balances supply and demand for gas based on the concept of maximizing consumer and producer surplus in each region, year and season. There are following five key drivers for natural gas demand in NANGAS. They are:

i) **Crude oil price:** Crude oil price is critical because of inter-fuel competition. Industrials and electric utilities can switch between residual fuel oil and distillate as natural gas prices go up. The average crude oil price used for EPA Base Case 2006 is $44.5/bbl (2005-2025).

ii) **Macroeconomic parameters:** Average (2005-2025) GDP growth rate was assumed to be 2.9% per year for the U.S. and 2.6% for Canada. Average (2005-2025) population growth rate was assumed to be 0.79% per year for the U.S. and 0.94% per year for Canada. The number of households and household income are derived from GDP and household size.

iii) **Electric Demand Growth:** Electric sector demand includes utility as well as non-utility generators supplying electricity to the grid. The electric demand growth rate was assumed to be 1.50% per year consistent with IPM Version 3.0.

iv) **Pipeline Infrastructure:** New pipeline capacity gets added at 1.25 times the current reservation charges unless another specified rate is known to be more accurate.

v) **Weather:** 30-year normal weather is assumed.

In the following sections, we will describe the modeling methodology, data and updates completed for each of the end-use sector modeling.

Electricity Sector: Electric sector demand for natural gas in NANGAS was set consistent with electric sector assumptions from IPM in order to mimic aggregate regional level IPM decision making with respect to capacity additions, generation levels, heat rates, and costs. In order for NANGAS and IPM to be consistent, key data from IPM were incorporated directly into NANGAS. Entries by IPM demand regions were cross-walked to the corresponding NANGAS demand region to ensure consistency. The main drivers for natural gas demand in the electric sector are the cost and performance data as shown below.

- Electricity generation (BKWH) by region and year
- Average realized heat rates (BTU/KWH) by plant type and year
- Capital cost by plant type and year
- Average realized fixed O&M cost by plant type and year
- Average realized variable O&M cost by plant type and year
- Discount rates
- Capital charge rates
- Maximum utilization of existing and new plants

Utilizing data at this level of detail in NANGAS helped preserve the detailed power sector dispatch modeling conducted in IPM and captured IPM's forecast of regional and annual gas demand in NANGAS. The overall gas price forecast generated from NANGAS is highly dependent upon the characterization of the electric sector. For example: a higher heat rate assumption for new electric plants would result in higher demand for natural gas and corresponding higher natural gas prices.

Residential Sector: The main drivers for gas consumption in any year for the residential sector are number of household, household income, gas price, energy efficiency, and heating degree-days. The macroeconomic equation for gas demand in the residential sector is shown below.

$$\begin{aligned} R_{yr} = R_{0r} &* (P_{yr}/P_{0r})^{(-0.598)} \\ &* (HH_{yr}/HH_{0r}) *(HHI_{yr}/HHI_{0r})^{(0.680)} \\ &* (HDD_{yr}/HDD_{0r})^{(0.276)} \\ &* (R_{eff_{yr}}/ R_{eff_{0r}}) \end{aligned}$$

The equation was econometrically derived using price, demand, and heating degree-days data from 1977-2002 on individual state level data and adjusted for future demand based on EIA forecasts. Number of U.S. households and population data from 1967-2002 were used to derive an equation to forecast number of households in the future. In the above equation the terms are defined as follows:

R – Natural gas demand for the residential sector
P – Natural gas price for the residential sector
HH – Number of households
HHI – Average household income
Reff – Residential efficiency improvement factor
HDD – Heating degree-days

Subscripts notation are as follows: r – Region, y – Year, 0 – Reference year.

The residential demand equation indicates that the price elasticity of demand is -0.598. This means that when the natural gas price changes by 100%, residential demand for gas will change by approximately 60%. As discussed in Section 3, near-term price elasticity in the residential sector was reduced to reflect the near-term relative inelasticity of demand to price. We started with one-tenth of the elasticity (-0.0598) in 2001 and gradually increased the elasticity to its original value in 2010. Natural gas demand in the residential sector also increases as the number of households and household income increases. In addition, heating degree-days play an important role in determining the residential gas demand level. Efficiency improvements play a critical role in determining residential demand level. The American Gas Association (AGA) reports that the average home uses 22% less gas than it did in 1980. So the total amount of natural gas delivered to homes in 2002, was about the same as the amount of natural gas delivered in 1997, despite the fact that seven million residential customers were added during that time. This has happened for efficiency improvements in the industry. Average (2005-2025) residential efficiency improvement factor used in NANGAS is 1% per year.

The number of households and household income is forecasted as follows. First, average national household size (HHS) is forecasted using the following equation.

$$HHS_y = \mathrm{Exp}(0.873249 + 4.74279 * (1/(y-1953)))$$

The average household size has been decreasing in the U.S. from a high of 3.2 individuals per household in 1967 to around 2.6 individuals per household currently. This equation fits the historical trend well and forecasts a gradual decline in the household size to around 2.4 by 2025.

Population is then divided by the household size to generate the number of households (HH). Gross regional product is divided by the household size to determine average household income (HHI). Number of households and household income are both used in determining residential demand for natural gas.

For forecasting purposes, a normal weather is assumed. Natural gas price delivered to the residential sector is calculated endogenously in NANGAS via the integrating linear program.

Commercial Sector: The main drivers for gas consumption in any year for the commercial sector are gross regional product, price and heating degree-days. The macroeconomic equation for gas demand in the commercial sector is shown below.

$$C_{yr} = C_{0r} * (P_{yr/}P_{0r})^{(-0.424)} \\ * (GRP_{yr/}GRP_{0r})^{0.4} \\ * (HDD_{yr}/HDD_{0r})^{0.191}$$

The equation was econometrically derived using price, demand, and heating degree-days data from 1977-2002 on individual state level data and adjusted for future demand based on EIA forecasts. It was determined that efficiency improvements in the commercial sector did not factor into overall demand levels. In the above equation the terms are defined as follows:

C – Natural gas demand for the commercial sector
P – Natural gas price for the commercial sector
GRP – Gross regional product
HDD – Heating degree-days

Subscripts notation are as follows: r – Region, y – Year, 0 – Reference year.

The commercial demand equation indicates that the price elasticity of demand is -0.424. This means that when natural gas price changes by 100%, the commercial demand for natural gas will change by 42.4%. Similar to the residential demand, near-term price elasticity in the commercial sector was reduced to reflect the near-term relative inelasticity of demand to price. We started with one-tenth of the elasticity (-0.0424) in 2001 and gradually increased the elasticity to its original value in 2010. Natural gas demand in the commercial sector also increases as the gross regional product increases. In addition, heating degree-days play an important role in determining the commercial sector gas demand level. As previously noted, efficiency improvements do not play a critical role in determining the commercial demand for natural gas.

For forecasting purposes, normal weather is assumed. Natural gas price delivered to the commercial sector is calculated endogenously in NANGAS via the integrating linear program.

Industrial Sector: Gas demand in the industrial sector is modeled in NANGAS for three sub-sectors. They are: boilers, process heat/other and feedstock.

Industrial Boilers: In the industrial boiler sector, NANGAS contains over 30,000 boilers. The basic operating characteristics of the boilers are derived from EPA's AIRS database. In NANGAS, the industrial boilers can switch between natural gas and fuel oil depending upon the relative attractiveness of the fuel prices.

Industrial boilers are divided into two broad categories: small boilers with capacity less than 250 MMBtu/hr and large boilers with capacity greater than 250 MMBtu/hr. In both categories, there are three types of boilers; boilers that burn "gas only", "gas or resid" and “gas or distillate”. Altogether there are six separate combinations of boiler size – fuel type modeled in NANGAS.

Two separate macroeconomic equations are used to forecast gas demand in the industrial sector. The two equations are based on the two types of fuels used in industrial boilers.

For gas-only burning units (no fuel switching), the main drivers for gas demand are Gross Regional Product, energy intensity (which is defined as a ratio of industrial sector output to GRP), and the gas price. The macroeconomic equation for natural gas demand in gas-only burning boilers is as follows:

$$BG_{yr} = BG_{0r} *(P_{yr}/P_{0r})^{(-0.5)} *(GRP_{yr}/GRP_{0r})^{(0.9)} *(EI_{yr}/EI_{0r})^{(2.11)}$$

Efficiency improvements in the boiler sector are captured through energy intensity. Energy intensity is projected to decline at an average annual rate of 1.1% per year, as continuing efficiency gains and structural shifts in the economy offset growth in demand for energy services. In the above equation the terms are defined as follows:

BG – Natural gas demand for gas-only industrial boilers
P – Natural gas price for the industrial sector
GRP – Gross regional product
EI – Energy intensity

Subscripts notation are as follows: r – Region, y – Year, 0 – Reference year.

For gas/distillate and gas/residual fuel oil burning units, the regression equation is similar to the gas-only burning units but the price term in the equation is not only based on the gas price, but it also is a function of the price of the alternative fuel to gas (either residual fuel oil or distillate). If the price of the alternative fuel is cheaper than natural gas, then gas demand for boilers is zero, and the boilers burn the fuel oil and vice versa. This comparison is done on an annual and seasonal basis in NANGAS. The macroeconomic equations used to forecast natural gas demand for gas/oil fungible boilers are as follows:

When gas prices are lower than fuel oil price:

$$BG_{yr} = BG_{0r} *(P_{yr}/P_{0r})^{(-0.74)} *(GRP_{yr}/GRP_{0r})^{(0.48)} *(EI_{yr}/EI_{0r})^{(2.11)}$$

$$BF_{yr} = 0.0$$

When gas prices are higher than fuel oil price:

$$BF_{yr} = BF_{0r} *(FP_{yr}/FP_{0r})^{(-0.42)}$$
$$*(GRP_{yr}/GRP_{0r})^{(1.54)}$$
$$*(EI_{yr}/EI_{0r})^{(2.28)}$$

$$BG_{yr} = 0.0$$

In the above equations the terms are defined as follows:

BG – Natural gas demand for industrial boilers
BF – Fuel oil demand for industrial boilers
P – Natural gas price for the industrial sector
FP – Fuel oil price for the industrial sector
GRP – Gross regional product
EI – Energy intensity

Subscripts notation are as follows: r – Region, y – Year, 0 – Reference year.

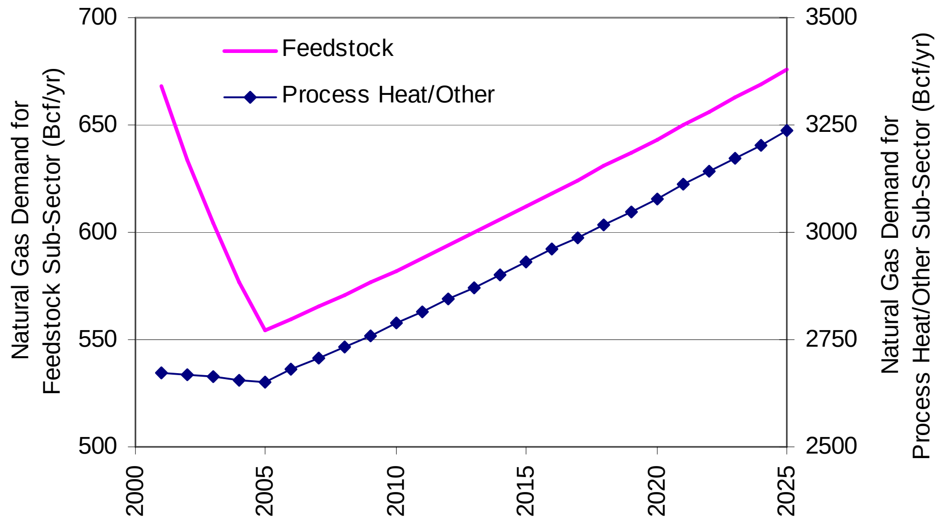
Process Heat/Other and Feedstock Sub-Sectors: Process heat and feedstock sub-sectors' natural gas demand is exogenously supplied as inputs in NANGAS.

"Process heat" includes all uses of energy that involves direct heating (instead of indirect heating like steam) while "Other" includes all the remaining direct heating uses, including non-boiler cogeneration, on-site electricity generation, and space heating.

The feedstock sub-sector of the industrial sector consists of three subcomponents: ammonia, methanol and hydrogen production. The domestic ammonia industry is highly affected by high natural gas prices as natural gas accounts for a substantial share of its total production costs. Further, the industry is exposed to global market competition, so permanent loss of domestic production due to increased imports is possible.

In NANGAS, price effects on natural gas demand from the feedstock and process heat/other sub-sectors have not been represented. The 2003 peer review suggested capturing such price effects by developing macroeconomic equations for use in forecasting gas demand in these sub-sectors. However, it was determined that data on historical, regional natural gas demand for these sub-sectors are not publicly available or available for purchase. In the absence of historical data, it was not possible to develop macroeconomic equations. Instead, near-term (2001-2005) forecast from NPC and a 1% per year long-term (2006-2025) growth assumption were exogenously supplied to NANGAS. Exhibit 16 shows gas demand data used in NANGAS for these sub-sectors.

Exhibit 16: Assumption for Natural Gas Demand in Process Heat/Other and Feedstock Sub-Sectors



9. Discussion of Final NANGAS Results

In this section we describe NANGAS results for EPA Base Case 2006. A typical NANGAS run generates the following outputs:

- Natural gas prices
- Natural gas production by region and resource type
- Natural gas industry activities such as reserves additions, wells drilled, success rates, pipeline utilization and flows
- Natural gas consumption by region and sector (i.e., the electric sector and the non-electric sector, which includes residential, commercial and industrial sectors)
- Pipeline capacity expansion levels, electricity capacity expansion levels

Seven NANGAS runs at different electricity growth rates (1.0%, 1.5%, 2.09%, 2.5%, 3.0%, 3.5%, and 4.0) were completed that provided seed prices and volumes to generate the supply curves for IPM Version 3.0. As discussed in Section 3, no coal power plant build is allowed in NANGAS for generating the curves. For purposes of comparison, however, another NANGAS run (1.5% electricity growth rate) was performed with the NANGAS coal power plant build option enabled. Summary results for the 1.5% electricity growth rate case are shown in Exhibit 17.

Exhibit 17: Supply/Demand Disposition and Henry Hub Price for the 1.5% Electricity Growth Rate Case for EPA Base Case 2006

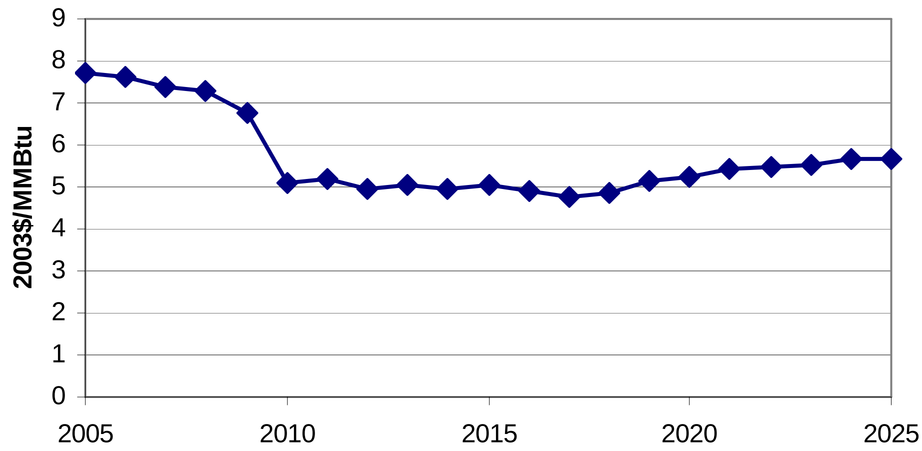
Supply/Demand Disposition, 1.5% Case, Bcf/yr	2005	2007	2009	2011	2013	2015	2017	2019	2021	2023	2025	Annual Growth (%) (2005-2025)
Northeast	819	852	885	931	978	1112	1165	1223	1254	1257	1245	2.1%
Gulf Coast (Onshore)	3866	3695	3665	3870	3850	3586	3453	3504	3400	3329	3357	-0.7%
Mid-Continent	2022	2072	2224	2228	2193	2235	2113	2114	2081	2062	1984	-0.1%
Permian	1617	1564	1507	1427	1343	1269	1217	1183	1152	1138	1054	-2.1%
Rockies Mountain	3282	3703	4281	4593	4856	5018	5296	5393	5451	5522	5565	2.7%
West Coast	246	236	233	232	223	222	212	205	199	193	191	-1.3%
Lower-48 Offshore	5285	5239	5256	5158	5183	5311	5382	5464	5326	5353	5429	0.1%
North Alaska	0	0	0	0	0	0	1460	1460	1460	1460	1460	N/A
Total Lower-48	17138	17361	18051	18439	18625	18753	18837	19086	18862	18853	18824	0.5%
Total US	17138	17361	18051	18439	18625	18753	20297	20546	20322	20313	20284	0.8%
Pipeline Imports to Lower-48	3149	3018	3145	2438	2533	2442	3439	3110	2886	2798	2585	-1.0%
LNG Imports to Lower-48	846	1314	1862	2939	3542	4181	4455	4637	4820	5002	5185	9.5%
Net Exports to Mexico	587	453	350	286	247	214	185	159	140	127	114	-7.9%
TOTAL Supply to Lower-48	20546	21241	22708	23530	24452	25161	26545	26674	26427	26526	26479	1.3%
Lower-48 Demand, Non-Electric Power Sector*	16428	16477	16833	18373	18910	19277	20087	20005	20017	20216	20392	1.1%
Lower-48 Demand, Electric Power Sector	4117	4763	5875	5156	5542	5884	6458	6669	6411	6310	6087	2.0%
TOTAL Lower-48 Demand	20546	21241	22708	23530	24452	25161	26545	26674	26427	26526	26479	1.3%
Total Canada Demand	2935	3062	3250	3575	3726	3845	4085	4037	4071	4161	4241	1.9%
												Average HH Price (2005-2025)
Henry Hub, 2003$/MMBtu	7.73	7.38	6.77	5.20	5.05	5.05	4.78	5.16	5.43	5.54	5.65	5.70

**Include natural gas use for lease & plant, fuel in pipeline transportation, and fuel in underground storage operation.*

Natural Gas Prices. Representative North American wellhead prices are typically reported at the Henry Hub. Henry Hub is a pipeline interchange hub in Louisiana Gulf Coast near Erath, LA, where eight interstate and three intrastate pipelines interconnect. Liquidity at this point is very high and it serves as the primary point of exchange for the New York Mercantile Exchange (NYMEX) active natural gas futures markets. Henry Hub prices are considered as a proxy for U.S. natural gas prices. Natural gas from the Gulf moves through the Henry Hub onto long-haul interstate pipelines serving demand centers. Due to the importance and significance of the Henry Hub, NANGAS generated supply curves are specified at Henry Hub prices.

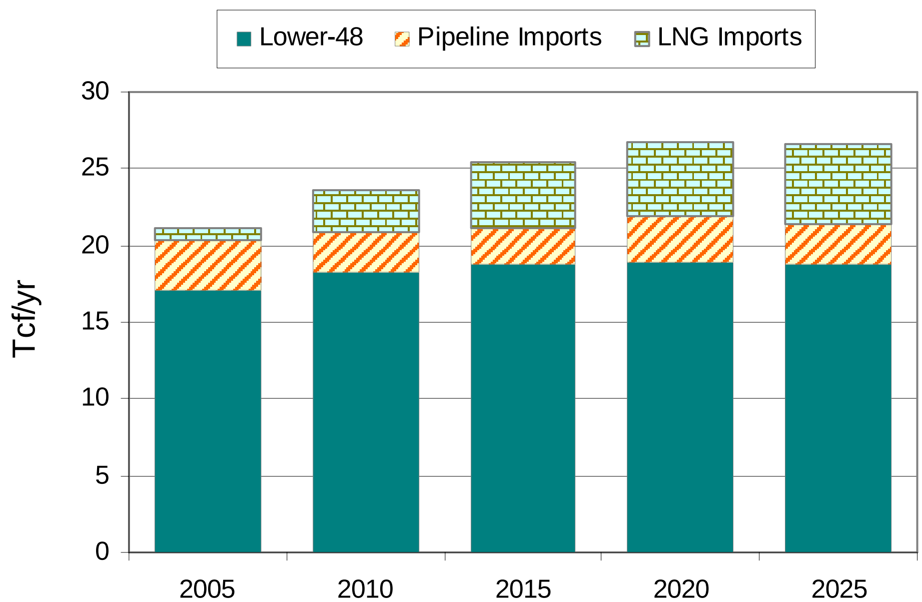
As shown in Exhibit 18, Henry Hub price will decline from over $7.7/MMBtu in 2005 to around $5/MMBtu in 2010 as a result of increasing LNG imports to the lower-48 from around 2 Bcf/d in 2005 to over 7 Bcf/d in 2010. A sudden price drop in 2010 is primarily due to sharp increase in LNG growth rate, from 24% in 2009 to almost double in 2010, when new LNG capacity of 0.7 Bcf/d becomes available from Baja to California and capacity expansions of 0.5 Bcf/d in Bahamas LNG and 1 Bcf/d in Lake Charles/Gulf Coast LNG. The price will remain flat until 2015 as LNG imports continue to grow with an average rate of 7% and new supply from Mackenzie Delta becomes available from 2012. A slight price decline in 2016 and 2017 is driven by Alaska gas with initial supply of 1.2 Bcf/d in 2016 and expanding to 4 Bcf/d in 2017. The price will increase steadily after 2017 driven mostly by declining pipeline imports from about 3.5 Tcf in 2017 to 2.5 Tcf in 2025. The slowing down of LNG imports, with an average growth rate of only 2%, and declining Lower-48 supply are also contributing to this price increase.

Exhibit 18: Henry Hub Price Forecast



Supply to Lower-48: Total supply comes from three sources: production from natural gas fields in the Lower-48, pipeline imports (which include supplies from Alaska and Bear Head LNG), and LNG imports. Mexico is assumed to be a small net importer and does not impact the overall pricing levels. Exhibit 19 shows supply from these sources.

Exhibit 19: Supply Sources for Lower-48

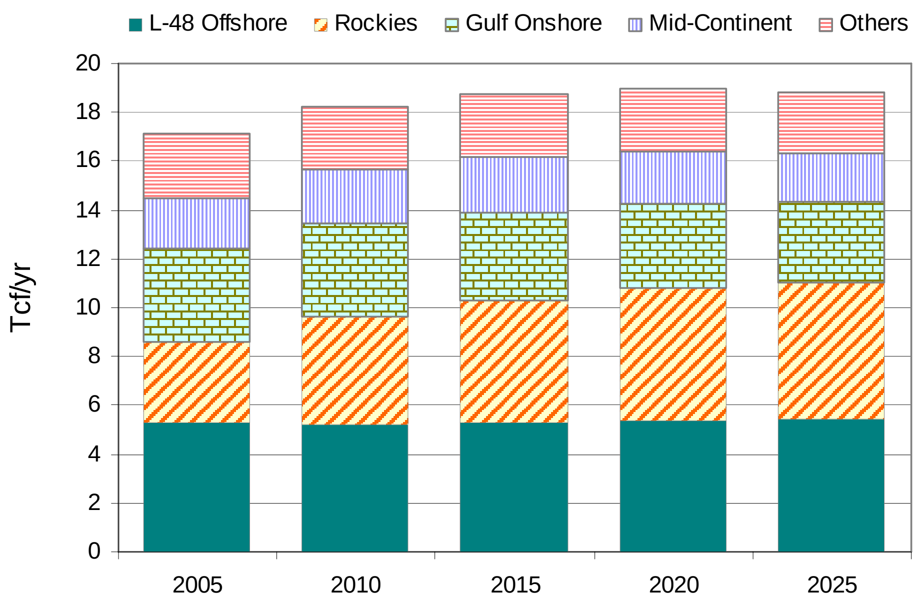


a) Lower-48 Production: NANGAS forecasts that the Lower-48 production will grow at an annual rate of 0.8% until reaching a peak in 2019 and will decline with an average rate of 0.2% per year. Lower-48 production accounts for more than 80% of natural gas demand in 2005. Its contribution will go down to around 70% in 2017 to 2025. The remaining 30% will be met by increasing LNG, Alaska, and Canadian imports.

Regions with supply growth are: Rockies, Northeast, and Lower-48 Offshore. NANGAS forecasts around 2.7% per year growth in production from Rockies and 2.1% per year from Northeast. Strong production growth from Rockies is driven by aggressive drilling and production activities in the unconventional plays and more access to federal lands. Lower-48 offshore will experience modest production decline until 2012 and then grow at around 0.5%/yr as additional volumes are brought online from deepwater and deep shelf resources.

NANGAS forecasts a continuing decline in onshore Gulf Coast and West Coast supply regions as basins mature in the region and additional drilling in the region bring lower productive fields to the market. Production from Mid-Continent basin will peak in 2015 and then decline at an annual rate of 1.2%. Exhibit 20 shows regional production trends.

Exhibit 20: Lower-48 Regional Production Trends

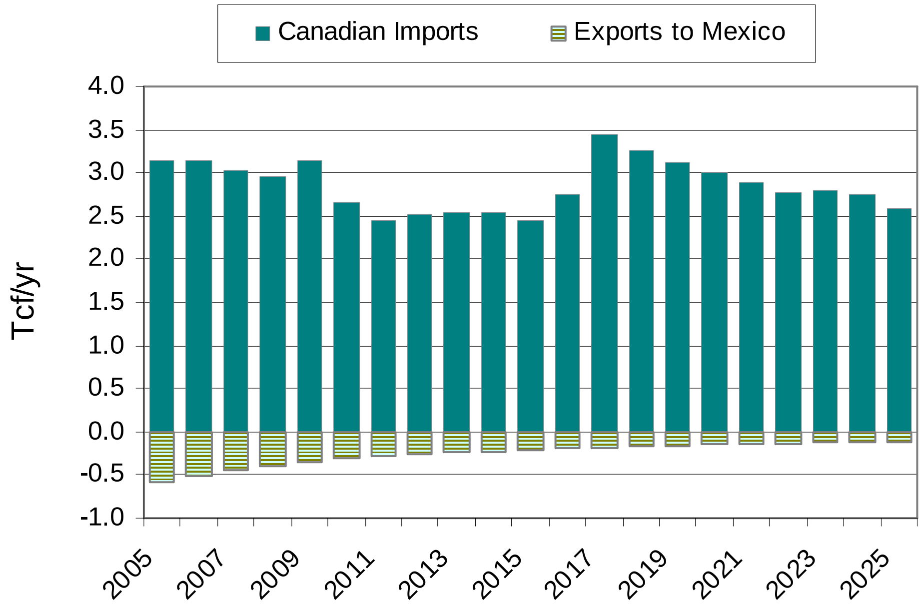


b) Pipeline Imports: The model endogenously calculates gas volumes crossing the Canadian and Mexican borders through pipeline. Exhibit 21 shows Canadian imports (include gas supply from Alaska and also Bear Head LNG that will sever the New England market through Maritimes & Northeast pipeline) and exports to Mexico.

Currently, total supply from pipeline imports to the Lower-48 is over 3 Tcf which accounts for 15% of total Lower-48 demand. However, declining production from the Western Canadian Sedimentary Basin (WCSB) with an annual rate of 1.5% and increasing Canadian gas demand with an annual rate of 1.9% will reduce the import level to around 2.5 Tcf in 2011. An increase in 2009 is from Bear Head LNG in Nova Scotia which delivers most of the gas to New England. Mackenzie Delta supply starting from 2012 at 0.8 Bcf/d and growing to 1.2 Bcf/d in 2016 will maintain the pipeline import level. Alaska supply that will come online in 2016 with an expansion in 2017 at a total of 4 Bcf/d will temporarily increase the supply but the pipeline import will continue to decline back to the 2.5 Tcf level in 2025.

Mexico will continue to be a net importer of gas. Exports to Mexico from US continue to decrease over the forecasting horizon.

Exhibit 21: Pipeline Imports

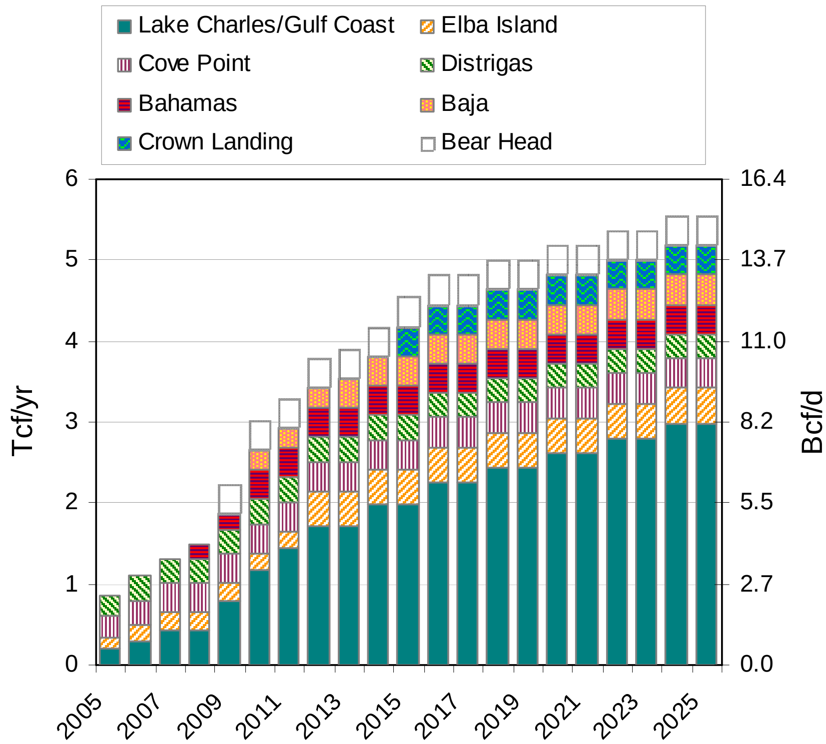


c) LNG Imports: NANGAS endogenously calculates LNG imports by year. Exhibit 22 shows LNG import to the Lower-48 as well as LNG imports to Bear Head terminal in Nova Scotia, Canada. More than 95% of gas supply from Bear Head LNG will serve New England market through Maritimes & Northeast pipeline. Since the supply from Bear Head LNG is reported as part of pipeline imports from Canada, it will not be included as LNG import to the Lower-48.

All existing LNG terminals operate to 85% capacity, and new terminals in Bahamas, Baja, Crown Landing, and Bear Head are built and operate to full capacity. Future trigger prices for existing as well as new LNG terminals are calculated exogenously based on the LNG and oil price relationship algorithm discussed in Section 3.

Currently, only 4% of the Lower-48 demand is met by LNG imports. The share is expected to grow significantly in the next ten years reaching 17% in 2015 and 20% in 2025. On average, about half of the LNG imports will come through LNG terminals in the Gulf Cost where the throughput will grow from 0.5 Bcf/d in 2005 to more than 8 Bcf/d in 2025. New LNG terminals in Baja, Bahamas, Crown Landing, and Bear Head will be operational within 2008 to 2015 timeframe, each with up to 1 Bcf/d sendout capacity. Total volume of LNG imports to the Lower-48 is expected to reach more than 14 Bcf/d in 2025.

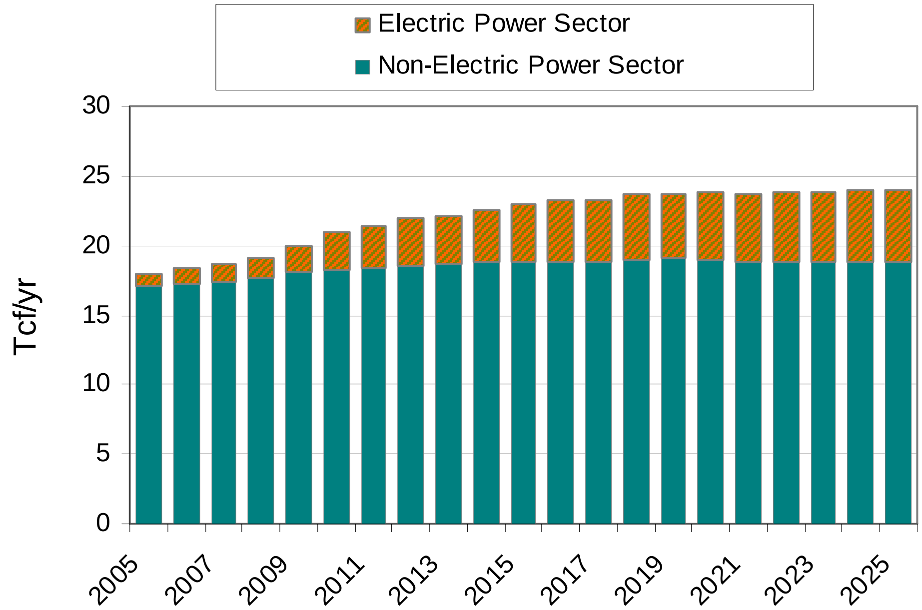
Exhibit 22: LNG Imports



Lower-48 Demand: Total Lower-48 natural gas demand grows from around 21 Tcf/yr (56.3 Bcf/d) in 2005 to 26.5 Tcf/yr (70.6 Bcf/d) in 2025. This is a modest growth of around 1.3% per year. Total demand never reaches 30 Tcf throughout the modeling horizon. Canadian demand grows by 1.9% per year from around 2.9 Tcf/yr (8.0 Bcf/d) in 2005 to 4.2 Tcf/yr (11.6 Bcf/d) in 2025.

Exhibit 23 shows natural gas demand forecast in the Lower-48. The demand growth in the electric power sector is almost double the growth in the non-electric power sector. Gas fuel consumption in the electric power sector will grow from 4.1 Tcf/yr (11.3 Bcf/d) in 2005 to 6.1 Tcf/yr (16.7 Bcf/d) in 2025.

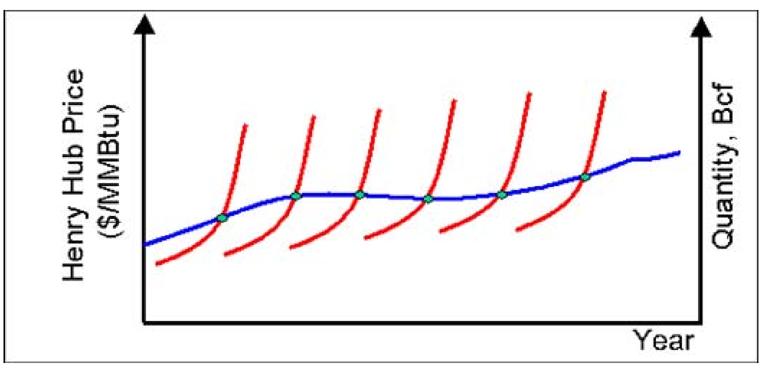
Exhibit 23: Lower-48 Natural Gas Demand



10. Supply and Non-Electric Demand Curves and Transportation Adders

For use in IPM modeling, NANGAS generates a price forecast over a time horizon and a set of time dependent price/supply curves based on the resulting price path for each year in the forecast. Exhibit 24 shows a schematic of this methodology.

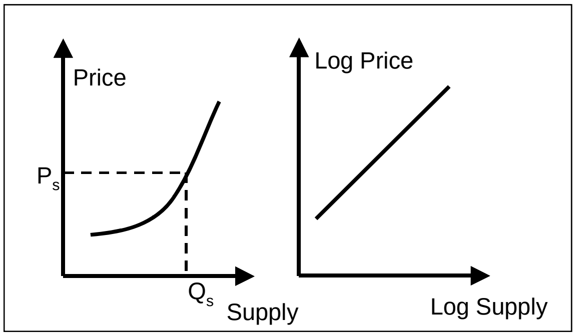
Exhibit 24: Schematic of Price Path and Time Dependent Supply Curves Generated in NANGAS

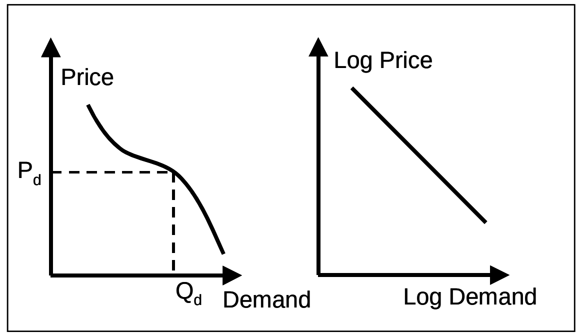


Supply Curve Generation Steps**:** NANGAS and IPM are run at seven different electricity growth rates to generate seed points of the supply curves. As discussed in Section 3, no coal power plant build is allowed in NANGAS for generating the curves. NANGAS and IPM runs are iterated until the results converge for electric sector gas consumption and for clearing prices in each of the seven electricity growth rate cases. This results in seven final convergent NANGAS runs, one for each electricity growth case. For EPA Base Case 2006, the seven electricity growth rates assumed are: 1.0%, 1.5%, 2.09%, 2.5%, 3.0%, 3.5%, and 4.0%.

Supply/price and non-electric demand/price relationships are curve-fit on a log-log scale. As Exhibit 25 shows the price/quantity pair when plotted on log-log scale is assumed to follow a straight line.

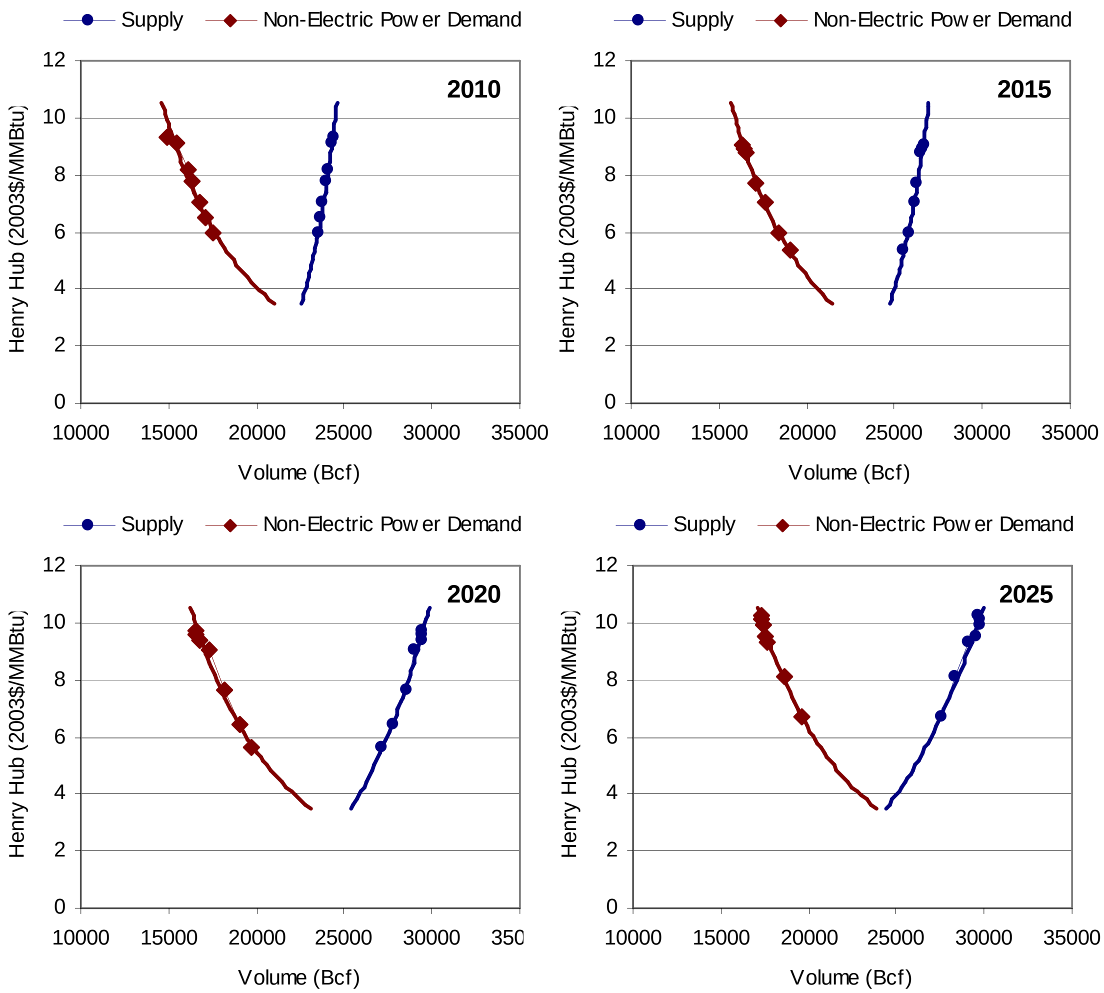
Exhibit 25: NANGAS Assumption of the Inter-relation of Price/Quantity on Cartesian and Log-Log Scale





There is an inelastic portion and an elastic portion of the supply and demand curves, which is assumed to approximate a linear relation when plotted on a log-log scale. Slopes and intercepts are calculated for every year based on the seven points obtained from the seven growth rate cases. The resulting equation is used in generating the supply and non-electric power demand curves ranging from $3.5/MMBtu to $10.55/MMBtu with $0.15/MMBtu interval for every year. Exhibit 26 shows the resulting supply and non-electric demand curves for years 2010, 2015, 2020, and 2025. The seven points along the curves are the seed points generated by NANGAS.

Exhibit 26: Supply and Non-Electric Power Demand Curves



Transportation Adders: To populate IPM with regional delivered gas prices, ICF analyzed Platt's "Gas Daily" reported gas pricing data at approximately 100 pricing points or market hubs. ICF selected one and/or a combination of gas daily pricing point as representative of each of the 31 IPM regions. Exhibit 27 shows the cross walk between the market hubs and the IPM regions. The basis differential is the difference between the price of gas at Henry Hub and the observed price in the IPM regions. Basis differentials represent local market conditions and represent a relationship between the local market and Henry Hub as a combination of transportation costs and local market supply and demand. Some regional prices have a negative relationship to Henry Hub, some are positive. The relevant IPM regional price will be equal to, greater than, or less than the market hub price. This can occur where for example the IPM region is not congruent with the market hub region and one could expect to either a slight discount from or a premium to the market hub price. These discounts and premiums are estimated.

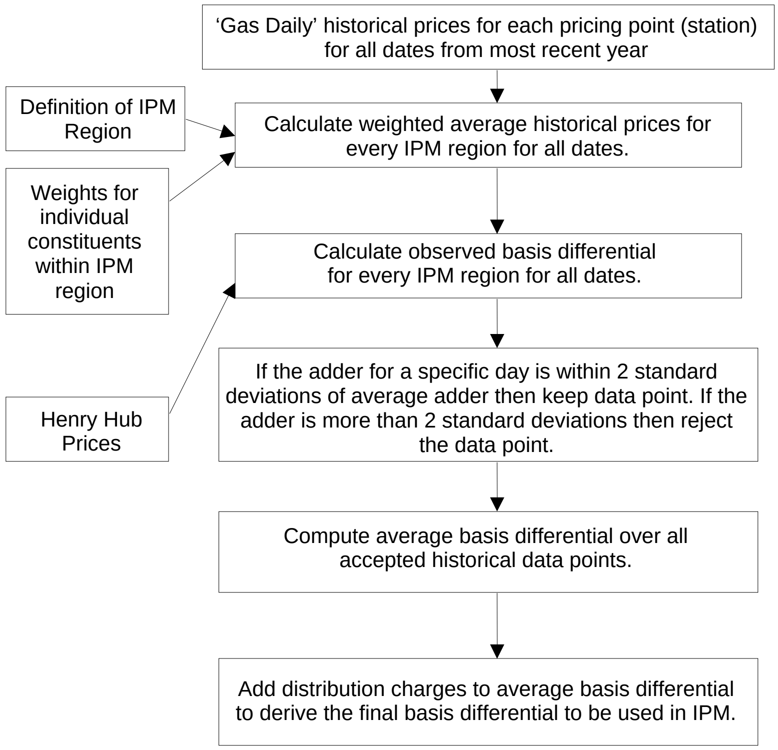
Exhibit 27: Cross Walk from Platt's "Gas Daily" to IPM Regions

IPM Region	Gas Hub
NENG	Ave. TN-6 AGT CG
DSNY	IRQ-2
UPNY	Niagara+
NYC	Transco-6
LLIC	Transco-6
MACE	TETCO-M3
MACW	Columbia Hub
MACS	Transco-5
VAAW	Transco-5
VACA	Transco-5
SOU	Transco-4
FRCC	FCG
TVA	TETCO-M1
ECAK	Columbia Hub
ECAP	Dom. NP
MECS	MichCon CG
ECAM	Chicago CG
WUMS	ANR ML 7
MANO	Chicago CG +
ENTG	TGT-1
ERCT	Ave. Texas
SPPS	ANR-OK+Reliant E
SPPN	NGPL-Mid
MRU	Northern Vent. --
RMPA	Cheyenne Hub +
AZNM	EP Perm. +
NWPE	NW Wyo. Pool +
PNW	NW CG/Stanfld
CA-N	PG&E CG
CA-S	PG&E S/Socal
SNV	Opal +

Daily gas price data for the most recent year were used in deriving the regional basis differentials. For summer, daily gas pricing data for May 1 – Sept 30 were used and for winter, daily gas pricing data for Oct 1 – April 30 were used. Since the basis is usually measured at a given point in a region where gas can be purchased at that price, there is still the need to move the gas to the power plant. On average ICF assumes this transportation adder to be $0.15/MMBtu. This represents the cost of moving gas from a trading hub over interstate pipeline, laterals, or local distribution company pipes.

In estimating average prices for regions and for parts of the year, outliers were eliminated. Prices that were greater than two standard deviations of the mean were considered as indicating some short term phenomena or aberration and were not used in determining average basis differentials. A simple arithmetic average was taken for data points within two standard deviation of the mean. Exhibit 28 shows the overall methodology of generating basis differentials for use in IPM. Exhibit 7 in Section 3 shows the resulting natural gas transportation adders that are used in EPA Base Case 2006, v.3.0.

Exhibit 28: Overall Flow Chart of Determining Basis Differentials



Appendix 8-3 Natural Gas Supply Curves for EPA Base Case 2006

The supply curves below specify annual price and volume relationships at the Henry Hub. For each listed step the price applies for all increments of supply greater than the value shown in the preceding step up to and including the supply level indicated in the current step. For example, in 2010 a price of $5.9 would secure natural gas supplies for the electric sector beyond the 5541 TBtu provided in the preceding step and up to a level of 5753 TBtu.

YEAR	PRICE (2004$/MMBtu)	Non Eectric Gas Demand (Tbtu)	Total Gas Supply (Tbtu)	Gas Supply to Electric Sector (Tbtu)
2010	3.59	21688	23220	1532
2010	3.75	21387	23300	1913
2010	3.9	21102	23370	2268
2010	4.05	20832	23440	2608
2010	4.21	20575	23510	2935
2010	4.36	20330	23580	3250
2010	4.52	20097	23640	3543
2010	4.67	19874	23700	3826
2010	4.82	19661	23760	4099
2010	4.98	19457	23820	4363
2010	5.13	19261	23880	4619
2010	5.29	19073	23940	4867
2010	5.44	18892	23990	5098
2010	5.59	18717	24040	5323
2010	5.75	18549	24090	5541
2010	5.9	18387	24140	5753
2010	6.06	18230	24190	5960
2010	6.21	18078	24240	6162
2010	6.36	17931	24290	6359
2010	6.52	17789	24340	6551
2010	6.67	17651	24390	6739
2010	6.82	17518	24430	6912
2010	6.98	17388	24470	7082
2010	7.13	17262	24510	7248
2010	7.29	17140	24550	7410
2010	7.44	17021	24590	7569
2010	7.59	16905	24630	7725
2010	7.75	16793	24670	7877
2010	7.9	16683	24710	8027
2010	8.06	16576	24750	8174
2010	8.21	16472	24790	8318
2010	8.36	16371	24830	8459
2010	8.52	16272	24870	8598
2010	8.67	16175	24910	8735
2010	8.83	16081	24940	8859
2010	8.98	15989	24970	8981
2010	9.13	15899	25000	9101
2010	9.29	15811	25030	9219
2010	9.44	15725	25060	9335
2010	9.6	15641	25090	9449
2010	9.75	15558	25120	9562
2010	9.9	15477	25150	9673

YEAR	PRICE (2004$/MMBtu)	Non Eectric Gas Demand (Tbtu)	Total Gas Supply (Tbtu)	Gas Supply to Electric Sector (Tbtu)
2010	10.06	15398	25180	9782
2010	10.21	15320	25210	9890
2010	10.37	15244	25240	9996
2010	10.52	15169	25270	10101
2010	10.67	15096	25300	10204
2010	10.83	15024	25330	10306
2015	3.59	22107	25450	3343
2015	3.75	21844	25540	3696
2015	3.9	21595	25620	4025
2015	4.05	21358	25700	4342
2015	4.21	21132	25780	4648
2015	4.36	20917	25850	4933
2015	4.52	20711	25920	5209
2015	4.67	20514	25990	5476
2015	4.82	20325	26060	5735
2015	4.98	20144	26130	5986
2015	5.13	19970	26190	6220
2015	5.29	19802	26250	6448
2015	5.44	19641	26310	6669
2015	5.59	19485	26370	6885
2015	5.75	19335	26430	7095
2015	5.9	19190	26490	7300
2015	6.06	19050	26540	7490
2015	6.21	18914	26590	7676
2015	6.36	18782	26640	7858
2015	6.52	18654	26690	8036
2015	6.67	18530	26740	8210
2015	6.82	18410	26790	8380
2015	6.98	18293	26840	8547
2015	7.13	18180	26890	8710
2015	7.29	18070	26940	8870
2015	7.44	17963	26980	9017
2015	7.59	17858	27020	9162
2015	7.75	17756	27060	9304
2015	7.9	17657	27100	9443
2015	8.06	17560	27140	9580
2015	8.21	17466	27180	9714
2015	8.36	17374	27220	9846
2015	8.52	17284	27260	9976
2015	8.67	17196	27300	10104
2015	8.83	17110	27340	10230
2015	8.98	17026	27380	10354
2015	9.13	16944	27420	10476
2015	9.29	16863	27460	10597
2015	9.44	16784	27500	10716
2015	9.6	16707	27540	10833
2015	9.75	16631	27570	10939
2015	9.9	16557	27600	11043
2015	10.06	16484	27630	11146
2015	10.21	16413	27660	11247

YEAR	PRICE (2004$/M MBtu)	Non Eectric Gas Demand (Tbtu)	Total Gas Supply (Tbtu)	Gas Supply to Electric Sector (Tbtu)
2015	10.37	16343	27690	11347
2015	10.52	16274	27720	11446
2015	10.67	16207	27750	11543
2015	10.83	16141	27780	11639
2020	3.59	23815	26120	2305
2020	3.75	23496	26280	2784
2020	3.9	23194	26440	3246
2020	4.05	22907	26590	3683
2020	4.21	22634	26740	4106
2020	4.36	22374	26880	4506
2020	4.52	22126	27020	4894
2020	4.67	21889	27150	5261
2020	4.82	21662	27280	5618
2020	4.98	21445	27410	5965
2020	5.13	21236	27530	6294
2020	5.29	21035	27650	6615
2020	5.44	20842	27770	6928
2020	5.59	20656	27880	7224
2020	5.75	20477	27990	7513
2020	5.9	20304	28100	7796
2020	6.06	20137	28210	8073
2020	6.21	19975	28310	8335
2020	6.36	19818	28410	8592
2020	6.52	19666	28510	8844
2020	6.67	19519	28610	9091
2020	6.82	19376	28710	9334
2020	6.98	19238	28800	9562
2020	7.13	19104	28890	9786
2020	7.29	18973	28980	10007
2020	7.44	18846	29070	10224
2020	7.59	18722	29160	10438
2020	7.75	18602	29250	10648
2020	7.9	18485	29340	10855
2020	8.06	18371	29420	11049
2020	8.21	18260	29500	11240
2020	8.36	18151	29580	11429
2020	8.52	18045	29660	11615
2020	8.67	17941	29740	11799
2020	8.83	17840	29820	11980
2020	8.98	17741	29900	12159
2020	9.13	17644	29980	12336
2020	9.29	17550	30050	12500
2020	9.44	17458	30120	12662
2020	9.6	17368	30190	12822
2020	9.75	17279	30260	12981
2020	9.9	17192	30330	13138
2020	10.06	17107	30400	13293
2020	10.21	17024	30470	13446
2020	10.37	16942	30540	13598
2020	10.52	16862	30610	13748

YEAR	PRICE (2004$/MMBtu)	Non Eectric Gas Demand (Tbtu)	Total Gas Supply (Tbtu)	Gas Supply to Electric Sector (Tbtu)
2020	10.67	16783	30680	13897
2020	10.83	16706	30750	14044
2025	3.59	24630	25100	470
2025	3.75	24316	25300	984
2025	3.9	24019	25490	1471
2025	4.05	23737	25680	1943
2025	4.21	23468	25860	2392
2025	4.36	23212	26030	2818
2025	4.52	22967	26200	3233
2025	4.67	22733	26370	3637
2025	4.82	22509	26530	4021
2025	4.98	22294	26690	4396
2025	5.13	22088	26840	4752
2025	5.29	21889	26990	5101
2025	5.44	21698	27140	5442
2025	5.59	21514	27280	5766
2025	5.75	21336	27420	6084
2025	5.9	21164	27560	6396
2025	6.06	20998	27690	6692
2025	6.21	20838	27820	6982
2025	6.36	20683	27950	7267
2025	6.52	20533	28080	7547
2025	6.67	20387	28200	7813
2025	6.82	20245	28320	8075
2025	6.98	20108	28440	8332
2025	7.13	19974	28560	8586
2025	7.29	19844	28670	8826
2025	7.44	19718	28780	9062
2025	7.59	19595	28890	9295
2025	7.75	19475	29000	9525
2025	7.9	19358	29110	9752
2025	8.06	19244	29220	9976
2025	8.21	19133	29320	10187
2025	8.36	19025	29420	10395
2025	8.52	18919	29520	10601
2025	8.67	18816	29620	10804
2025	8.83	18715	29720	11005
2025	8.98	18616	29820	11204
2025	9.13	18520	29920	11400
2025	9.29	18426	30010	11584
2025	9.44	18334	30100	11766
2025	9.6	18244	30190	11946
2025	9.75	18156	30280	12124
2025	9.9	18069	30370	12301
2025	10.06	17984	30460	12476
2025	10.21	17901	30550	12649
2025	10.37	17819	30640	12821
2025	10.52	17739	30720	12981
2025	10.67	17660	30800	13140
2025	10.83	17583	30880	13297

Appendix 8-4. Biomass Supply Curves in EPA Base Case 2006

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2007	CT, MA, ME, NH, RI, VT	ZB	BM01	0.72	12.2
2007	CT, MA, ME, NH, RI, VT	ZB	BM02	1.18	0.98
2007	CT, MA, ME, NH, RI, VT	ZB	BM03	1.48	0.23
2007	CT, MA, ME, NH, RI, VT	ZB	BM04	1.96	6.85
2007	CT, MA, ME, NH, RI, VT	ZB	BM05	2.34	31.53
2007	CT, MA, ME, NH, RI, VT	ZB	BM06	2.95	74.08
2007	CT, MA, ME, NH, RI, VT	ZB	BM07	4.3	20.87
2007	CT, MA, ME, NH, RI, VT	ZB	BM08	5.72	1.12
2008	CT, MA, ME, NH, RI, VT	ZB	BM01	0.72	12.2
2008	CT, MA, ME, NH, RI, VT	ZB	BM02	1.18	0.98
2008	CT, MA, ME, NH, RI, VT	ZB	BM03	1.48	0.23
2008	CT, MA, ME, NH, RI, VT	ZB	BM04	1.96	6.85
2008	CT, MA, ME, NH, RI, VT	ZB	BM05	2.34	31.53
2008	CT, MA, ME, NH, RI, VT	ZB	BM06	3.02	90.93
2008	CT, MA, ME, NH, RI, VT	ZB	BM07	4.28	26.65
2008	CT, MA, ME, NH, RI, VT	ZB	BM08	5.71	1.13
2009	CT, MA, ME, NH, RI, VT	ZB	BM01	0.72	12.2
2009	CT, MA, ME, NH, RI, VT	ZB	BM02	1.18	0.98
2009	CT, MA, ME, NH, RI, VT	ZB	BM03	1.48	0.23
2009	CT, MA, ME, NH, RI, VT	ZB	BM04	1.96	6.85
2009	CT, MA, ME, NH, RI, VT	ZB	BM05	2.34	31.53
2009	CT, MA, ME, NH, RI, VT	ZB	BM06	3.02	90.93
2009	CT, MA, ME, NH, RI, VT	ZB	BM07	4.28	26.65
2009	CT, MA, ME, NH, RI, VT	ZB	BM08	5.71	1.13
2010	CT, MA, ME, NH, RI, VT	ZB	BM01	0.72	12.2
2010	CT, MA, ME, NH, RI, VT	ZB	BM02	1.18	0.98
2010	CT, MA, ME, NH, RI, VT	ZB	BM03	1.48	0.23
2010	CT, MA, ME, NH, RI, VT	ZB	BM04	1.96	6.85
2010	CT, MA, ME, NH, RI, VT	ZB	BM05	2.34	31.53
2010	CT, MA, ME, NH, RI, VT	ZB	BM06	3.02	90.93
2010	CT, MA, ME, NH, RI, VT	ZB	BM07	4.28	26.65
2010	CT, MA, ME, NH, RI, VT	ZB	BM08	5.71	1.13
2015	CT, MA, ME, NH, RI, VT	ZB	BM01	0.72	12.2
2015	CT, MA, ME, NH, RI, VT	ZB	BM02	1.18	0.98
2015	CT, MA, ME, NH, RI, VT	ZB	BM03	1.48	0.23
2015	CT, MA, ME, NH, RI, VT	ZB	BM04	1.96	6.85
2015	CT, MA, ME, NH, RI, VT	ZB	BM05	2.34	31.53
2015	CT, MA, ME, NH, RI, VT	ZB	BM06	2.99	81.09
2015	CT, MA, ME, NH, RI, VT	ZB	BM07	4.13	39.13
2015	CT, MA, ME, NH, RI, VT	ZB	BM08	5.72	1.12
2020	CT, MA, ME, NH, RI, VT	ZB	BM01	0.72	12.2
2020	CT, MA, ME, NH, RI, VT	ZB	BM02	1.18	0.98
2020	CT, MA, ME, NH, RI, VT	ZB	BM03	1.48	0.23
2020	CT, MA, ME, NH, RI, VT	ZB	BM04	1.96	6.85
2020	CT, MA, ME, NH, RI, VT	ZB	BM05	2.34	31.53
2020	CT, MA, ME, NH, RI, VT	ZB	BM06	3.01	89.21
2020	CT, MA, ME, NH, RI, VT	ZB	BM07	4.03	43.77
2020	CT, MA, ME, NH, RI, VT	ZB	BM08	5.71	1.13
2025	CT, MA, ME, NH, RI, VT	ZB	BM01	0.72	12.2
2025	CT, MA, ME, NH, RI, VT	ZB	BM02	1.18	0.98

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2025	CT, MA, ME, NH, RI, VT	ZB	BM03	1.48	0.23
2025	CT, MA, ME, NH, RI, VT	ZB	BM04	1.96	6.85
2025	CT, MA, ME, NH, RI, VT	ZB	BM05	2.34	31.53
2025	CT, MA, ME, NH, RI, VT	ZB	BM06	3.01	89.21
2025	CT, MA, ME, NH, RI, VT	ZB	BM07	4.03	43.77
2025	CT, MA, ME, NH, RI, VT	ZB	BM08	5.71	1.13
2007	NY, PA, NJ	ZB	BM01	0.73	47.99
2007	NY, PA, NJ	ZB	BM02	1.1	5.68
2007	NY, PA, NJ	ZB	BM03	1.47	0.33
2007	NY, PA, NJ	ZB	BM04	1.92	4.69
2007	NY, PA, NJ	ZB	BM05	2.34	20.12
2007	NY, PA, NJ	ZB	BM06	2.98	75.86
2007	NY, PA, NJ	ZB	BM07	4.15	19.11
2007	NY, PA, NJ	ZB	BM08	5.72	1
2008	NY, PA, NJ	ZB	BM01	0.73	47.99
2008	NY, PA, NJ	ZB	BM02	1.1	5.68
2008	NY, PA, NJ	ZB	BM03	1.47	0.33
2008	NY, PA, NJ	ZB	BM04	1.92	4.69
2008	NY, PA, NJ	ZB	BM05	2.34	20.12
2008	NY, PA, NJ	ZB	BM06	3.1	118.46
2008	NY, PA, NJ	ZB	BM07	4.14	21.13
2008	NY, PA, NJ	ZB	BM08	5.71	1
2009	NY, PA, NJ	ZB	BM01	0.73	47.99
2009	NY, PA, NJ	ZB	BM02	1.1	5.68
2009	NY, PA, NJ	ZB	BM03	1.47	0.33
2009	NY, PA, NJ	ZB	BM04	1.92	4.69
2009	NY, PA, NJ	ZB	BM05	2.34	20.12
2009	NY, PA, NJ	ZB	BM06	3.1	118.46
2009	NY, PA, NJ	ZB	BM07	4.14	21.13
2009	NY, PA, NJ	ZB	BM08	5.71	1
2010	NY, PA, NJ	ZB	BM01	0.73	47.99
2010	NY, PA, NJ	ZB	BM02	1.1	5.68
2010	NY, PA, NJ	ZB	BM03	1.47	0.33
2010	NY, PA, NJ	ZB	BM04	1.92	4.69
2010	NY, PA, NJ	ZB	BM05	2.34	20.12
2010	NY, PA, NJ	ZB	BM06	3.1	118.46
2010	NY, PA, NJ	ZB	BM07	4.14	21.13
2010	NY, PA, NJ	ZB	BM08	5.71	1
2015	NY, PA, NJ	ZB	BM01	0.73	47.99
2015	NY, PA, NJ	ZB	BM02	1.1	5.68
2015	NY, PA, NJ	ZB	BM03	1.47	0.33
2015	NY, PA, NJ	ZB	BM04	1.92	4.69
2015	NY, PA, NJ	ZB	BM05	2.34	20.12
2015	NY, PA, NJ	ZB	BM06	3.07	120
2015	NY, PA, NJ	ZB	BM07	4.04	31.52
2015	NY, PA, NJ	ZB	BM08	5.71	1.01
2020	NY, PA, NJ	ZB	BM01	0.73	47.99
2020	NY, PA, NJ	ZB	BM02	1.1	5.68
2020	NY, PA, NJ	ZB	BM03	1.47	0.33
2020	NY, PA, NJ	ZB	BM04	1.92	4.69
2020	NY, PA, NJ	ZB	BM05	2.34	20.12
2020	NY, PA, NJ	ZB	BM06	3.03	120.28

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2020	NY, PA, NJ	ZB	BM07	4.07	43.81
2020	NY, PA, NJ	ZB	BM08	5.71	1
2025	NY, PA, NJ	ZB	BM01	0.73	47.99
2025	NY, PA, NJ	ZB	BM02	1.1	5.68
2025	NY, PA, NJ	ZB	BM03	1.47	0.33
2025	NY, PA, NJ	ZB	BM04	1.92	4.69
2025	NY, PA, NJ	ZB	BM05	2.34	20.12
2025	NY, PA, NJ	ZB	BM06	3.03	120.8
2025	NY, PA, NJ	ZB	BM07	4.07	43.82
2025	NY, PA, NJ	ZB	BM08	5.71	1.01
2007	WV, MD, DC, DE, VA, NC, SC	ZB	BM01	0.74	22.64
2007	WV, MD, DC, DE, VA, NC, SC	ZB	BM02	1.16	11.38
2007	WV, MD, DC, DE, VA, NC, SC	ZB	BM03	1.53	26.25
2007	WV, MD, DC, DE, VA, NC, SC	ZB	BM04	1.92	136.35
2007	WV, MD, DC, DE, VA, NC, SC	ZB	BM05	2.29	175.29
2007	WV, MD, DC, DE, VA, NC, SC	ZB	BM06	2.86	130.37
2007	WV, MD, DC, DE, VA, NC, SC	ZB	BM07	4.02	22
2007	WV, MD, DC, DE, VA, NC, SC	ZB	BM08	5.77	1.82
2008	WV, MD, DC, DE, VA, NC, SC	ZB	BM01	0.74	22.64
2008	WV, MD, DC, DE, VA, NC, SC	ZB	BM02	1.16	11.38
2008	WV, MD, DC, DE, VA, NC, SC	ZB	BM03	1.53	26.25
2008	WV, MD, DC, DE, VA, NC, SC	ZB	BM04	1.92	136.35
2008	WV, MD, DC, DE, VA, NC, SC	ZB	BM05	2.29	175.29
2008	WV, MD, DC, DE, VA, NC, SC	ZB	BM06	2.88	159.09
2008	WV, MD, DC, DE, VA, NC, SC	ZB	BM07	3.98	36.79
2008	WV, MD, DC, DE, VA, NC, SC	ZB	BM08	5.78	1.82
2009	WV, MD, DC, DE, VA, NC, SC	ZB	BM01	0.74	22.64
2009	WV, MD, DC, DE, VA, NC, SC	ZB	BM02	1.16	11.38
2009	WV, MD, DC, DE, VA, NC, SC	ZB	BM03	1.53	26.25
2009	WV, MD, DC, DE, VA, NC, SC	ZB	BM04	1.92	136.35
2009	WV, MD, DC, DE, VA, NC, SC	ZB	BM05	2.29	175.29
2009	WV, MD, DC, DE, VA, NC, SC	ZB	BM06	2.88	159.09
2009	WV, MD, DC, DE, VA, NC, SC	ZB	BM07	3.98	36.79
2009	WV, MD, DC, DE, VA, NC, SC	ZB	BM08	5.78	1.82
2010	WV, MD, DC, DE, VA, NC, SC	ZB	BM01	0.74	22.64
2010	WV, MD, DC, DE, VA, NC, SC	ZB	BM02	1.16	11.38
2010	WV, MD, DC, DE, VA, NC, SC	ZB	BM03	1.53	26.25
2010	WV, MD, DC, DE, VA, NC, SC	ZB	BM04	1.92	136.35
2010	WV, MD, DC, DE, VA, NC, SC	ZB	BM05	2.29	175.29
2010	WV, MD, DC, DE, VA, NC, SC	ZB	BM06	2.88	159.09
2010	WV, MD, DC, DE, VA, NC, SC	ZB	BM07	3.98	36.79
2010	WV, MD, DC, DE, VA, NC, SC	ZB	BM08	5.78	1.82
2015	WV, MD, DC, DE, VA, NC, SC	ZB	BM01	0.74	22.64
2015	WV, MD, DC, DE, VA, NC, SC	ZB	BM02	1.16	11.38
2015	WV, MD, DC, DE, VA, NC, SC	ZB	BM03	1.53	26.25
2015	WV, MD, DC, DE, VA, NC, SC	ZB	BM04	1.92	136.35
2015	WV, MD, DC, DE, VA, NC, SC	ZB	BM05	2.29	175.47
2015	WV, MD, DC, DE, VA, NC, SC	ZB	BM06	2.93	193.75
2015	WV, MD, DC, DE, VA, NC, SC	ZB	BM07	3.96	68.51
2015	WV, MD, DC, DE, VA, NC, SC	ZB	BM08	5.78	1.81
2020	WV, MD, DC, DE, VA, NC, SC	ZB	BM01	0.74	22.64
2020	WV, MD, DC, DE, VA, NC, SC	ZB	BM02	1.16	11.38

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2020	WV, MD, DC, DE, VA, NC, SC	ZB	BM03	1.53	26.25
2020	WV, MD, DC, DE, VA, NC, SC	ZB	BM04	1.92	136.35
2020	WV, MD, DC, DE, VA, NC, SC	ZB	BM05	2.3	182.91
2020	WV, MD, DC, DE, VA, NC, SC	ZB	BM06	2.89	166.28
2020	WV, MD, DC, DE, VA, NC, SC	ZB	BM07	3.98	44.24
2020	WV, MD, DC, DE, VA, NC, SC	ZB	BM08	5.78	1.82
2025	WV, MD, DC, DE, VA, NC, SC	ZB	BM01	0.74	22.64
2025	WV, MD, DC, DE, VA, NC, SC	ZB	BM02	1.16	11.38
2025	WV, MD, DC, DE, VA, NC, SC	ZB	BM03	1.53	26.25
2025	WV, MD, DC, DE, VA, NC, SC	ZB	BM04	1.92	136.35
2025	WV, MD, DC, DE, VA, NC, SC	ZB	BM05	2.3	182.91
2025	WV, MD, DC, DE, VA, NC, SC	ZB	BM06	2.89	166.67
2025	WV, MD, DC, DE, VA, NC, SC	ZB	BM07	3.98	44.24
2025	WV, MD, DC, DE, VA, NC, SC	ZB	BM08	5.78	1.82
2007	GA, FL	ZB	BM01	0.73	20.75
2007	GA, FL	ZB	BM02	1.16	16.27
2007	GA, FL	ZB	BM03	1.55	16.2
2007	GA, FL	ZB	BM04	1.92	91.26
2007	GA, FL	ZB	BM05	2.28	112.68
2007	GA, FL	ZB	BM06	2.65	84.21
2007	GA, FL	ZB	BM07	3.93	7.99
2007	GA, FL	ZB	BM08	5.78	0.95
2008	GA, FL	ZB	BM01	0.73	20.75
2008	GA, FL	ZB	BM02	1.16	16.27
2008	GA, FL	ZB	BM03	1.55	16.2
2008	GA, FL	ZB	BM04	1.92	91.26
2008	GA, FL	ZB	BM05	2.28	112.68
2008	GA, FL	ZB	BM06	2.7	100.9
2008	GA, FL	ZB	BM07	3.95	13.84
2008	GA, FL	ZB	BM08	5.78	0.96
2009	GA, FL	ZB	BM01	0.73	20.75
2009	GA, FL	ZB	BM02	1.16	16.27
2009	GA, FL	ZB	BM03	1.55	16.2
2009	GA, FL	ZB	BM04	1.92	91.26
2009	GA, FL	ZB	BM05	2.28	112.68
2009	GA, FL	ZB	BM06	2.7	100.9
2009	GA, FL	ZB	BM07	3.95	13.84
2009	GA, FL	ZB	BM08	5.78	0.96
2010	GA, FL	ZB	BM01	0.73	20.75
2010	GA, FL	ZB	BM02	1.16	16.27
2010	GA, FL	ZB	BM03	1.55	16.2
2010	GA, FL	ZB	BM04	1.92	91.26
2010	GA, FL	ZB	BM05	2.28	112.68
2010	GA, FL	ZB	BM06	2.7	100.9
2010	GA, FL	ZB	BM07	3.95	13.84
2010	GA, FL	ZB	BM08	5.78	0.96
2015	GA, FL	ZB	BM01	0.73	20.75
2015	GA, FL	ZB	BM02	1.16	16.27
2015	GA, FL	ZB	BM03	1.55	16.2
2015	GA, FL	ZB	BM04	1.92	91.26
2015	GA, FL	ZB	BM05	2.28	112.68
2015	GA, FL	ZB	BM06	2.79	120.15

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2015	GA, FL	ZB	BM07	3.8	35.64
2015	GA, FL	ZB	BM08	5.78	0.95
2020	GA, FL	ZB	BM01	0.73	20.75
2020	GA, FL	ZB	BM02	1.16	16.27
2020	GA, FL	ZB	BM03	1.55	16.2
2020	GA, FL	ZB	BM04	1.92	91.26
2020	GA, FL	ZB	BM05	2.29	114.34
2020	GA, FL	ZB	BM06	2.7	102.99
2020	GA, FL	ZB	BM07	3.79	19.89
2020	GA, FL	ZB	BM08	5.78	0.95
2025	GA, FL	ZB	BM01	0.73	20.75
2025	GA, FL	ZB	BM02	1.16	16.27
2025	GA, FL	ZB	BM03	1.55	16.2
2025	GA, FL	ZB	BM04	1.92	91.26
2025	GA, FL	ZB	BM05	2.29	114.34
2025	GA, FL	ZB	BM06	2.7	103.13
2025	GA, FL	ZB	BM07	3.79	19.89
2025	GA, FL	ZB	BM08	5.78	0.95
2007	OH	ZB	BM01	0.73	20.75
2007	OH	ZB	BM02	1.16	16.27
2007	OH	ZB	BM03	1.55	16.2
2007	OH	ZB	BM04	1.92	91.26
2007	OH	ZB	BM05	2.28	112.68
2007	OH	ZB	BM06	2.65	84.21
2007	OH	ZB	BM07	3.93	7.99
2007	OH	ZB	BM08	5.78	0.95
2008	OH	ZB	BM01	0.79	3.96
2008	OH	ZB	BM02	1.23	1.84
2008	OH	ZB	BM03	1.34	4.75
2008	OH	ZB	BM04	1.86	7.72
2008	OH	ZB	BM05	2.34	10.39
2008	OH	ZB	BM06	2.79	97
2008	OH	ZB	BM07	4.21	9.39
2008	OH	ZB	BM08	5.7	0.11
2009	OH	ZB	BM01	0.79	3.96
2009	OH	ZB	BM02	1.23	1.84
2009	OH	ZB	BM03	1.34	4.75
2009	OH	ZB	BM04	1.86	7.72
2009	OH	ZB	BM05	2.34	10.39
2009	OH	ZB	BM06	2.79	97
2009	OH	ZB	BM07	4.21	9.39
2009	OH	ZB	BM08	5.7	0.11
2010	OH	ZB	BM01	0.79	3.96
2010	OH	ZB	BM02	1.23	1.84
2010	OH	ZB	BM03	1.34	4.75
2010	OH	ZB	BM04	1.86	7.72
2010	OH	ZB	BM05	2.34	10.39
2010	OH	ZB	BM06	2.79	97
2010	OH	ZB	BM07	4.21	9.39
2010	OH	ZB	BM08	5.7	0.11
2015	OH	ZB	BM01	0.79	3.96
2015	OH	ZB	BM02	1.23	1.84

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2015	OH	ZB	BM03	1.34	4.75
2015	OH	ZB	BM04	1.86	7.72
2015	OH	ZB	BM05	2.34	11.23
2015	OH	ZB	BM06	2.81	107.64
2015	OH	ZB	BM07	4.01	82.21
2015	OH	ZB	BM08	5.7	0.11
2020	OH	ZB	BM01	0.79	3.96
2020	OH	ZB	BM02	1.23	1.84
2020	OH	ZB	BM03	1.34	4.75
2020	OH	ZB	BM04	1.86	7.72
2020	OH	ZB	BM05	2.36	13.35
2020	OH	ZB	BM06	2.78	97.01
2020	OH	ZB	BM07	4	59.88
2020	OH	ZB	BM08	5.7	0.11
2025	OH	ZB	BM01	0.79	3.96
2025	OH	ZB	BM02	1.23	1.84
2025	OH	ZB	BM03	1.34	4.75
2025	OH	ZB	BM04	1.86	7.72
2025	OH	ZB	BM05	2.36	13.35
2025	OH	ZB	BM06	2.78	98.4
2025	OH	ZB	BM07	4	59.88
2025	OH	ZB	BM08	5.7	0.11
2007	IN, IL, MI, WI	ZB	BM01	0.75	14.5
2007	IN, IL, MI, WI	ZB	BM02	1.19	10.61
2007	IN, IL, MI, WI	ZB	BM03	1.46	9.53
2007	IN, IL, MI, WI	ZB	BM04	1.92	45.6
2007	IN, IL, MI, WI	ZB	BM05	2.33	162.32
2007	IN, IL, MI, WI	ZB	BM06	2.79	553.09
2007	IN, IL, MI, WI	ZB	BM07	4.2	29.7
2007	IN, IL, MI, WI	ZB	BM08	5.71	1.51
2008	IN, IL, MI, WI	ZB	BM01	0.75	14.5
2008	IN, IL, MI, WI	ZB	BM02	1.19	10.61
2008	IN, IL, MI, WI	ZB	BM03	1.46	9.53
2008	IN, IL, MI, WI	ZB	BM04	1.92	45.6
2008	IN, IL, MI, WI	ZB	BM05	2.34	165.39
2008	IN, IL, MI, WI	ZB	BM06	2.82	662.31
2008	IN, IL, MI, WI	ZB	BM07	4.2	29.7
2008	IN, IL, MI, WI	ZB	BM08	5.71	1.51
2009	IN, IL, MI, WI	ZB	BM01	0.75	14.5
2009	IN, IL, MI, WI	ZB	BM02	1.19	10.61
2009	IN, IL, MI, WI	ZB	BM03	1.46	9.53
2009	IN, IL, MI, WI	ZB	BM04	1.92	45.6
2009	IN, IL, MI, WI	ZB	BM05	2.34	165.39
2009	IN, IL, MI, WI	ZB	BM06	2.82	662.31
2009	IN, IL, MI, WI	ZB	BM07	4.2	29.7
2009	IN, IL, MI, WI	ZB	BM08	5.71	1.51
2010	IN, IL, MI, WI	ZB	BM01	0.75	14.5
2010	IN, IL, MI, WI	ZB	BM02	1.19	10.61
2010	IN, IL, MI, WI	ZB	BM03	1.46	9.53
2010	IN, IL, MI, WI	ZB	BM04	1.92	45.6
2010	IN, IL, MI, WI	ZB	BM05	2.34	165.39
2010	IN, IL, MI, WI	ZB	BM06	2.82	662.31

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2010	IN, IL, MI, WI	ZB	BM07	4.2	29.7
2010	IN, IL, MI, WI	ZB	BM08	5.71	1.51
2015	IN, IL, MI, WI	ZB	BM01	0.75	14.5
2015	IN, IL, MI, WI	ZB	BM02	1.19	10.61
2015	IN, IL, MI, WI	ZB	BM03	1.46	9.53
2015	IN, IL, MI, WI	ZB	BM04	1.92	45.6
2015	IN, IL, MI, WI	ZB	BM05	2.34	166.97
2015	IN, IL, MI, WI	ZB	BM06	2.84	767.6
2015	IN, IL, MI, WI	ZB	BM07	4.13	65.95
2015	IN, IL, MI, WI	ZB	BM08	5.71	1.52
2020	IN, IL, MI, WI	ZB	BM01	0.75	14.5
2020	IN, IL, MI, WI	ZB	BM02	1.19	10.61
2020	IN, IL, MI, WI	ZB	BM03	1.46	9.53
2020	IN, IL, MI, WI	ZB	BM04	1.92	45.6
2020	IN, IL, MI, WI	ZB	BM05	2.34	177.94
2020	IN, IL, MI, WI	ZB	BM06	2.81	671.69
2020	IN, IL, MI, WI	ZB	BM07	4.06	75.63
2020	IN, IL, MI, WI	ZB	BM08	5.71	1.52
2025	IN, IL, MI, WI	ZB	BM01	0.75	14.5
2025	IN, IL, MI, WI	ZB	BM02	1.19	10.61
2025	IN, IL, MI, WI	ZB	BM03	1.46	9.53
2025	IN, IL, MI, WI	ZB	BM04	1.92	45.6
2025	IN, IL, MI, WI	ZB	BM05	2.34	177.94
2025	IN, IL, MI, WI	ZB	BM06	2.8	682.09
2025	IN, IL, MI, WI	ZB	BM07	4.06	75.66
2025	IN, IL, MI, WI	ZB	BM08	5.71	1.52
2007	KY, TN	ZB	BM01	0.75	4.64
2007	KY, TN	ZB	BM02	1.22	4.85
2007	KY, TN	ZB	BM03	1.41	4.06
2007	KY, TN	ZB	BM04	1.86	20.98
2007	KY, TN	ZB	BM05	2.32	30.9
2007	KY, TN	ZB	BM06	2.96	65.82
2007	KY, TN	ZB	BM07	4.04	17.14
2008	KY, TN	ZB	BM01	0.75	4.64
2008	KY, TN	ZB	BM02	1.22	4.85
2008	KY, TN	ZB	BM03	1.41	4.06
2008	KY, TN	ZB	BM04	1.86	20.98
2008	KY, TN	ZB	BM05	2.38	56.26
2008	KY, TN	ZB	BM06	2.96	130.76
2008	KY, TN	ZB	BM07	4.04	17.14
2009	KY, TN	ZB	BM01	0.75	4.64
2009	KY, TN	ZB	BM02	1.22	4.85
2009	KY, TN	ZB	BM03	1.41	4.06
2009	KY, TN	ZB	BM04	1.86	20.98
2009	KY, TN	ZB	BM05	2.38	56.26
2009	KY, TN	ZB	BM06	2.96	130.76
2009	KY, TN	ZB	BM07	4.04	17.14
2010	KY, TN	ZB	BM01	0.75	4.64
2010	KY, TN	ZB	BM02	1.22	4.85
2010	KY, TN	ZB	BM03	1.41	4.06
2010	KY, TN	ZB	BM04	1.86	20.98
2010	KY, TN	ZB	BM05	2.38	56.26

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2010	KY, TN	ZB	BM06	2.96	130.76
2010	KY, TN	ZB	BM07	4.04	17.14
2015	KY, TN	ZB	BM01	0.75	4.64
2015	KY, TN	ZB	BM02	1.22	4.85
2015	KY, TN	ZB	BM03	1.41	4.06
2015	KY, TN	ZB	BM04	1.86	20.98
2015	KY, TN	ZB	BM05	2.41	110.55
2015	KY, TN	ZB	BM06	2.98	132.42
2015	KY, TN	ZB	BM07	3.95	79.44
2020	KY, TN	ZB	BM01	0.75	4.64
2020	KY, TN	ZB	BM02	1.22	4.85
2020	KY, TN	ZB	BM03	1.41	4.06
2020	KY, TN	ZB	BM04	1.86	20.98
2020	KY, TN	ZB	BM05	2.41	106.15
2020	KY, TN	ZB	BM06	2.96	87.93
2020	KY, TN	ZB	BM07	3.9	41.67
2025	KY, TN	ZB	BM01	0.75	4.64
2025	KY, TN	ZB	BM02	1.22	4.85
2025	KY, TN	ZB	BM03	1.41	4.06
2025	KY, TN	ZB	BM04	1.86	20.98
2025	KY, TN	ZB	BM05	2.41	106.15
2025	KY, TN	ZB	BM06	2.96	87.97
2025	KY, TN	ZB	BM07	3.9	41.68
2007	AL, MS	ZB	BM01	0.73	2.74
2007	AL, MS	ZB	BM02	1.17	3.85
2007	AL, MS	ZB	BM03	1.5	3.31
2007	AL, MS	ZB	BM04	1.9	26.53
2007	AL, MS	ZB	BM05	2.32	50.69
2007	AL, MS	ZB	BM06	2.88	75.46
2007	AL, MS	ZB	BM07	4.08	23.42
2008	AL, MS	ZB	BM01	0.73	2.74
2008	AL, MS	ZB	BM02	1.17	3.85
2008	AL, MS	ZB	BM03	1.5	3.31
2008	AL, MS	ZB	BM04	1.9	26.53
2008	AL, MS	ZB	BM05	2.33	54.18
2008	AL, MS	ZB	BM06	2.91	124.11
2008	AL, MS	ZB	BM07	4.03	47.59
2009	AL, MS	ZB	BM01	0.73	2.74
2009	AL, MS	ZB	BM02	1.17	3.85
2009	AL, MS	ZB	BM03	1.5	3.31
2009	AL, MS	ZB	BM04	1.9	26.53
2009	AL, MS	ZB	BM05	2.33	54.18
2009	AL, MS	ZB	BM06	2.91	124.11
2009	AL, MS	ZB	BM07	4.03	47.59
2010	AL, MS	ZB	BM01	0.73	2.74
2010	AL, MS	ZB	BM02	1.17	3.85
2010	AL, MS	ZB	BM03	1.5	3.31
2010	AL, MS	ZB	BM04	1.9	26.53
2010	AL, MS	ZB	BM05	2.33	54.18
2010	AL, MS	ZB	BM06	2.91	124.11
2010	AL, MS	ZB	BM07	4.03	47.59
2015	AL, MS	ZB	BM01	0.73	2.74

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2015	AL, MS	ZB	BM02	1.17	3.85
2015	AL, MS	ZB	BM03	1.5	3.31
2015	AL, MS	ZB	BM04	1.9	26.53
2015	AL, MS	ZB	BM05	2.34	63.61
2015	AL, MS	ZB	BM06	2.94	207.65
2015	AL, MS	ZB	BM07	4.01	82.23
2020	AL, MS	ZB	BM01	0.73	2.74
2020	AL, MS	ZB	BM02	1.17	3.85
2020	AL, MS	ZB	BM03	1.5	3.31
2020	AL, MS	ZB	BM04	1.9	26.53
2020	AL, MS	ZB	BM05	2.37	90.2
2020	AL, MS	ZB	BM06	2.92	111.11
2020	AL, MS	ZB	BM07	3.94	46.79
2025	AL, MS	ZB	BM01	0.73	2.74
2025	AL, MS	ZB	BM02	1.17	3.85
2025	AL, MS	ZB	BM03	1.5	3.31
2025	AL, MS	ZB	BM04	1.9	26.53
2025	AL, MS	ZB	BM05	2.37	90.2
2025	AL, MS	ZB	BM06	2.92	111.15
2025	AL, MS	ZB	BM07	3.94	46.8
2007	MN, IA, ND, SD, NE, MO, KS	ZB	BM01	0.73	5.2
2007	MN, IA, ND, SD, NE, MO, KS	ZB	BM02	1.09	6.4
2007	MN, IA, ND, SD, NE, MO, KS	ZB	BM03	1.43	6.07
2007	MN, IA, ND, SD, NE, MO, KS	ZB	BM04	1.94	56.3
2007	MN, IA, ND, SD, NE, MO, KS	ZB	BM05	2.33	214.89
2007	MN, IA, ND, SD, NE, MO, KS	ZB	BM06	2.81	1043.67
2007	MN, IA, ND, SD, NE, MO, KS	ZB	BM07	3.98	71.75
2007	MN, IA, ND, SD, NE, MO, KS	ZB	BM08	5.71	2.22
2008	MN, IA, ND, SD, NE, MO, KS	ZB	BM01	0.73	5.2
2008	MN, IA, ND, SD, NE, MO, KS	ZB	BM02	1.09	6.4
2008	MN, IA, ND, SD, NE, MO, KS	ZB	BM03	1.43	6.07
2008	MN, IA, ND, SD, NE, MO, KS	ZB	BM04	1.94	56.3
2008	MN, IA, ND, SD, NE, MO, KS	ZB	BM05	2.34	229.81
2008	MN, IA, ND, SD, NE, MO, KS	ZB	BM06	2.83	1236.03
2008	MN, IA, ND, SD, NE, MO, KS	ZB	BM07	3.94	207.35
2008	MN, IA, ND, SD, NE, MO, KS	ZB	BM08	5.71	2.21
2009	MN, IA, ND, SD, NE, MO, KS	ZB	BM01	0.73	5.2
2009	MN, IA, ND, SD, NE, MO, KS	ZB	BM02	1.09	6.4
2009	MN, IA, ND, SD, NE, MO, KS	ZB	BM03	1.43	6.07
2009	MN, IA, ND, SD, NE, MO, KS	ZB	BM04	1.94	56.3
2009	MN, IA, ND, SD, NE, MO, KS	ZB	BM05	2.34	229.81
2009	MN, IA, ND, SD, NE, MO, KS	ZB	BM06	2.83	1236.03
2009	MN, IA, ND, SD, NE, MO, KS	ZB	BM07	3.94	207.35
2009	MN, IA, ND, SD, NE, MO, KS	ZB	BM08	5.71	2.21
2010	MN, IA, ND, SD, NE, MO, KS	ZB	BM01	0.73	5.2
2010	MN, IA, ND, SD, NE, MO, KS	ZB	BM02	1.09	6.4
2010	MN, IA, ND, SD, NE, MO, KS	ZB	BM03	1.43	6.07
2010	MN, IA, ND, SD, NE, MO, KS	ZB	BM04	1.94	56.3
2010	MN, IA, ND, SD, NE, MO, KS	ZB	BM05	2.34	229.81
2010	MN, IA, ND, SD, NE, MO, KS	ZB	BM06	2.83	1236.03
2010	MN, IA, ND, SD, NE, MO, KS	ZB	BM07	3.94	207.35
2010	MN, IA, ND, SD, NE, MO, KS	ZB	BM08	5.71	2.21

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2015	MN, IA, ND, SD, NE, MO, KS	ZB	BM01	0.73	5.2
2015	MN, IA, ND, SD, NE, MO, KS	ZB	BM02	1.09	6.4
2015	MN, IA, ND, SD, NE, MO, KS	ZB	BM03	1.43	6.07
2015	MN, IA, ND, SD, NE, MO, KS	ZB	BM04	1.94	56.3
2015	MN, IA, ND, SD, NE, MO, KS	ZB	BM05	2.35	242.21
2015	MN, IA, ND, SD, NE, MO, KS	ZB	BM06	2.88	1516.56
2015	MN, IA, ND, SD, NE, MO, KS	ZB	BM07	3.89	565.48
2015	MN, IA, ND, SD, NE, MO, KS	ZB	BM08	5.71	2.22
2020	MN, IA, ND, SD, NE, MO, KS	ZB	BM01	0.73	5.2
2020	MN, IA, ND, SD, NE, MO, KS	ZB	BM02	1.09	6.4
2020	MN, IA, ND, SD, NE, MO, KS	ZB	BM03	1.43	6.07
2020	MN, IA, ND, SD, NE, MO, KS	ZB	BM04	1.94	56.3
2020	MN, IA, ND, SD, NE, MO, KS	ZB	BM05	2.35	250.01
2020	MN, IA, ND, SD, NE, MO, KS	ZB	BM06	2.84	1293.82
2020	MN, IA, ND, SD, NE, MO, KS	ZB	BM07	3.8	293.75
2020	MN, IA, ND, SD, NE, MO, KS	ZB	BM08	5.71	2.21
2025	MN, IA, ND, SD, NE, MO, KS	ZB	BM01	0.73	5.2
2025	MN, IA, ND, SD, NE, MO, KS	ZB	BM02	1.09	6.4
2025	MN, IA, ND, SD, NE, MO, KS	ZB	BM03	1.43	6.07
2025	MN, IA, ND, SD, NE, MO, KS	ZB	BM04	1.94	56.3
2025	MN, IA, ND, SD, NE, MO, KS	ZB	BM05	2.35	250.01
2025	MN, IA, ND, SD, NE, MO, KS	ZB	BM06	2.83	1307.92
2025	MN, IA, ND, SD, NE, MO, KS	ZB	BM07	3.8	293.71
2025	MN, IA, ND, SD, NE, MO, KS	ZB	BM08	5.71	2.22
2007	TX, LA, OK, AR	ZB	BM01	0.74	4.2
2007	TX, LA, OK, AR	ZB	BM02	1.12	9.49
2007	TX, LA, OK, AR	ZB	BM03	1.53	16.24
2007	TX, LA, OK, AR	ZB	BM04	1.95	51.75
2007	TX, LA, OK, AR	ZB	BM05	2.31	88.16
2007	TX, LA, OK, AR	ZB	BM06	2.76	283.61
2007	TX, LA, OK, AR	ZB	BM07	4.11	39.04
2008	TX, LA, OK, AR	ZB	BM01	0.74	4.2
2008	TX, LA, OK, AR	ZB	BM02	1.12	9.49
2008	TX, LA, OK, AR	ZB	BM03	1.53	16.24
2008	TX, LA, OK, AR	ZB	BM04	1.95	51.75
2008	TX, LA, OK, AR	ZB	BM05	2.32	94.96
2008	TX, LA, OK, AR	ZB	BM06	2.82	411.24
2008	TX, LA, OK, AR	ZB	BM07	3.83	119.1
2009	TX, LA, OK, AR	ZB	BM01	0.74	4.2
2009	TX, LA, OK, AR	ZB	BM02	1.12	9.49
2009	TX, LA, OK, AR	ZB	BM03	1.53	16.24
2009	TX, LA, OK, AR	ZB	BM04	1.95	51.75
2009	TX, LA, OK, AR	ZB	BM05	2.32	94.96
2009	TX, LA, OK, AR	ZB	BM06	2.82	411.24
2009	TX, LA, OK, AR	ZB	BM07	3.83	119.1
2010	TX, LA, OK, AR	ZB	BM01	0.74	4.2
2010	TX, LA, OK, AR	ZB	BM02	1.12	9.49
2010	TX, LA, OK, AR	ZB	BM03	1.53	16.24
2010	TX, LA, OK, AR	ZB	BM04	1.95	51.75
2010	TX, LA, OK, AR	ZB	BM05	2.32	94.96
2010	TX, LA, OK, AR	ZB	BM06	2.82	411.24
2010	TX, LA, OK, AR	ZB	BM07	3.83	119.1

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2015	TX, LA, OK, AR	ZB	BM01	0.74	4.2
2015	TX, LA, OK, AR	ZB	BM02	1.12	9.49
2015	TX, LA, OK, AR	ZB	BM03	1.53	16.24
2015	TX, LA, OK, AR	ZB	BM04	1.95	51.75
2015	TX, LA, OK, AR	ZB	BM05	2.33	110.13
2015	TX, LA, OK, AR	ZB	BM06	2.91	526.25
2015	TX, LA, OK, AR	ZB	BM07	3.92	237.46
2020	TX, LA, OK, AR	ZB	BM01	0.74	4.2
2020	TX, LA, OK, AR	ZB	BM02	1.12	9.49
2020	TX, LA, OK, AR	ZB	BM03	1.53	16.24
2020	TX, LA, OK, AR	ZB	BM04	1.95	51.75
2020	TX, LA, OK, AR	ZB	BM05	2.37	164.3
2020	TX, LA, OK, AR	ZB	BM06	2.84	410.95
2020	TX, LA, OK, AR	ZB	BM07	3.83	115.3
2025	TX, LA, OK, AR	ZB	BM01	0.74	4.2
2025	TX, LA, OK, AR	ZB	BM02	1.12	9.49
2025	TX, LA, OK, AR	ZB	BM03	1.53	16.24
2025	TX, LA, OK, AR	ZB	BM04	1.95	51.75
2025	TX, LA, OK, AR	ZB	BM05	2.37	164.3
2025	TX, LA, OK, AR	ZB	BM06	2.84	411.69
2025	TX, LA, OK, AR	ZB	BM07	3.83	115.31
2007	MT, WY, ID	ZB	BM01	0.74	3.04
2007	MT, WY, ID	ZB	BM02	1.11	2.58
2007	MT, WY, ID	ZB	BM03	1.48	4.31
2007	MT, WY, ID	ZB	BM04	1.94	15.55
2007	MT, WY, ID	ZB	BM05	2.33	56.02
2007	MT, WY, ID	ZB	BM06	2.92	160.9
2007	MT, WY, ID	ZB	BM07	4.57	65.79
2007	MT, WY, ID	ZB	BM08	5.72	14.31
2008	MT, WY, ID	ZB	BM01	0.74	3.04
2008	MT, WY, ID	ZB	BM02	1.11	2.58
2008	MT, WY, ID	ZB	BM03	1.48	4.31
2008	MT, WY, ID	ZB	BM04	1.94	15.55
2008	MT, WY, ID	ZB	BM05	2.33	56.02
2008	MT, WY, ID	ZB	BM06	2.92	161.01
2008	MT, WY, ID	ZB	BM07	4.32	91.5
2008	MT, WY, ID	ZB	BM08	5.72	14.32
2009	MT, WY, ID	ZB	BM01	0.74	3.04
2009	MT, WY, ID	ZB	BM02	1.11	2.58
2009	MT, WY, ID	ZB	BM03	1.48	4.31
2009	MT, WY, ID	ZB	BM04	1.94	15.55
2009	MT, WY, ID	ZB	BM05	2.33	56.02
2009	MT, WY, ID	ZB	BM06	2.92	161.01
2009	MT, WY, ID	ZB	BM07	4.32	91.5
2009	MT, WY, ID	ZB	BM08	5.72	14.32
2010	MT, WY, ID	ZB	BM01	0.74	3.04
2010	MT, WY, ID	ZB	BM02	1.11	2.58
2010	MT, WY, ID	ZB	BM03	1.48	4.31
2010	MT, WY, ID	ZB	BM04	1.94	15.55
2010	MT, WY, ID	ZB	BM05	2.33	56.02
2010	MT, WY, ID	ZB	BM06	2.92	161.01
2010	MT, WY, ID	ZB	BM07	4.32	91.5

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2010	MT, WY, ID	ZB	BM08	5.72	14.32
2015	MT, WY, ID	ZB	BM01	0.74	3.04
2015	MT, WY, ID	ZB	BM02	1.11	2.58
2015	MT, WY, ID	ZB	BM03	1.48	4.31
2015	MT, WY, ID	ZB	BM04	1.94	15.55
2015	MT, WY, ID	ZB	BM05	2.33	56.02
2015	MT, WY, ID	ZB	BM06	2.93	168.04
2015	MT, WY, ID	ZB	BM07	4.21	114.85
2015	MT, WY, ID	ZB	BM08	5.72	14.32
2020	MT, WY, ID	ZB	BM01	0.74	3.04
2020	MT, WY, ID	ZB	BM02	1.11	2.58
2020	MT, WY, ID	ZB	BM03	1.48	4.31
2020	MT, WY, ID	ZB	BM04	1.94	15.55
2020	MT, WY, ID	ZB	BM05	2.33	56.02
2020	MT, WY, ID	ZB	BM06	2.97	185.76
2020	MT, WY, ID	ZB	BM07	4.5	71.67
2020	MT, WY, ID	ZB	BM08	5.72	14.31
2025	MT, WY, ID	ZB	BM01	0.74	3.04
2025	MT, WY, ID	ZB	BM02	1.11	2.58
2025	MT, WY, ID	ZB	BM03	1.48	4.31
2025	MT, WY, ID	ZB	BM04	1.94	15.55
2025	MT, WY, ID	ZB	BM05	2.33	56.02
2025	MT, WY, ID	ZB	BM06	2.97	186.33
2025	MT, WY, ID	ZB	BM07	4.5	71.67
2025	MT, WY, ID	ZB	BM08	5.72	14.31
2007	CO, UT, NV	ZB	BM01	0.75	0.47
2007	CO, UT, NV	ZB	BM02	1.2	0.91
2007	CO, UT, NV	ZB	BM03	1.43	0.62
2007	CO, UT, NV	ZB	BM04	1.86	2.81
2007	CO, UT, NV	ZB	BM05	2.32	7.76
2007	CO, UT, NV	ZB	BM06	2.9	15.35
2007	CO, UT, NV	ZB	BM07	4.52	6.5
2007	CO, UT, NV	ZB	BM08	5.73	1.18
2008	CO, UT, NV	ZB	BM01	0.75	0.47
2008	CO, UT, NV	ZB	BM02	1.2	0.91
2008	CO, UT, NV	ZB	BM03	1.43	0.62
2008	CO, UT, NV	ZB	BM04	1.86	2.81
2008	CO, UT, NV	ZB	BM05	2.32	7.76
2008	CO, UT, NV	ZB	BM06	2.9	15.35
2008	CO, UT, NV	ZB	BM07	4.52	6.51
2008	CO, UT, NV	ZB	BM08	5.74	1.18
2009	CO, UT, NV	ZB	BM01	0.75	0.47
2009	CO, UT, NV	ZB	BM02	1.2	0.91
2009	CO, UT, NV	ZB	BM03	1.43	0.62
2009	CO, UT, NV	ZB	BM04	1.86	2.81
2009	CO, UT, NV	ZB	BM05	2.32	7.76
2009	CO, UT, NV	ZB	BM06	2.9	15.35
2009	CO, UT, NV	ZB	BM07	4.52	6.51
2009	CO, UT, NV	ZB	BM08	5.74	1.18
2010	CO, UT, NV	ZB	BM01	0.75	0.47
2010	CO, UT, NV	ZB	BM02	1.2	0.91
2010	CO, UT, NV	ZB	BM03	1.43	0.62

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2010	CO, UT, NV	ZB	BM04	1.86	2.81
2010	CO, UT, NV	ZB	BM05	2.32	7.76
2010	CO, UT, NV	ZB	BM06	2.9	15.35
2010	CO, UT, NV	ZB	BM07	4.52	6.51
2010	CO, UT, NV	ZB	BM08	5.74	1.18
2015	CO, UT, NV	ZB	BM01	0.75	0.47
2015	CO, UT, NV	ZB	BM02	1.2	0.91
2015	CO, UT, NV	ZB	BM03	1.43	0.62
2015	CO, UT, NV	ZB	BM04	1.86	2.81
2015	CO, UT, NV	ZB	BM05	2.32	7.76
2015	CO, UT, NV	ZB	BM06	2.9	15.37
2015	CO, UT, NV	ZB	BM07	4.52	6.51
2015	CO, UT, NV	ZB	BM08	5.74	1.18
2020	CO, UT, NV	ZB	BM01	0.75	0.47
2020	CO, UT, NV	ZB	BM02	1.2	0.91
2020	CO, UT, NV	ZB	BM03	1.43	0.62
2020	CO, UT, NV	ZB	BM04	1.86	2.81
2020	CO, UT, NV	ZB	BM05	2.32	7.76
2020	CO, UT, NV	ZB	BM06	2.9	15.39
2020	CO, UT, NV	ZB	BM07	4.52	6.51
2020	CO, UT, NV	ZB	BM08	5.74	1.18
2025	CO, UT, NV	ZB	BM01	0.75	0.47
2025	CO, UT, NV	ZB	BM02	1.2	0.91
2025	CO, UT, NV	ZB	BM03	1.43	0.62
2025	CO, UT, NV	ZB	BM04	1.86	2.81
2025	CO, UT, NV	ZB	BM05	2.32	7.76
2025	CO, UT, NV	ZB	BM06	2.9	15.41
2025	CO, UT, NV	ZB	BM07	4.52	6.51
2025	CO, UT, NV	ZB	BM08	5.74	1.18
2007	AZ, NM	ZB	BM01	0.75	0.47
2007	AZ, NM	ZB	BM02	1.2	0.91
2007	AZ, NM	ZB	BM03	1.43	0.62
2007	AZ, NM	ZB	BM04	1.86	2.81
2007	AZ, NM	ZB	BM05	2.32	7.76
2007	AZ, NM	ZB	BM06	2.9	15.35
2007	AZ, NM	ZB	BM07	4.52	6.5
2007	AZ, NM	ZB	BM08	5.73	1.18
2008	AZ, NM	ZB	BM01	0.75	0.47
2008	AZ, NM	ZB	BM02	1.2	0.91
2008	AZ, NM	ZB	BM03	1.43	0.62
2008	AZ, NM	ZB	BM04	1.86	2.81
2008	AZ, NM	ZB	BM05	2.32	7.76
2008	AZ, NM	ZB	BM06	2.9	15.35
2008	AZ, NM	ZB	BM07	4.52	6.51
2008	AZ, NM	ZB	BM08	5.74	1.18
2009	AZ, NM	ZB	BM01	0.75	0.47
2009	AZ, NM	ZB	BM02	1.2	0.91
2009	AZ, NM	ZB	BM03	1.43	0.62
2009	AZ, NM	ZB	BM04	1.86	2.81
2009	AZ, NM	ZB	BM05	2.32	7.76
2009	AZ, NM	ZB	BM06	2.9	15.35
2009	AZ, NM	ZB	BM07	4.52	6.51

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2009	AZ, NM	ZB	BM08	5.74	1.18
2010	AZ, NM	ZB	BM01	0.75	0.47
2010	AZ, NM	ZB	BM02	1.2	0.91
2010	AZ, NM	ZB	BM03	1.43	0.62
2010	AZ, NM	ZB	BM04	1.86	2.81
2010	AZ, NM	ZB	BM05	2.32	7.76
2010	AZ, NM	ZB	BM06	2.9	15.35
2010	AZ, NM	ZB	BM07	4.52	6.51
2010	AZ, NM	ZB	BM08	5.74	1.18
2015	AZ, NM	ZB	BM01	0.75	0.47
2015	AZ, NM	ZB	BM02	1.2	0.91
2015	AZ, NM	ZB	BM03	1.43	0.62
2015	AZ, NM	ZB	BM04	1.86	2.81
2015	AZ, NM	ZB	BM05	2.32	7.76
2015	AZ, NM	ZB	BM06	2.9	15.37
2015	AZ, NM	ZB	BM07	4.52	6.51
2015	AZ, NM	ZB	BM08	5.74	1.18
2020	AZ, NM	ZB	BM01	0.75	0.47
2020	AZ, NM	ZB	BM02	1.2	0.91
2020	AZ, NM	ZB	BM03	1.43	0.62
2020	AZ, NM	ZB	BM04	1.86	2.81
2020	AZ, NM	ZB	BM05	2.32	7.76
2020	AZ, NM	ZB	BM06	2.9	15.39
2020	AZ, NM	ZB	BM07	4.52	6.51
2020	AZ, NM	ZB	BM08	5.74	1.18
2025	AZ, NM	ZB	BM01	0.75	0.47
2025	AZ, NM	ZB	BM02	1.2	0.91
2025	AZ, NM	ZB	BM03	1.43	0.62
2025	AZ, NM	ZB	BM04	1.86	2.81
2025	AZ, NM	ZB	BM05	2.32	7.76
2025	AZ, NM	ZB	BM06	2.9	15.41
2025	AZ, NM	ZB	BM07	4.52	6.51
2025	AZ, NM	ZB	BM08	5.74	1.18
2007	AK, HI, WA, OR, CA	ZB	BM01	0.73	10.18
2007	AK, HI, WA, OR, CA	ZB	BM02	1.06	14.24
2007	AK, HI, WA, OR, CA	ZB	BM03	1.52	22.08
2007	AK, HI, WA, OR, CA	ZB	BM04	1.91	21.28
2007	AK, HI, WA, OR, CA	ZB	BM05	2.24	60.16
2007	AK, HI, WA, OR, CA	ZB	BM06	2.8	182.19
2007	AK, HI, WA, OR, CA	ZB	BM07	4.1	65.37
2007	AK, HI, WA, OR, CA	ZB	BM08	5.82	6.94
2008	AK, HI, WA, OR, CA	ZB	BM01	0.73	10.18
2008	AK, HI, WA, OR, CA	ZB	BM02	1.06	14.24
2008	AK, HI, WA, OR, CA	ZB	BM03	1.52	22.08
2008	AK, HI, WA, OR, CA	ZB	BM04	1.91	21.28
2008	AK, HI, WA, OR, CA	ZB	BM05	2.24	60.16
2008	AK, HI, WA, OR, CA	ZB	BM06	2.8	182.21
2008	AK, HI, WA, OR, CA	ZB	BM07	4.1	65.37
2008	AK, HI, WA, OR, CA	ZB	BM08	5.82	6.94
2009	AK, HI, WA, OR, CA	ZB	BM01	0.73	10.18
2009	AK, HI, WA, OR, CA	ZB	BM02	1.06	14.24
2009	AK, HI, WA, OR, CA	ZB	BM03	1.52	22.08

Year	Biomass Supply Region	Biomass	Step Name	Cost of Production (2004$/Ton)	Biomass Production (Trillion Btu/Year)
2009	AK, HI, WA, OR, CA	ZB	BM04	1.91	21.28
2009	AK, HI, WA, OR, CA	ZB	BM05	2.24	60.16
2009	AK, HI, WA, OR, CA	ZB	BM06	2.8	182.21
2009	AK, HI, WA, OR, CA	ZB	BM07	4.1	65.37
2009	AK, HI, WA, OR, CA	ZB	BM08	5.82	6.94
2010	AK, HI, WA, OR, CA	ZB	BM01	0.73	10.18
2010	AK, HI, WA, OR, CA	ZB	BM02	1.06	14.24
2010	AK, HI, WA, OR, CA	ZB	BM03	1.52	22.08
2010	AK, HI, WA, OR, CA	ZB	BM04	1.91	21.28
2010	AK, HI, WA, OR, CA	ZB	BM05	2.24	60.16
2010	AK, HI, WA, OR, CA	ZB	BM06	2.8	182.21
2010	AK, HI, WA, OR, CA	ZB	BM07	4.1	65.37
2010	AK, HI, WA, OR, CA	ZB	BM08	5.82	6.94
2015	AK, HI, WA, OR, CA	ZB	BM01	0.73	10.18
2015	AK, HI, WA, OR, CA	ZB	BM02	1.06	14.24
2015	AK, HI, WA, OR, CA	ZB	BM03	1.52	22.08
2015	AK, HI, WA, OR, CA	ZB	BM04	1.91	21.28
2015	AK, HI, WA, OR, CA	ZB	BM05	2.24	60.16
2015	AK, HI, WA, OR, CA	ZB	BM06	2.8	182.31
2015	AK, HI, WA, OR, CA	ZB	BM07	4.1	65.37
2015	AK, HI, WA, OR, CA	ZB	BM08	5.82	6.94
2020	AK, HI, WA, OR, CA	ZB	BM01	0.73	10.18
2020	AK, HI, WA, OR, CA	ZB	BM02	1.06	14.24
2020	AK, HI, WA, OR, CA	ZB	BM03	1.52	22.08
2020	AK, HI, WA, OR, CA	ZB	BM04	1.91	21.28
2020	AK, HI, WA, OR, CA	ZB	BM05	2.24	60.16
2020	AK, HI, WA, OR, CA	ZB	BM06	2.8	182.41
2020	AK, HI, WA, OR, CA	ZB	BM07	4.1	65.37
2020	AK, HI, WA, OR, CA	ZB	BM08	5.82	6.94
2025	AK, HI, WA, OR, CA	ZB	BM01	0.73	10.18
2025	AK, HI, WA, OR, CA	ZB	BM02	1.06	14.24
2025	AK, HI, WA, OR, CA	ZB	BM03	1.52	22.08
2025	AK, HI, WA, OR, CA	ZB	BM04	1.91	21.28
2025	AK, HI, WA, OR, CA	ZB	BM05	2.24	60.16
2025	AK, HI, WA, OR, CA	ZB	BM06	2.8	182.51
2025	AK, HI, WA, OR, CA	ZB	BM07	4.1	65.37
2025	AK, HI, WA, OR, CA	ZB	BM08	5.82	6.94

Appendix 8-5. Coal Supply Curves in EPA Base Case 2006

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	AL	BB	EU01	24.82	27.2	5.476	105.497
2007	AL	BB	EU02	24.82	37.88	5.476	105.497
2007	AL	BB	NM01	24.82	46.25	4	80
2007	AL	BB	NM02	24.82	65.57	2.65	52.99
2007	AL	BD	EU01	24.29	37.88	1.008	87.924
2007	AL	BD	ES02	24.29	39.99	0.315	12.698
2007	AL	BD	NM01	24.29	49.28	2	20
2007	AL	BD	ES03	24.29	51.88	0.079	3.175
2007	AL	BD	NM02	24.29	54.33	2	20
2007	AL	BD	NM03	24.29	59.37	2	20
2007	AL	BD	NM04	24.29	64.41	2	20
2007	AL	BD	NM05	24.29	69.45	2	20
2007	AL	BD	NM06	24.29	74.49	2	20
2007	AL	BD	NM07	24.29	79.53	2	20
2007	AL	BD	NM08	24.29	84.58	2	20
2007	AL	BD	NM09	24.29	89.62	2	20
2007	AL	BD	NM10	24.29	93.67	1.61	16.1
2007	AL	BE	EU01	23.82	27.2	5.917	261.198
2007	AL	BE	NM01	23.82	32.16	1.5	15
2007	AL	BE	NM02	23.82	33.96	1.5	15
2007	AL	BE	ES01	23.82	35.03	0.083	2.88
2007	AL	BE	NM03	23.82	35.75	1.5	15
2007	AL	BE	NM04	23.82	37.56	1.5	15
2007	AL	BE	ES02	23.82	38.72	1.501	51.834
2007	AL	BE	NM05	23.82	39.35	1.5	15
2007	AL	BE	NM06	23.82	41.16	1.5	15
2007	AL	BE	NM07	23.82	42.95	1.5	15
2007	AL	BE	NM08	23.82	44.76	1.5	15
2007	AL	BE	NM09	23.82	46.55	1.5	15
2007	AL	BE	NM10	23.82	48.35	1.5	15
2007	AL	BE	NM11	23.82	50.15	1.5	15
2007	AL	BE	NM12	23.82	51.95	1.5	15
2007	AL	BE	NM13	23.82	53.75	1.5	15
2007	AL	BE	NM14	23.82	55.55	1.5	15
2007	AL	BE	NM15	23.82	57.35	1.5	15
2007	AL	BE	NM16	23.82	59.15	1.5	15
2007	AL	BE	NM17	23.82	60.94	1.5	15
2007	AL	BE	NM18	23.82	62.75	1.5	15
2007	AL	BE	NM19	23.82	64.54	1.5	15
2007	AL	BE	NM20	23.82	66.35	1.5	15
2007	AL	BE	NM21	23.82	68.15	1.5	15
2007	AL	BE	NM22	23.82	69.95	1.5	15
2007	AL	BE	NM23	23.82	71.75	1.5	15
2007	AL	BE	NM24	23.82	73.54	1.5	15
2007	AL	BE	NM25	23.82	75.35	1.5	15
2007	AL	BE	ES03	23.82	76.12	0.083	2.88
2007	AL	BE	NM26	23.82	77.14	1.5	15
2007	AL	BE	NM27	23.82	78.95	1.5	15
2007	AL	BE	NM28	23.82	80.74	1.5	15
2007	AL	BE	NM29	23.82	82.54	1.5	15
2007	AL	BE	NM30	23.82	84.34	1.5	15
2007	AL	BE	NM31	23.82	86.14	1.5	15
2007	AL	BE	NM32	23.82	87.94	1.5	15
2007	AL	BE	NM33	23.82	89.74	1.5	15
2007	AL	BE	NM34	23.82	91.54	1.5	15
2007	AL	BE	NM35	23.82	93.34	1.5	15
2007	AL	BE	NM36	23.82	95.14	1.5	15
2007	AL	BE	NM37	23.82	96.94	1.5	15
2007	AL	BE	NM38	23.82	98.73	1.5	15
2007	AL	BE	NM39	23.82	100.54	1.5	15
2007	AL	BE	NM40	23.82	101.53	0.33	3.31
2007	AL	BG	EU01	23.95	27.2	0.188	2.95
2007	AL	BG	NM01	23.95	36.6	0.5	2.5
2007	AL	BG	NM02	23.95	39.12	0.5	2.5
2007	AL	BG	NM03	23.95	41.64	0.5	2.5
2007	AL	BG	NM04	23.95	44.16	0.5	2.5
2007	AL	BG	NM05	23.95	46.67	0.5	2.5
2007	AL	BG	NM06	23.95	49.19	0.5	2.5
2007	AL	BG	NM07	23.95	51.71	0.5	2.5
2007	AL	BG	NM08	23.95	54.23	0.5	2.5
2007	AL	BG	NM09	23.95	56.75	0.5	2.5
2007	AL	BG	NM10	23.95	59.28	0.5	2.5
2007	AL	BG	NM11	23.95	61.8	0.5	2.5
2007	AL	BG	NM12	23.95	64.32	0.5	2.5

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	AL	BG	NM13	23.95	66.84	0.5	2.5
2007	AL	BG	NM14	23.95	69.36	0.5	2.5
2007	AL	BG	NM15	23.95	71.88	0.5	2.5
2007	AL	BG	NM16	23.95	74.4	0.5	2.5
2007	AL	BG	ES02	23.95	76.12	0.371	19.755
2007	AL	BG	NM17	23.95	76.92	0.5	2.5
2007	AL	BG	NM18	23.95	79.44	0.5	2.5
2007	AL	BG	NM19	23.95	81.96	0.5	2.5
2007	AL	BG	NM20	23.95	84.48	0.5	2.5
2007	AL	BG	NM21	23.95	87	0.5	2.5
2007	AL	BG	NM22	23.95	89.53	0.5	2.5
2007	AL	BG	NM23	23.95	92.05	0.5	2.5
2007	AL	BG	NM24	23.95	94.56	0.5	2.5
2007	AL	BG	NM25	23.95	97.08	0.5	2.5
2008	AL	BB	EU01	24.82	27.09	5.476	105.497
2008	AL	BB	EU02	24.82	37.72	5.476	105.497
2008	AL	BB	NM01	24.82	46.07	4	80
2008	AL	BB	NM02	24.82	65.3	2.65	52.99
2008	AL	BD	EU01	24.29	37.72	1.008	87.924
2008	AL	BD	ES02	24.29	39.83	0.315	12.698
2008	AL	BD	NM01	24.29	49.09	2	20
2008	AL	BD	ES03	24.29	51.67	0.079	3.175
2008	AL	BD	NM02	24.29	54.11	2	20
2008	AL	BD	NM03	24.29	59.13	2	20
2008	AL	BD	NM04	24.29	64.15	2	20
2008	AL	BD	NM05	24.29	69.17	2	20
2008	AL	BD	NM06	24.29	74.19	2	20
2008	AL	BD	NM07	24.29	79.21	2	20
2008	AL	BD	NM08	24.29	84.23	2	20
2008	AL	BD	NM09	24.29	89.26	2	20
2008	AL	BD	NM10	24.29	93.31	1.61	16.1
2008	AL	BE	EU01	23.82	27.09	5.917	261.198
2008	AL	BE	NM01	23.82	32.03	1.5	15
2008	AL	BE	NM02	23.82	33.82	1.5	15
2008	AL	BE	ES01	23.82	34.89	0.083	2.88
2008	AL	BE	NM03	23.82	35.62	1.5	15
2008	AL	BE	NM04	23.82	37.4	1.5	15
2008	AL	BE	ES02	23.82	38.56	1.501	51.834
2008	AL	BE	NM05	23.82	39.19	1.5	15
2008	AL	BE	NM06	23.82	40.99	1.5	15
2008	AL	BE	NM07	23.82	42.78	1.5	15
2008	AL	BE	NM08	23.82	44.57	1.5	15
2008	AL	BE	NM09	23.82	46.37	1.5	15
2008	AL	BE	NM10	23.82	48.16	1.5	15
2008	AL	BE	NM11	23.82	49.95	1.5	15
2008	AL	BE	NM12	23.82	51.74	1.5	15
2008	AL	BE	NM13	23.82	53.54	1.5	15
2008	AL	BE	NM14	23.82	55.33	1.5	15
2008	AL	BE	NM15	23.82	57.12	1.5	15
2008	AL	BE	NM16	23.82	58.91	1.5	15
2008	AL	BE	NM17	23.82	60.71	1.5	15
2008	AL	BE	NM18	23.82	62.49	1.5	15
2008	AL	BE	NM19	23.82	64.29	1.5	15
2008	AL	BE	NM20	23.82	66.08	1.5	15
2008	AL	BE	NM21	23.82	67.88	1.5	15
2008	AL	BE	NM22	23.82	69.66	1.5	15
2008	AL	BE	NM23	23.82	71.46	1.5	15
2008	AL	BE	NM24	23.82	73.25	1.5	15
2008	AL	BE	NM25	23.82	75.05	1.5	15
2008	AL	BE	ES03	23.82	75.81	0.083	2.88
2008	AL	BE	NM26	23.82	76.83	1.5	15
2008	AL	BE	NM27	23.82	78.63	1.5	15
2008	AL	BE	NM28	23.82	80.42	1.5	15
2008	AL	BE	NM29	23.82	82.21	1.5	15
2008	AL	BE	NM30	23.82	84.01	1.5	15
2008	AL	BE	NM31	23.82	85.8	1.5	15
2008	AL	BE	NM32	23.82	87.59	1.5	15
2008	AL	BE	NM33	23.82	89.38	1.5	15
2008	AL	BE	NM34	23.82	91.18	1.5	15
2008	AL	BE	NM35	23.82	92.97	1.5	15
2008	AL	BE	NM36	23.82	94.75	1.5	15
2008	AL	BE	NM37	23.82	96.55	1.5	15
2008	AL	BE	NM38	23.82	98.34	1.5	15
2008	AL	BE	NM39	23.82	100.14	1.5	15
2008	AL	BE	NM40	23.82	101.12	0.33	3.31
2008	AL	BG	EU01	23.95	27.09	0.188	2.95
2008	AL	BG	NM01	23.95	36.45	0.5	2.5

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	AL	BG	NM02	23.95	38.96	0.5	2.5
2008	AL	BG	NM03	23.95	41.47	0.5	2.5
2008	AL	BG	NM04	23.95	43.98	0.5	2.5
2008	AL	BG	NM05	23.95	46.49	0.5	2.5
2008	AL	BG	NM06	23.95	49	0.5	2.5
2008	AL	BG	NM07	23.95	51.51	0.5	2.5
2008	AL	BG	NM08	23.95	54.02	0.5	2.5
2008	AL	BG	NM09	23.95	56.53	0.5	2.5
2008	AL	BG	NM10	23.95	59.04	0.5	2.5
2008	AL	BG	NM11	23.95	61.55	0.5	2.5
2008	AL	BG	NM12	23.95	64.07	0.5	2.5
2008	AL	BG	NM13	23.95	66.57	0.5	2.5
2008	AL	BG	NM14	23.95	69.08	0.5	2.5
2008	AL	BG	NM15	23.95	71.59	0.5	2.5
2008	AL	BG	NM16	23.95	74.1	0.5	2.5
2008	AL	BG	ES02	23.95	75.81	0.371	19.755
2008	AL	BG	NM17	23.95	76.62	0.5	2.5
2008	AL	BG	NM18	23.95	79.13	0.5	2.5
2008	AL	BG	NM19	23.95	81.63	0.5	2.5
2008	AL	BG	NM20	23.95	84.14	0.5	2.5
2008	AL	BG	NM21	23.95	86.65	0.5	2.5
2008	AL	BG	NM22	23.95	89.16	0.5	2.5
2008	AL	BG	NM23	23.95	91.68	0.5	2.5
2008	AL	BG	NM24	23.95	94.19	0.5	2.5
2008	AL	BG	NM25	23.95	96.69	0.5	2.5
2009	AL	BB	EU01	24.82	26.99	5.476	105.497
2009	AL	BB	EU02	24.82	37.58	5.476	105.497
2009	AL	BB	NM01	24.82	45.88	4	80
2009	AL	BB	NM02	24.82	65.05	2.65	52.99
2009	AL	BD	EU01	24.29	37.58	1.008	87.924
2009	AL	BD	ES02	24.29	39.66	0.315	12.698
2009	AL	BD	NM01	24.29	48.89	2	20
2009	AL	BD	ES03	24.29	51.46	0.079	3.175
2009	AL	BD	NM02	24.29	53.9	2	20
2009	AL	BD	NM03	24.29	58.89	2	20
2009	AL	BD	NM04	24.29	63.9	2	20
2009	AL	BD	NM05	24.29	68.89	2	20
2009	AL	BD	NM06	24.29	73.9	2	20
2009	AL	BD	NM07	24.29	78.89	2	20
2009	AL	BD	NM08	24.29	83.9	2	20
2009	AL	BD	NM09	24.29	88.9	2	20
2009	AL	BD	NM10	24.29	92.93	1.61	16.1
2009	AL	BE	EU01	23.82	26.99	5.917	261.198
2009	AL	BE	NM01	23.82	31.9	1.5	15
2009	AL	BE	NM02	23.82	33.69	1.5	15
2009	AL	BE	ES01	23.82	34.75	0.083	2.88
2009	AL	BE	NM03	23.82	35.47	1.5	15
2009	AL	BE	NM04	23.82	37.26	1.5	15
2009	AL	BE	ES02	23.82	38.4	1.501	51.834
2009	AL	BE	NM05	23.82	39.04	1.5	15
2009	AL	BE	NM06	23.82	40.82	1.5	15
2009	AL	BE	NM07	23.82	42.62	1.5	15
2009	AL	BE	NM08	23.82	44.39	1.5	15
2009	AL	BE	NM09	23.82	46.18	1.5	15
2009	AL	BE	NM10	23.82	47.97	1.5	15
2009	AL	BE	NM11	23.82	49.75	1.5	15
2009	AL	BE	NM12	23.82	51.54	1.5	15
2009	AL	BE	NM13	23.82	53.32	1.5	15
2009	AL	BE	NM14	23.82	55.1	1.5	15
2009	AL	BE	NM15	23.82	56.9	1.5	15
2009	AL	BE	NM16	23.82	58.67	1.5	15
2009	AL	BE	NM17	23.82	60.46	1.5	15
2009	AL	BE	NM18	23.82	62.25	1.5	15
2009	AL	BE	NM19	23.82	64.03	1.5	15
2009	AL	BE	NM20	23.82	65.82	1.5	15
2009	AL	BE	NM21	23.82	67.6	1.5	15
2009	AL	BE	NM22	23.82	69.38	1.5	15
2009	AL	BE	NM23	23.82	71.18	1.5	15
2009	AL	BE	NM24	23.82	72.96	1.5	15
2009	AL	BE	NM25	23.82	74.74	1.5	15
2009	AL	BE	ES03	23.82	75.5	0.083	2.88
2009	AL	BE	NM26	23.82	76.53	1.5	15
2009	AL	BE	NM27	23.82	78.31	1.5	15
2009	AL	BE	NM28	23.82	80.1	1.5	15
2009	AL	BE	NM29	23.82	81.89	1.5	15
2009	AL	BE	NM30	23.82	83.66	1.5	15
2009	AL	BE	NM31	23.82	85.46	1.5	15

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	AL	BE	NM32	23.82	87.24	1.5	15
2009	AL	BE	NM33	23.82	89.02	1.5	15
2009	AL	BE	NM34	23.82	90.81	1.5	15
2009	AL	BE	NM35	23.82	92.59	1.5	15
2009	AL	BE	NM36	23.82	94.38	1.5	15
2009	AL	BE	NM37	23.82	96.17	1.5	15
2009	AL	BE	NM38	23.82	97.94	1.5	15
2009	AL	BE	NM39	23.82	99.74	1.5	15
2009	AL	BE	NM40	23.82	100.72	0.33	3.31
2009	AL	BG	EU01	23.95	26.99	0.188	2.95
2009	AL	BG	NM01	23.95	36.31	0.5	2.5
2009	AL	BG	NM02	23.95	38.8	0.5	2.5
2009	AL	BG	NM03	23.95	41.3	0.5	2.5
2009	AL	BG	NM04	23.95	43.8	0.5	2.5
2009	AL	BG	NM05	23.95	46.31	0.5	2.5
2009	AL	BG	NM06	23.95	48.8	0.5	2.5
2009	AL	BG	NM07	23.95	51.3	0.5	2.5
2009	AL	BG	NM08	23.95	53.81	0.5	2.5
2009	AL	BG	NM09	23.95	56.31	0.5	2.5
2009	AL	BG	NM10	23.95	58.8	0.5	2.5
2009	AL	BG	NM11	23.95	61.3	0.5	2.5
2009	AL	BG	NM12	23.95	63.81	0.5	2.5
2009	AL	BG	NM13	23.95	66.31	0.5	2.5
2009	AL	BG	NM14	23.95	68.8	0.5	2.5
2009	AL	BG	NM15	23.95	71.3	0.5	2.5
2009	AL	BG	NM16	23.95	73.81	0.5	2.5
2009	AL	BG	ES02	23.95	75.5	0.371	19.755
2009	AL	BG	NM17	23.95	76.31	0.5	2.5
2009	AL	BG	NM18	23.95	78.8	0.5	2.5
2009	AL	BG	NM19	23.95	81.31	0.5	2.5
2009	AL	BG	NM20	23.95	83.81	0.5	2.5
2009	AL	BG	NM21	23.95	86.3	0.5	2.5
2009	AL	BG	NM22	23.95	88.8	0.5	2.5
2009	AL	BG	NM23	23.95	91.31	0.5	2.5
2009	AL	BG	NM24	23.95	93.81	0.5	2.5
2009	AL	BG	NM25	23.95	96.3	0.5	2.5
2010	AL	BB	EU01	24.82	26.88	5.476	105.497
2010	AL	BB	EU02	24.82	37.42	5.476	105.497
2010	AL	BB	NM01	24.82	45.71	4	80
2010	AL	BB	NM02	24.82	64.79	2.65	52.99
2010	AL	BD	EU01	24.29	37.42	1.008	87.924
2010	AL	BD	ES02	24.29	39.51	0.315	12.698
2010	AL	BD	NM01	24.29	48.69	2	20
2010	AL	BD	ES03	24.29	51.26	0.079	3.175
2010	AL	BD	NM02	24.29	53.68	2	20
2010	AL	BD	NM03	24.29	58.66	2	20
2010	AL	BD	NM04	24.29	63.64	2	20
2010	AL	BD	NM05	24.29	68.62	2	20
2010	AL	BD	NM06	24.29	73.6	2	20
2010	AL	BD	NM07	24.29	78.58	2	20
2010	AL	BD	NM08	24.29	83.56	2	20
2010	AL	BD	NM09	24.29	88.55	2	20
2010	AL	BD	NM10	24.29	92.56	1.61	16.1
2010	AL	BE	EU01	23.82	26.88	5.917	261.198
2010	AL	BE	NM01	23.82	31.77	1.5	15
2010	AL	BE	NM02	23.82	33.55	1.5	15
2010	AL	BE	ES01	23.82	34.61	0.083	2.88
2010	AL	BE	NM03	23.82	35.33	1.5	15
2010	AL	BE	NM04	23.82	37.11	1.5	15
2010	AL	BE	ES02	23.82	38.25	1.501	51.834
2010	AL	BE	NM05	23.82	38.88	1.5	15
2010	AL	BE	NM06	23.82	40.67	1.5	15
2010	AL	BE	NM07	23.82	42.44	1.5	15
2010	AL	BE	NM08	23.82	44.22	1.5	15
2010	AL	BE	NM09	23.82	45.99	1.5	15
2010	AL	BE	NM10	23.82	47.78	1.5	15
2010	AL	BE	NM11	23.82	49.55	1.5	15
2010	AL	BE	NM12	23.82	51.33	1.5	15
2010	AL	BE	NM13	23.82	53.11	1.5	15
2010	AL	BE	NM14	23.82	54.89	1.5	15
2010	AL	BE	NM15	23.82	56.66	1.5	15
2010	AL	BE	NM16	23.82	58.45	1.5	15
2010	AL	BE	NM17	23.82	60.22	1.5	15
2010	AL	BE	NM18	23.82	62	1.5	15
2010	AL	BE	NM19	23.82	63.78	1.5	15
2010	AL	BE	NM20	23.82	65.56	1.5	15
2010	AL	BE	NM21	23.82	67.33	1.5	15

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	AL	BE	NM22	23.82	69.11	1.5	15
2010	AL	BE	NM23	23.82	70.89	1.5	15
2010	AL	BE	NM24	23.82	72.67	1.5	15
2010	AL	BE	NM25	23.82	74.44	1.5	15
2010	AL	BE	ES03	23.82	75.2	0.083	2.88
2010	AL	BE	NM26	23.82	76.23	1.5	15
2010	AL	BE	NM27	23.82	78	1.5	15
2010	AL	BE	NM28	23.82	79.78	1.5	15
2010	AL	BE	NM29	23.82	81.56	1.5	15
2010	AL	BE	NM30	23.82	83.34	1.5	15
2010	AL	BE	NM31	23.82	85.11	1.5	15
2010	AL	BE	NM32	23.82	86.9	1.5	15
2010	AL	BE	NM33	23.82	88.67	1.5	15
2010	AL	BE	NM34	23.82	90.45	1.5	15
2010	AL	BE	NM35	23.82	92.22	1.5	15
2010	AL	BE	NM36	23.82	94.01	1.5	15
2010	AL	BE	NM37	23.82	95.78	1.5	15
2010	AL	BE	NM38	23.82	97.56	1.5	15
2010	AL	BE	NM39	23.82	99.34	1.5	15
2010	AL	BE	NM40	23.82	100.32	0.33	3.31
2010	AL	BG	EU01	23.95	26.88	0.188	2.95
2010	AL	BG	NM01	23.95	36.16	0.5	2.5
2010	AL	BG	NM02	23.95	38.65	0.5	2.5
2010	AL	BG	NM03	23.95	41.13	0.5	2.5
2010	AL	BG	NM04	23.95	43.63	0.5	2.5
2010	AL	BG	NM05	23.95	46.12	0.5	2.5
2010	AL	BG	NM06	23.95	48.6	0.5	2.5
2010	AL	BG	NM07	23.95	51.1	0.5	2.5
2010	AL	BG	NM08	23.95	53.59	0.5	2.5
2010	AL	BG	NM09	23.95	56.08	0.5	2.5
2010	AL	BG	NM10	23.95	58.57	0.5	2.5
2010	AL	BG	NM11	23.95	61.06	0.5	2.5
2010	AL	BG	NM12	23.95	63.55	0.5	2.5
2010	AL	BG	NM13	23.95	66.04	0.5	2.5
2010	AL	BG	NM14	23.95	68.54	0.5	2.5
2010	AL	BG	NM15	23.95	71.02	0.5	2.5
2010	AL	BG	NM16	23.95	73.51	0.5	2.5
2010	AL	BG	ES02	23.95	75.2	0.371	19.755
2010	AL	BG	NM17	23.95	76	0.5	2.5
2010	AL	BG	NM18	23.95	78.49	0.5	2.5
2010	AL	BG	NM19	23.95	80.98	0.5	2.5
2010	AL	BG	NM20	23.95	83.47	0.5	2.5
2010	AL	BG	NM21	23.95	85.96	0.5	2.5
2010	AL	BG	NM22	23.95	88.46	0.5	2.5
2010	AL	BG	NM23	23.95	90.94	0.5	2.5
2010	AL	BG	NM24	23.95	93.43	0.5	2.5
2010	AL	BG	NM25	23.95	95.92	0.5	2.5
2015	AL	BB	EU01	24.82	26.34	5.476	105.497
2015	AL	BB	EU02	24.82	36.69	5.476	105.497
2015	AL	BB	NM01	24.82	44.79	4	80
2015	AL	BB	NM02	24.82	63.5	2.65	52.99
2015	AL	BD	EU01	24.29	36.69	1.008	87.924
2015	AL	BD	ES02	24.29	38.73	0.315	12.698
2015	AL	BD	NM01	24.29	47.73	2	20
2015	AL	BD	ES03	24.29	50.24	0.079	3.175
2015	AL	BD	NM02	24.29	52.62	2	20
2015	AL	BD	NM03	24.29	57.5	2	20
2015	AL	BD	NM04	24.29	62.38	2	20
2015	AL	BD	NM05	24.29	67.25	2	20
2015	AL	BD	NM06	24.29	72.14	2	20
2015	AL	BD	NM07	24.29	77.02	2	20
2015	AL	BD	NM08	24.29	81.9	2	20
2015	AL	BD	NM09	24.29	86.78	2	20
2015	AL	BD	NM10	24.29	90.72	1.61	16.1
2015	AL	BE	EU01	23.82	26.34	5.917	261.198
2015	AL	BE	NM01	23.82	31.14	1.5	15
2015	AL	BE	NM02	23.82	32.89	1.5	15
2015	AL	BE	ES01	23.82	33.92	0.083	2.88
2015	AL	BE	NM03	23.82	34.62	1.5	15
2015	AL	BE	NM04	23.82	36.37	1.5	15
2015	AL	BE	ES02	23.82	37.49	1.501	51.834
2015	AL	BE	NM05	23.82	38.11	1.5	15
2015	AL	BE	NM06	23.82	39.85	1.5	15
2015	AL	BE	NM07	23.82	41.59	1.5	15
2015	AL	BE	NM08	23.82	43.34	1.5	15
2015	AL	BE	NM09	23.82	45.08	1.5	15
2015	AL	BE	NM10	23.82	46.83	1.5	15

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	AL	BE	NM11	23.82	48.57	1.5	15
2015	AL	BE	NM12	23.82	50.31	1.5	15
2015	AL	BE	NM13	23.82	52.05	1.5	15
2015	AL	BE	NM14	23.82	53.8	1.5	15
2015	AL	BE	NM15	23.82	55.54	1.5	15
2015	AL	BE	NM16	23.82	57.29	1.5	15
2015	AL	BE	NM17	23.82	59.03	1.5	15
2015	AL	BE	NM18	23.82	60.77	1.5	15
2015	AL	BE	NM19	23.82	62.5	1.5	15
2015	AL	BE	NM20	23.82	64.25	1.5	15
2015	AL	BE	NM21	23.82	65.99	1.5	15
2015	AL	BE	NM22	23.82	67.74	1.5	15
2015	AL	BE	NM23	23.82	69.48	1.5	15
2015	AL	BE	NM24	23.82	71.22	1.5	15
2015	AL	BE	NM25	23.82	72.96	1.5	15
2015	AL	BE	ES03	23.82	73.71	0.083	2.88
2015	AL	BE	NM26	23.82	74.71	1.5	15
2015	AL	BE	NM27	23.82	76.45	1.5	15
2015	AL	BE	NM28	23.82	78.2	1.5	15
2015	AL	BE	NM29	23.82	79.94	1.5	15
2015	AL	BE	NM30	23.82	81.68	1.5	15
2015	AL	BE	NM31	23.82	83.42	1.5	15
2015	AL	BE	NM32	23.82	85.17	1.5	15
2015	AL	BE	NM33	23.82	86.91	1.5	15
2015	AL	BE	NM34	23.82	88.66	1.5	15
2015	AL	BE	NM35	23.82	90.4	1.5	15
2015	AL	BE	NM36	23.82	92.13	1.5	15
2015	AL	BE	NM37	23.82	93.87	1.5	15
2015	AL	BE	NM38	23.82	95.62	1.5	15
2015	AL	BE	NM39	23.82	97.36	1.5	15
2015	AL	BE	NM40	23.82	98.32	0.33	3.31
2015	AL	BG	EU01	23.95	26.34	0.188	2.95
2015	AL	BG	NM01	23.95	35.44	0.5	2.5
2015	AL	BG	NM02	23.95	37.88	0.5	2.5
2015	AL	BG	NM03	23.95	40.32	0.5	2.5
2015	AL	BG	NM04	23.95	42.76	0.5	2.5
2015	AL	BG	NM05	23.95	45.2	0.5	2.5
2015	AL	BG	NM06	23.95	47.64	0.5	2.5
2015	AL	BG	NM07	23.95	50.09	0.5	2.5
2015	AL	BG	NM08	23.95	52.53	0.5	2.5
2015	AL	BG	NM09	23.95	54.97	0.5	2.5
2015	AL	BG	NM10	23.95	57.41	0.5	2.5
2015	AL	BG	NM11	23.95	59.85	0.5	2.5
2015	AL	BG	NM12	23.95	62.29	0.5	2.5
2015	AL	BG	NM13	23.95	64.73	0.5	2.5
2015	AL	BG	NM14	23.95	67.18	0.5	2.5
2015	AL	BG	NM15	23.95	69.61	0.5	2.5
2015	AL	BG	NM16	23.95	72.05	0.5	2.5
2015	AL	BG	ES02	23.95	73.71	0.371	19.755
2015	AL	BG	NM17	23.95	74.49	0.5	2.5
2015	AL	BG	NM18	23.95	76.93	0.5	2.5
2015	AL	BG	NM19	23.95	79.37	0.5	2.5
2015	AL	BG	NM20	23.95	81.81	0.5	2.5
2015	AL	BG	NM21	23.95	84.25	0.5	2.5
2015	AL	BG	NM22	23.95	86.69	0.5	2.5
2015	AL	BG	NM23	23.95	89.14	0.5	2.5
2015	AL	BG	NM24	23.95	91.58	0.5	2.5
2015	AL	BG	NM25	23.95	94.02	0.5	2.5
2020	AL	BB	EU01	24.82	25.82	5.476	105.497
2020	AL	BB	EU02	24.82	35.95	5.476	105.497
2020	AL	BB	NM01	24.82	43.9	4	80
2020	AL	BB	NM02	24.82	62.24	2.65	52.99
2020	AL	BD	EU01	24.29	35.95	1.008	87.924
2020	AL	BD	ES02	24.29	37.96	0.315	12.698
2020	AL	BD	NM01	24.29	46.79	2	20
2020	AL	BD	ES03	24.29	49.24	0.079	3.175
2020	AL	BD	NM02	24.29	51.57	2	20
2020	AL	BD	NM03	24.29	56.35	2	20
2020	AL	BD	NM04	24.29	61.14	2	20
2020	AL	BD	NM05	24.29	65.93	2	20
2020	AL	BD	NM06	24.29	70.71	2	20
2020	AL	BD	NM07	24.29	75.49	2	20
2020	AL	BD	NM08	24.29	80.27	2	20
2020	AL	BD	NM09	24.29	85.07	2	20
2020	AL	BD	NM10	24.29	88.92	1.61	16.1
2020	AL	BE	EU01	23.82	25.82	5.917	261.198
2020	AL	BE	NM01	23.82	30.52	1.5	15

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	AL	BE	NM02	23.82	32.24	1.5	15
2020	AL	BE	ES01	23.82	33.25	0.083	2.88
2020	AL	BE	NM03	23.82	33.93	1.5	15
2020	AL	BE	NM04	23.82	35.65	1.5	15
2020	AL	BE	ES02	23.82	36.75	1.501	51.834
2020	AL	BE	NM05	23.82	37.36	1.5	15
2020	AL	BE	NM06	23.82	39.06	1.5	15
2020	AL	BE	NM07	23.82	40.77	1.5	15
2020	AL	BE	NM08	23.82	42.48	1.5	15
2020	AL	BE	NM09	23.82	44.19	1.5	15
2020	AL	BE	NM10	23.82	45.89	1.5	15
2020	AL	BE	NM11	23.82	47.6	1.5	15
2020	AL	BE	NM12	23.82	49.32	1.5	15
2020	AL	BE	NM13	23.82	51.02	1.5	15
2020	AL	BE	NM14	23.82	52.73	1.5	15
2020	AL	BE	NM15	23.82	54.43	1.5	15
2020	AL	BE	NM16	23.82	56.15	1.5	15
2020	AL	BE	NM17	23.82	57.86	1.5	15
2020	AL	BE	NM18	23.82	59.56	1.5	15
2020	AL	BE	NM19	23.82	61.27	1.5	15
2020	AL	BE	NM20	23.82	62.98	1.5	15
2020	AL	BE	NM21	23.82	64.69	1.5	15
2020	AL	BE	NM22	23.82	66.39	1.5	15
2020	AL	BE	NM23	23.82	68.1	1.5	15
2020	AL	BE	NM24	23.82	69.82	1.5	15
2020	AL	BE	NM25	23.82	71.52	1.5	15
2020	AL	BE	ES03	23.82	72.25	0.083	2.88
2020	AL	BE	NM26	23.82	73.23	1.5	15
2020	AL	BE	NM27	23.82	74.93	1.5	15
2020	AL	BE	NM28	23.82	76.65	1.5	15
2020	AL	BE	NM29	23.82	78.35	1.5	15
2020	AL	BE	NM30	23.82	80.06	1.5	15
2020	AL	BE	NM31	23.82	81.77	1.5	15
2020	AL	BE	NM32	23.82	83.47	1.5	15
2020	AL	BE	NM33	23.82	85.18	1.5	15
2020	AL	BE	NM34	23.82	86.9	1.5	15
2020	AL	BE	NM35	23.82	88.6	1.5	15
2020	AL	BE	NM36	23.82	90.31	1.5	15
2020	AL	BE	NM37	23.82	92.01	1.5	15
2020	AL	BE	NM38	23.82	93.73	1.5	15
2020	AL	BE	NM39	23.82	95.43	1.5	15
2020	AL	BE	NM40	23.82	96.37	0.33	3.31
2020	AL	BG	EU01	23.95	25.82	0.188	2.95
2020	AL	BG	NM01	23.95	34.74	0.5	2.5
2020	AL	BG	NM02	23.95	37.13	0.5	2.5
2020	AL	BG	NM03	23.95	39.52	0.5	2.5
2020	AL	BG	NM04	23.95	41.91	0.5	2.5
2020	AL	BG	NM05	23.95	44.31	0.5	2.5
2020	AL	BG	NM06	23.95	46.7	0.5	2.5
2020	AL	BG	NM07	23.95	49.09	0.5	2.5
2020	AL	BG	NM08	23.95	51.48	0.5	2.5
2020	AL	BG	NM09	23.95	53.88	0.5	2.5
2020	AL	BG	NM10	23.95	56.27	0.5	2.5
2020	AL	BG	NM11	23.95	58.66	0.5	2.5
2020	AL	BG	NM12	23.95	61.06	0.5	2.5
2020	AL	BG	NM13	23.95	63.44	0.5	2.5
2020	AL	BG	NM14	23.95	65.84	0.5	2.5
2020	AL	BG	NM15	23.95	68.23	0.5	2.5
2020	AL	BG	NM16	23.95	70.62	0.5	2.5
2020	AL	BG	ES02	23.95	72.25	0.371	19.755
2020	AL	BG	NM17	23.95	73.02	0.5	2.5
2020	AL	BG	NM18	23.95	75.4	0.5	2.5
2020	AL	BG	NM19	23.95	77.8	0.5	2.5
2020	AL	BG	NM20	23.95	80.2	0.5	2.5
2020	AL	BG	NM21	23.95	82.58	0.5	2.5
2020	AL	BG	NM22	23.95	84.98	0.5	2.5
2020	AL	BG	NM23	23.95	87.36	0.5	2.5
2020	AL	BG	NM24	23.95	89.76	0.5	2.5
2020	AL	BG	NM25	23.95	92.16	0.5	2.5
2025	AL	BB	EU01	24.82	25.3	5.476	105.497
2025	AL	BB	EU02	24.82	35.24	5.476	105.497
2025	AL	BB	NM01	24.82	43.03	4	80
2025	AL	BB	NM02	24.82	61	2.65	52.99
2025	AL	BD	EU01	24.29	35.24	1.008	87.924
2025	AL	BD	ES02	24.29	37.2	0.315	12.698
2025	AL	BD	NM01	24.29	45.86	2	20
2025	AL	BD	ES03	24.29	48.27	0.079	3.175

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	AL	BD	NM02	24.29	50.54	2	20
2025	AL	BD	NM03	24.29	55.24	2	20
2025	AL	BD	NM04	24.29	59.93	2	20
2025	AL	BD	NM05	24.29	64.61	2	20
2025	AL	BD	NM06	24.29	69.3	2	20
2025	AL	BD	NM07	24.29	74	2	20
2025	AL	BD	NM08	24.29	78.68	2	20
2025	AL	BD	NM09	24.29	83.37	2	20
2025	AL	BD	NM10	24.29	87.15	1.61	16.1
2025	AL	BE	EU01	23.82	25.3	5.917	261.198
2025	AL	BE	NM01	23.82	29.92	1.5	15
2025	AL	BE	NM02	23.82	31.59	1.5	15
2025	AL	BE	ES01	23.82	32.58	0.083	2.88
2025	AL	BE	NM03	23.82	33.26	1.5	15
2025	AL	BE	NM04	23.82	34.95	1.5	15
2025	AL	BE	ES02	23.82	36.02	1.501	51.834
2025	AL	BE	NM05	23.82	36.61	1.5	15
2025	AL	BE	NM06	23.82	38.29	1.5	15
2025	AL	BE	NM07	23.82	39.96	1.5	15
2025	AL	BE	NM08	23.82	41.64	1.5	15
2025	AL	BE	NM09	23.82	43.31	1.5	15
2025	AL	BE	NM10	23.82	44.99	1.5	15
2025	AL	BE	NM11	23.82	46.66	1.5	15
2025	AL	BE	NM12	23.82	48.34	1.5	15
2025	AL	BE	NM13	23.82	50.01	1.5	15
2025	AL	BE	NM14	23.82	51.68	1.5	15
2025	AL	BE	NM15	23.82	53.35	1.5	15
2025	AL	BE	NM16	23.82	55.04	1.5	15
2025	AL	BE	NM17	23.82	56.71	1.5	15
2025	AL	BE	NM18	23.82	58.38	1.5	15
2025	AL	BE	NM19	23.82	60.05	1.5	15
2025	AL	BE	NM20	23.82	61.74	1.5	15
2025	AL	BE	NM21	23.82	63.4	1.5	15
2025	AL	BE	NM22	23.82	65.08	1.5	15
2025	AL	BE	NM23	23.82	66.75	1.5	15
2025	AL	BE	NM24	23.82	68.42	1.5	15
2025	AL	BE	NM25	23.82	70.1	1.5	15
2025	AL	BE	ES03	23.82	70.82	0.083	2.88
2025	AL	BE	NM26	23.82	71.78	1.5	15
2025	AL	BE	NM27	23.82	73.45	1.5	15
2025	AL	BE	NM28	23.82	75.12	1.5	15
2025	AL	BE	NM29	23.82	76.8	1.5	15
2025	AL	BE	NM30	23.82	78.47	1.5	15
2025	AL	BE	NM31	23.82	80.14	1.5	15
2025	AL	BE	NM32	23.82	81.82	1.5	15
2025	AL	BE	NM33	23.82	83.5	1.5	15
2025	AL	BE	NM34	23.82	85.17	1.5	15
2025	AL	BE	NM35	23.82	86.84	1.5	15
2025	AL	BE	NM36	23.82	88.52	1.5	15
2025	AL	BE	NM37	23.82	90.19	1.5	15
2025	AL	BE	NM38	23.82	91.87	1.5	15
2025	AL	BE	NM39	23.82	93.54	1.5	15
2025	AL	BE	NM40	23.82	94.46	0.33	3.31
2025	AL	BG	EU01	23.95	25.3	0.188	2.95
2025	AL	BG	NM01	23.95	34.04	0.5	2.5
2025	AL	BG	NM02	23.95	36.4	0.5	2.5
2025	AL	BG	NM03	23.95	38.74	0.5	2.5
2025	AL	BG	NM04	23.95	41.08	0.5	2.5
2025	AL	BG	NM05	23.95	43.43	0.5	2.5
2025	AL	BG	NM06	23.95	45.77	0.5	2.5
2025	AL	BG	NM07	23.95	48.11	0.5	2.5
2025	AL	BG	NM08	23.95	50.47	0.5	2.5
2025	AL	BG	NM09	23.95	52.81	0.5	2.5
2025	AL	BG	NM10	23.95	55.15	0.5	2.5
2025	AL	BG	NM11	23.95	57.5	0.5	2.5
2025	AL	BG	NM12	23.95	59.84	0.5	2.5
2025	AL	BG	NM13	23.95	62.18	0.5	2.5
2025	AL	BG	NM14	23.95	64.53	0.5	2.5
2025	AL	BG	NM15	23.95	66.87	0.5	2.5
2025	AL	BG	NM16	23.95	69.23	0.5	2.5
2025	AL	BG	ES02	23.95	70.82	0.371	19.755
2025	AL	BG	NM17	23.95	71.57	0.5	2.5
2025	AL	BG	NM18	23.95	73.91	0.5	2.5
2025	AL	BG	NM19	23.95	76.26	0.5	2.5
2025	AL	BG	NM20	23.95	78.6	0.5	2.5
2025	AL	BG	NM21	23.95	80.94	0.5	2.5
2025	AL	BG	NM22	23.95	83.29	0.5	2.5

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	AL	BG	NM23	23.95	85.64	0.5	2.5
2025	AL	BG	NM24	23.95	87.98	0.5	2.5
2025	AL	BG	NM25	23.95	90.33	0.5	2.5
2035	AL	BB	EU01	24.82	24.8	5.476	105.497
2035	AL	BB	EU02	24.82	34.55	5.476	105.497
2035	AL	BB	NM01	24.82	42.18	4	80
2035	AL	BB	NM02	24.82	59.8	2.65	52.99
2035	AL	BD	EU01	24.29	34.55	1.008	87.924
2035	AL	BD	ES02	24.29	36.46	0.315	12.698
2035	AL	BD	NM01	24.29	44.95	2	20
2035	AL	BD	ES03	24.29	47.31	0.079	3.175
2035	AL	BD	NM02	24.29	49.54	2	20
2035	AL	BD	NM03	24.29	54.14	2	20
2035	AL	BD	NM04	24.29	58.74	2	20
2035	AL	BD	NM05	24.29	63.33	2	20
2035	AL	BD	NM06	24.29	67.93	2	20
2035	AL	BD	NM07	24.29	72.53	2	20
2035	AL	BD	NM08	24.29	77.12	2	20
2035	AL	BD	NM09	24.29	81.72	2	20
2035	AL	BD	NM10	24.29	85.42	1.61	16.1
2035	AL	BE	EU01	23.82	24.8	5.917	261.198
2035	AL	BE	NM01	23.82	29.32	1.5	15
2035	AL	BE	NM02	23.82	30.97	1.5	15
2035	AL	BE	ES01	23.82	31.94	0.083	2.88
2035	AL	BE	NM03	23.82	32.61	1.5	15
2035	AL	BE	NM04	23.82	34.25	1.5	15
2035	AL	BE	ES02	23.82	35.3	1.501	51.834
2035	AL	BE	NM05	23.82	35.88	1.5	15
2035	AL	BE	NM06	23.82	37.53	1.5	15
2035	AL	BE	NM07	23.82	39.17	1.5	15
2035	AL	BE	NM08	23.82	40.81	1.5	15
2035	AL	BE	NM09	23.82	42.45	1.5	15
2035	AL	BE	NM10	23.82	44.1	1.5	15
2035	AL	BE	NM11	23.82	45.74	1.5	15
2035	AL	BE	NM12	23.82	47.38	1.5	15
2035	AL	BE	NM13	23.82	49.02	1.5	15
2035	AL	BE	NM14	23.82	50.65	1.5	15
2035	AL	BE	NM15	23.82	52.29	1.5	15
2035	AL	BE	NM16	23.82	53.94	1.5	15
2035	AL	BE	NM17	23.82	55.58	1.5	15
2035	AL	BE	NM18	23.82	57.22	1.5	15
2035	AL	BE	NM19	23.82	58.86	1.5	15
2035	AL	BE	NM20	23.82	60.51	1.5	15
2035	AL	BE	NM21	23.82	62.15	1.5	15
2035	AL	BE	NM22	23.82	63.79	1.5	15
2035	AL	BE	NM23	23.82	65.43	1.5	15
2035	AL	BE	NM24	23.82	67.07	1.5	15
2035	AL	BE	NM25	23.82	68.7	1.5	15
2035	AL	BE	ES03	23.82	69.42	0.083	2.88
2035	AL	BE	NM26	23.82	70.35	1.5	15
2035	AL	BE	NM27	23.82	71.99	1.5	15
2035	AL	BE	NM28	23.82	73.63	1.5	15
2035	AL	BE	NM29	23.82	75.27	1.5	15
2035	AL	BE	NM30	23.82	76.92	1.5	15
2035	AL	BE	NM31	23.82	78.56	1.5	15
2035	AL	BE	NM32	23.82	80.2	1.5	15
2035	AL	BE	NM33	23.82	81.83	1.5	15
2035	AL	BE	NM34	23.82	83.48	1.5	15
2035	AL	BE	NM35	23.82	85.12	1.5	15
2035	AL	BE	NM36	23.82	86.76	1.5	15
2035	AL	BE	NM37	23.82	88.4	1.5	15
2035	AL	BE	NM38	23.82	90.04	1.5	15
2035	AL	BE	NM39	23.82	91.68	1.5	15
2035	AL	BE	NM40	23.82	92.59	0.33	3.31
2035	AL	BG	EU01	23.95	24.8	0.188	2.95
2035	AL	BG	NM01	23.95	33.38	0.5	2.5
2035	AL	BG	NM02	23.95	35.67	0.5	2.5
2035	AL	BG	NM03	23.95	37.97	0.5	2.5
2035	AL	BG	NM04	23.95	40.27	0.5	2.5
2035	AL	BG	NM05	23.95	42.56	0.5	2.5
2035	AL	BG	NM06	23.95	44.87	0.5	2.5
2035	AL	BG	NM07	23.95	47.17	0.5	2.5
2035	AL	BG	NM08	23.95	49.46	0.5	2.5
2035	AL	BG	NM09	23.95	51.76	0.5	2.5
2035	AL	BG	NM10	23.95	54.05	0.5	2.5
2035	AL	BG	NM11	23.95	56.35	0.5	2.5
2035	AL	BG	NM12	23.95	58.66	0.5	2.5

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	AL	BG	NM13	23.95	60.95	0.5	2.5
2035	AL	BG	NM14	23.95	63.25	0.5	2.5
2035	AL	BG	NM15	23.95	65.55	0.5	2.5
2035	AL	BG	NM16	23.95	67.84	0.5	2.5
2035	AL	BG	ES02	23.95	69.42	0.371	19.755
2035	AL	BG	NM17	23.95	70.14	0.5	2.5
2035	AL	BG	NM18	23.95	72.45	0.5	2.5
2035	AL	BG	NM19	23.95	74.74	0.5	2.5
2035	AL	BG	NM20	23.95	77.04	0.5	2.5
2035	AL	BG	NM21	23.95	79.34	0.5	2.5
2035	AL	BG	NM22	23.95	81.63	0.5	2.5
2035	AL	BG	NM23	23.95	83.94	0.5	2.5
2035	AL	BG	NM24	23.95	86.24	0.5	2.5
2035	AL	BG	NM25	23.95	88.53	0.5	2.5
2007	AZ	BB	NM01	24.64	12.1	5	100
2007	AZ	BB	ES01	24.64	12.81	10.205	343.98
2007	AZ	BB	ES02	24.64	12.82	5.495	185.22
2007	AZ	BB	NM02	24.64	13.11	5	100
2008	AZ	BB	NM01	24.64	12.05	5	100
2008	AZ	BB	ES01	24.64	12.75	10.205	343.98
2008	AZ	BB	ES02	24.64	12.76	5.495	185.22
2008	AZ	BB	NM02	24.64	13.05	5	100
2009	AZ	BB	NM01	24.64	12.01	5	100
2009	AZ	BB	ES01	24.64	12.71	10.205	343.98
2009	AZ	BB	ES02	24.64	12.72	5.495	185.22
2009	AZ	BB	NM02	24.64	13	5	100
2010	AZ	BB	NM01	24.64	11.95	5	100
2010	AZ	BB	ES01	24.64	12.65	10.205	343.98
2010	AZ	BB	ES02	24.64	12.66	5.495	185.22
2010	AZ	BB	NM02	24.64	12.95	5	100
2015	AZ	BB	NM01	24.64	11.72	5	100
2015	AZ	BB	ES01	24.64	12.41	10.205	343.98
2015	AZ	BB	ES02	24.64	12.42	5.495	185.22
2015	AZ	BB	NM02	24.64	12.7	5	100
2020	AZ	BB	NM01	24.64	11.48	5	100
2020	AZ	BB	ES01	24.64	12.16	10.205	343.98
2020	AZ	BB	ES02	24.64	12.16	5.495	185.22
2020	AZ	BB	NM02	24.64	12.44	5	100
2025	AZ	BB	NM01	24.64	11.26	5	100
2025	AZ	BB	ES01	24.64	11.92	10.205	343.98
2025	AZ	BB	ES02	24.64	11.93	5.495	185.22
2025	AZ	BB	NM02	24.64	12.2	5	100
2035	AZ	BB	NM01	24.64	11.04	5	100
2035	AZ	BB	ES01	24.64	11.68	10.205	343.98
2035	AZ	BB	ES02	24.64	11.69	5.495	185.22
2035	AZ	BB	NM02	24.64	11.95	5	100
2007	CG	BA	ES01	21.49	10.98	4.54	31.047
2007	CG	BA	EU02	21.49	13.6	0.59	9.666
2007	CG	BA	ES03	21.49	13.91	0.68	4.641
2007	CG	BA	NM01	21.49	14.31	5	100
2007	CG	BA	NM02	21.49	15.13	5	100
2007	CG	BA	NM03	21.49	15.93	5	100
2007	CG	BA	NM04	21.49	16.73	5	100
2007	CG	BB	ES01	22.01	10.98	1.24	8.52
2007	CG	BB	EU02	22.01	12.06	6.14	100.083
2007	CG	BB	ES03	22.01	13.31	1.53	10.493
2007	CG	BB	EU04	22.01	13.6	1.39	22.695
2007	CG	BB	ES05	22.01	13.91	1.2	8.225
2007	CG	BB	NM01	22.01	14.92	5	100
2007	CG	BB	NM02	22.01	15.33	5	100
2008	CG	BA	ES01	21.49	10.94	4.54	31.047
2008	CG	BA	EU02	21.49	13.54	0.59	9.666
2008	CG	BA	ES03	21.49	13.86	0.68	4.641
2008	CG	BA	NM01	21.49	14.26	5	100
2008	CG	BA	NM02	21.49	15.06	5	100
2008	CG	BA	NM03	21.49	15.86	5	100
2008	CG	BA	NM04	21.49	16.67	5	100
2008	CG	BB	ES01	22.01	10.94	1.24	8.52
2008	CG	BB	EU02	22.01	12.01	6.14	100.083
2008	CG	BB	ES03	22.01	13.25	1.53	10.493
2008	CG	BB	EU04	22.01	13.54	1.39	22.695
2008	CG	BB	ES05	22.01	13.86	1.2	8.225
2008	CG	BB	NM01	22.01	14.86	5	100
2008	CG	BB	NM02	22.01	15.26	5	100
2009	CG	BA	ES01	21.49	10.89	4.54	31.047
2009	CG	BA	EU02	21.49	13.49	0.59	9.666
2009	CG	BA	ES03	21.49	13.8	0	4.641

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	CG	BA	NM01	21.49	14.2	5	100
2009	CG	BA	NM02	21.49	15	5	100
2009	CG	BA	NM03	21.49	15.8	5	100
2009	CG	BA	NM04	21.49	16.6	5	100
2009	CG	BB	ES01	22.01	10.89	1.24	8.52
2009	CG	BB	EU02	22.01	11.96	6.14	100.083
2009	CG	BB	ES03	22.01	13.2	0	10.493
2009	CG	BB	EU04	22.01	13.49	1.39	22.695
2009	CG	BB	ES05	22.01	13.8	0	8.225
2009	CG	BB	NM01	22.01	14.8	5	100
2009	CG	BB	NM02	22.01	15.21	5	100
2010	CG	BA	ES01	21.49	10.85	4.54	31.047
2010	CG	BA	EU02	21.49	13.43	0.59	9.666
2010	CG	BA	ES03	21.49	13.74	0	4.641
2010	CG	BA	NM01	21.49	14.15	5	100
2010	CG	BA	NM02	21.49	14.94	5	100
2010	CG	BA	NM03	21.49	15.74	5	100
2010	CG	BA	NM04	21.49	16.53	5	100
2010	CG	BB	ES01	22.01	10.85	1.24	8.52
2010	CG	BB	EU02	22.01	11.92	6.14	100.083
2010	CG	BB	ES03	22.01	13.15	0	10.493
2010	CG	BB	EU04	22.01	13.43	1.39	22.695
2010	CG	BB	ES05	22.01	13.74	0	8.225
2010	CG	BB	NM01	22.01	14.74	5	100
2010	CG	BB	NM02	22.01	15.14	5	100
2015	CG	BA	ES01	21.49	10.63	0	31.047
2015	CG	BA	EU02	21.49	13.18	0	9.666
2015	CG	BA	ES03	21.49	13.48	0	4.641
2015	CG	BA	NM01	21.49	13.87	5	100
2015	CG	BA	NM02	21.49	14.65	5	100
2015	CG	BA	NM03	21.49	15.43	5	100
2015	CG	BA	NM04	21.49	16.21	5	100
2015	CG	BB	ES01	22.01	10.63	0	8.52
2015	CG	BB	EU02	22.01	11.68	6.14	100.083
2015	CG	BB	ES03	22.01	12.89	0	10.493
2015	CG	BB	EU04	22.01	13.18	0	22.695
2015	CG	BB	ES05	22.01	13.48	0	8.225
2015	CG	BB	NM01	22.01	14.45	5	100
2015	CG	BB	NM02	22.01	14.84	5	100
2020	CG	BA	ES01	21.49	10.42	0	31.047
2020	CG	BA	EU02	21.49	12.91	0	9.666
2020	CG	BA	ES03	21.49	13.21	0	4.641
2020	CG	BA	NM01	21.49	13.59	5	100
2020	CG	BA	NM02	21.49	14.36	5	100
2020	CG	BA	NM03	21.49	15.12	5	100
2020	CG	BA	NM04	21.49	15.89	5	100
2020	CG	BB	ES01	22.01	10.42	0	8.52
2020	CG	BB	EU02	22.01	11.45	6.14	100.083
2020	CG	BB	ES03	22.01	12.63	0	10.493
2020	CG	BB	EU04	22.01	12.91	0	22.695
2020	CG	BB	ES05	22.01	13.21	0	8.225
2020	CG	BB	NM01	22.01	14.16	5	100
2020	CG	BB	NM02	22.01	14.55	5	100
2025	CG	BA	ES01	21.49	10.21	0	31.047
2025	CG	BA	EU02	21.49	12.65	0	9.666
2025	CG	BA	ES03	21.49	12.95	0	4.641
2025	CG	BA	NM01	21.49	13.32	5	100
2025	CG	BA	NM02	21.49	14.07	5	100
2025	CG	BA	NM03	21.49	14.82	5	100
2025	CG	BA	NM04	21.49	15.57	5	100
2025	CG	BB	ES01	22.01	10.21	0	8.52
2025	CG	BB	EU02	22.01	11.23	0	100.083
2025	CG	BB	ES03	22.01	12.38	0	10.493
2025	CG	BB	EU04	22.01	12.65	0	22.695
2025	CG	BB	ES05	22.01	12.95	0	8.225
2025	CG	BB	NM01	22.01	13.88	5	100
2025	CG	BB	NM02	22.01	14.26	5	100
2035	CG	BA	ES01	21.49	10.01	0	31.047
2035	CG	BA	EU02	21.49	12.41	0	9.666
2035	CG	BA	ES03	21.49	12.69	0	4.641
2035	CG	BA	NM01	21.49	13.05	5	100
2035	CG	BA	NM02	21.49	13.79	5	100
2035	CG	BA	NM03	21.49	14.53	5	100
2035	CG	BA	NM04	21.49	15.26	5	100
2035	CG	BB	ES01	22.01	10.01	0	8.52
2035	CG	BB	EU02	22.01	11	0	100.083
2035	CG	BB	ES03	22.01	12.14	0	10.493

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	CG	BB	EU04	22.01	12.41	0	22.695
2035	CG	BB	ES05	22.01	12.69	0	8.225
2035	CG	BB	NM01	22.01	13.61	5	100
2035	CG	BB	NM02	22.01	13.98	5	100
2007	CU	BA	EU01	23.8	11.55	2.71	39.363
2007	CU	BA	EU02	23.8	12.45	1.58	23.062
2007	CU	BA	EU03	23.8	12.94	0.2	2.975
2007	CU	BB	EU01	23.22	11.55	5.513	74.61
2007	CU	BB	EU02	23.22	12.45	6.248	84.558
2007	CU	BB	EU03	23.22	12.94	6.064	82.071
2007	CU	BB	EU04	23.22	16.24	0.551	7.461
2007	CU	BB	NM01	23.22	17.33	5	100
2007	CU	BB	NM02	23.22	21.63	5	100
2007	CU	BD	EU01	23.21	12.45	0.01	0.13
2007	CU	BD	EU02	23.21	12.94	1.03	14.971
2007	CU	BE	EU01	25.06	12.45	0.65	9.521
2007	CU	BE	EU02	25.06	12.94	0.03	0.424
2008	CU	BA	EU01	23.8	11.5	2.71	39.363
2008	CU	BA	EU02	23.8	12.41	1.58	23.062
2008	CU	BA	EU03	23.8	12.9	0.2	2.975
2008	CU	BB	EU01	23.22	11.5	5.513	74.61
2008	CU	BB	EU02	23.22	12.41	6.248	84.558
2008	CU	BB	EU03	23.22	12.9	6.064	82.071
2008	CU	BB	EU04	23.22	16.18	0.551	7.461
2008	CU	BB	NM01	23.22	17.27	5	100
2008	CU	BB	NM02	23.22	21.54	5	100
2008	CU	BD	EU01	23.21	12.41	0.01	0.13
2008	CU	BD	EU02	23.21	12.9	1.03	14.971
2008	CU	BE	EU01	25.06	12.41	0.65	9.521
2008	CU	BE	EU02	25.06	12.9	0.03	0.424
2009	CU	BA	EU01	23.8	11.46	2.71	39.363
2009	CU	BA	EU02	23.8	12.35	1.58	23.062
2009	CU	BA	EU03	23.8	12.84	0.2	2.975
2009	CU	BB	EU01	23.22	11.46	5.513	74.61
2009	CU	BB	EU02	23.22	12.35	6.248	84.558
2009	CU	BB	EU03	23.22	12.84	6.064	82.071
2009	CU	BB	EU04	23.22	16.11	0.551	7.461
2009	CU	BB	NM01	23.22	17.2	5	100
2009	CU	BB	NM02	23.22	21.45	5	100
2009	CU	BD	EU01	23.21	12.35	0.01	0.13
2009	CU	BD	EU02	23.21	12.84	1.03	14.971
2009	CU	BE	EU01	25.06	12.35	0.65	9.521
2009	CU	BE	EU02	25.06	12.84	0.03	0.424
2010	CU	BA	EU01	23.8	11.42	2.71	39.363
2010	CU	BA	EU02	23.8	12.31	1.58	23.062
2010	CU	BA	EU03	23.8	12.79	0.2	2.975
2010	CU	BB	EU01	23.22	11.42	5.513	74.61
2010	CU	BB	EU02	23.22	12.31	6.248	84.558
2010	CU	BB	EU03	23.22	12.79	6.064	82.071
2010	CU	BB	EU04	23.22	16.04	0.551	7.461
2010	CU	BB	NM01	23.22	17.13	5	100
2010	CU	BB	NM02	23.22	21.37	5	100
2010	CU	BD	EU01	23.21	12.31	0.01	0.13
2010	CU	BD	EU02	23.21	12.79	1.03	14.971
2010	CU	BE	EU01	25.06	12.31	0.65	9.521
2010	CU	BE	EU02	25.06	12.79	0.03	0.424
2015	CU	BA	EU01	23.8	11.19	2.71	39.363
2015	CU	BA	EU02	23.8	12.06	0	23.062
2015	CU	BA	EU03	23.8	12.54	0.2	2.975
2015	CU	BB	EU01	23.22	11.19	5.513	74.61
2015	CU	BB	EU02	23.22	12.06	6.248	84.558
2015	CU	BB	EU03	23.22	12.54	6.064	82.071
2015	CU	BB	EU04	23.22	15.73	0.551	7.461
2015	CU	BB	NM01	23.22	16.79	5	100
2015	CU	BB	NM02	23.22	20.95	5	100
2015	CU	BD	EU01	23.21	12.06	0	0.13
2015	CU	BD	EU02	23.21	12.54	1.03	14.971
2015	CU	BE	EU01	25.06	12.06	0	9.521
2015	CU	BE	EU02	25.06	12.54	0.03	0.424
2020	CU	BA	EU01	23.8	10.97	2.71	39.363
2020	CU	BA	EU02	23.8	11.83	0	23.062
2020	CU	BA	EU03	23.8	12.28	0	2.975
2020	CU	BB	EU01	23.22	10.97	5.513	74.61
2020	CU	BB	EU02	23.22	11.83	6.248	84.558
2020	CU	BB	EU03	23.22	12.28	6.064	82.071
2020	CU	BB	EU04	23.22	15.42	0.551	7.461
2020	CU	BB	NM01	23.22	16.45	5	100

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	CU	BB	NM02	23.22	20.52	5	100
2020	CU	BD	EU01	23.21	11.83	0	0.13
2020	CU	BD	EU02	23.21	12.28	0	14.971
2020	CU	BE	EU01	25.06	11.83	0	9.521
2020	CU	BE	EU02	25.06	12.28	0	0.424
2025	CU	BA	EU01	23.8	10.75	0	39.363
2025	CU	BA	EU02	23.8	11.58	0	23.062
2025	CU	BA	EU03	23.8	12.04	0	2.975
2025	CU	BB	EU01	23.22	10.75	5.513	74.61
2025	CU	BB	EU02	23.22	11.58	6.248	84.558
2025	CU	BB	EU03	23.22	12.04	6.064	82.071
2025	CU	BB	EU04	23.22	15.1	0.551	7.461
2025	CU	BB	NM01	23.22	16.13	5	100
2025	CU	BB	NM02	23.22	20.12	5	100
2025	CU	BD	EU01	23.21	11.58	0	0.13
2025	CU	BD	EU02	23.21	12.04	0	14.971
2025	CU	BE	EU01	25.06	11.58	0	9.521
2025	CU	BE	EU02	25.06	12.04	0	0.424
2035	CU	BA	EU01	23.8	10.53	0	39.363
2035	CU	BA	EU02	23.8	11.36	0	23.062
2035	CU	BA	EU03	23.8	11.81	0	2.975
2035	CU	BB	EU01	23.22	10.53	5.513	74.61
2035	CU	BB	EU02	23.22	11.36	6.248	84.558
2035	CU	BB	EU03	23.22	11.81	6.064	82.071
2035	CU	BB	EU04	23.22	14.82	0.551	7.461
2035	CU	BB	NM01	23.22	15.81	5	100
2035	CU	BB	NM02	23.22	19.72	5	100
2035	CU	BD	EU01	23.21	11.36	0	0.13
2035	CU	BD	EU02	23.21	11.81	0	14.971
2035	CU	BE	EU01	25.06	11.36	0	9.521
2035	CU	BE	EU02	25.06	11.81	0	0.424
2007	IL	BB	NM01	24.57	25.81	3	150
2007	IL	BB	NM02	24.57	37.39	3	150
2007	IL	BD	EU01	23.86	22.13	1.357	3.548
2007	IL	BD	EU02	23.86	23.05	0.136	0.355
2007	IL	BD	EU03	23.86	24.32	0.769	2.011
2007	IL	BD	ES04	23.86	26.48	0.001	0.485
2007	IL	BD	NM01	23.86	29.64	1.8	90
2007	IL	BD	NM02	23.86	31.32	1.8	90
2007	IL	BD	NM03	23.86	33.02	1.8	90
2007	IL	BD	NM04	23.86	34.7	1.8	90
2007	IL	BD	NM05	23.86	36.4	1.8	90
2007	IL	BD	NM06	23.86	38.08	1.8	90
2007	IL	BE	EU01	23	22.13	3.765	36.505
2007	IL	BE	EU02	23	22.51	0.111	1.074
2007	IL	BE	EU03	23	23.05	0.554	5.368
2007	IL	BE	EU04	23	23.84	0.886	8.589
2007	IL	BE	ES05	23	24.07	0.256	1.327
2007	IL	BE	EU06	23	24.32	3.654	35.431
2007	IL	BE	EU07	23	25.81	1.661	16.105
2007	IL	BE	ES08	23	26.48	0.035	0.181
2007	IL	BE	NM01	23	28.23	0.75	22.5
2007	IL	BE	NM02	23	28.65	0.75	22.5
2007	IL	BE	NM03	23	29.07	0.75	22.5
2007	IL	BE	EU09	23	29.13	0.443	4.295
2007	IL	BE	NM04	23	29.5	0.75	22.5
2007	IL	BE	NM05	23	29.92	0.75	22.5
2007	IL	BE	NM06	23	30.34	0.75	22.5
2007	IL	BE	NM07	23	30.77	0.75	22.5
2007	IL	BE	NM08	23	31.19	0.75	22.5
2007	IL	BE	NM09	23	31.61	0.75	22.5
2007	IL	BE	NM10	23	32.04	0.75	22.5
2007	IL	BE	NM11	23	32.46	0.75	22.5
2007	IL	BE	NM12	23	32.89	0.75	22.5
2007	IL	BE	NM13	23	33.31	0.75	22.5
2007	IL	BE	NM14	23	33.73	0.75	22.5
2007	IL	BE	NM15	23	34.16	0.75	22.5
2007	IL	BE	NM16	23	34.58	0.75	22.5
2007	IL	BE	NM17	23	35	0.75	22.5
2007	IL	BE	NM18	23	35.43	0.75	22.5
2007	IL	BE	NM19	23	35.85	0.75	22.5
2007	IL	BE	NM20	23	36.27	0.75	22.5
2007	IL	BE	NM21	23	36.7	0.75	22.5
2007	IL	BE	NM22	23	37.12	0.75	22.5
2007	IL	BE	NM23	23	37.55	0.75	22.5
2007	IL	BE	NM24	23	37.97	0.75	22.5
2007	IL	BE	ES10	23	38.19	0.291	1.508

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	IL	BE	NM25	23	38.39	0.75	22.5
2007	IL	BG	ES01	23.01	21.84	0.025	0.687
2007	IL	BG	EU02	23.01	22.75	5.73	162.271
2007	IL	BG	NM01	23.01	22.99	4	200
2007	IL	BG	EU03	23.01	23.68	0.059	1.673
2007	IL	BG	EU04	23.01	23.84	0.059	1.673
2007	IL	BG	NM02	23.01	23.91	4	200
2007	IL	BG	ES05	23.01	24.07	0.354	9.853
2007	IL	BG	NM03	23.01	24.84	4	200
2007	IL	BG	NM04	23.01	25.77	4	200
2007	IL	BG	ES06	23.01	26.48	0.033	0.917
2007	IL	BG	NM05	23.01	26.7	4	200
2007	IL	BG	NM06	23.01	27.62	4	200
2007	IL	BG	NM07	23.01	28.55	4	200
2007	IL	BG	EU07	23.01	29.13	0.059	1.673
2007	IL	BG	NM08	23.01	29.47	4	200
2007	IL	BG	NM09	23.01	30.4	4	200
2007	IL	BG	NM10	23.01	31.34	4	200
2007	IL	BG	NM11	23.01	32.26	4	200
2007	IL	BG	NM12	23.01	33.19	4	200
2007	IL	BH	NM01	22.19	21.37	5	250
2007	IL	BH	ES01	22.19	21.84	0.324	15.579
2007	IL	BH	NM02	22.19	22.23	5	250
2007	IL	BH	EU02	22.19	22.51	4.899	138.794
2007	IL	BH	EU03	22.19	22.75	1.014	28.716
2007	IL	BH	NM03	22.19	23.09	5	250
2007	IL	BH	EU04	22.19	23.68	4.224	119.65
2007	IL	BH	EU05	22.19	23.7	2.084	59.027
2007	IL	BH	EU06	22.19	23.84	0.019	0.532
2007	IL	BH	NM04	22.19	23.94	5	250
2007	IL	BH	ES07	22.19	24.07	0.048	2.291
2007	IL	BH	EU08	22.19	24.23	0.3	8.508
2007	IL	BH	NM05	22.19	24.8	5	250
2007	IL	BH	ES09	22.19	24.93	0.162	7.79
2007	IL	BH	NM06	22.19	25.66	5	250
2007	IL	BH	EU10	22.19	26.07	0.169	4.786
2007	IL	BH	NM07	22.19	26.51	5	250
2007	IL	BH	NM08	22.19	27.37	5	250
2007	IL	BH	NM09	22.19	28.23	5	250
2007	IL	BH	NM10	22.19	29.08	5	250
2007	IL	BH	ES11	22.19	38.19	0.057	2.749
2008	IL	BB	NM01	24.57	25.71	3	150
2008	IL	BB	NM02	24.57	37.24	3	150
2008	IL	BD	EU01	23.86	22.04	1.357	3.548
2008	IL	BD	EU02	23.86	22.96	0.136	0.355
2008	IL	BD	EU03	23.86	24.22	0.769	2.011
2008	IL	BD	ES04	23.86	26.36	0.001	0.485
2008	IL	BD	NM01	23.86	29.52	1.8	90
2008	IL	BD	NM02	23.86	31.2	1.8	90
2008	IL	BD	NM03	23.86	32.89	1.8	90
2008	IL	BD	NM04	23.86	34.56	1.8	90
2008	IL	BD	NM05	23.86	36.25	1.8	90
2008	IL	BD	NM06	23.86	37.92	1.8	90
2008	IL	BE	EU01	23	22.04	3.765	36.505
2008	IL	BE	EU02	23	22.42	0.111	1.074
2008	IL	BE	EU03	23	22.96	0.554	5.368
2008	IL	BE	EU04	23	23.74	0.886	8.589
2008	IL	BE	ES05	23	23.97	0.256	1.327
2008	IL	BE	EU06	23	24.22	3.654	35.431
2008	IL	BE	EU07	23	25.71	1.661	16.105
2008	IL	BE	ES08	23	26.36	0.035	0.181
2008	IL	BE	NM01	23	28.11	0.75	22.5
2008	IL	BE	NM02	23	28.54	0.75	22.5
2008	IL	BE	NM03	23	28.96	0.75	22.5
2008	IL	BE	EU09	23	29.01	0.443	4.295
2008	IL	BE	NM04	23	29.38	0.75	22.5
2008	IL	BE	NM05	23	29.8	0.75	22.5
2008	IL	BE	NM06	23	30.22	0.75	22.5
2008	IL	BE	NM07	23	30.64	0.75	22.5
2008	IL	BE	NM08	23	31.07	0.75	22.5
2008	IL	BE	NM09	23	31.49	0.75	22.5
2008	IL	BE	NM10	23	31.92	0.75	22.5
2008	IL	BE	NM11	23	32.33	0.75	22.5
2008	IL	BE	NM12	23	32.75	0.75	22.5
2008	IL	BE	NM13	23	33.18	0.75	22.5
2008	IL	BE	NM14	23	33.6	0.75	22.5
2008	IL	BE	NM15	23	34.02	0.75	22.5

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	IL	BE	NM16	23	34.43	0.75	22.5
2008	IL	BE	NM17	23	34.86	0.75	22.5
2008	IL	BE	NM18	23	35.28	0.75	22.5
2008	IL	BE	NM19	23	35.71	0.75	22.5
2008	IL	BE	NM20	23	36.13	0.75	22.5
2008	IL	BE	NM21	23	36.55	0.75	22.5
2008	IL	BE	NM22	23	36.97	0.75	22.5
2008	IL	BE	NM23	23	37.39	0.75	22.5
2008	IL	BE	NM24	23	37.81	0.75	22.5
2008	IL	BE	ES10	23	38.04	0.291	1.508
2008	IL	BE	NM25	23	38.24	0.75	22.5
2008	IL	BG	ES01	23.01	21.75	0.025	0.687
2008	IL	BG	EU02	23.01	22.66	5.73	162.271
2008	IL	BG	NM01	23.01	22.9	4	200
2008	IL	BG	EU03	23.01	23.58	0.059	1.673
2008	IL	BG	EU04	23.01	23.74	0.059	1.673
2008	IL	BG	NM02	23.01	23.82	4	200
2008	IL	BG	ES05	23.01	23.97	0.354	9.853
2008	IL	BG	NM03	23.01	24.74	4	200
2008	IL	BG	NM04	23.01	25.66	4	200
2008	IL	BG	ES06	23.01	26.36	0.033	0.917
2008	IL	BG	NM05	23.01	26.59	4	200
2008	IL	BG	NM06	23.01	27.51	4	200
2008	IL	BG	NM07	23.01	28.44	4	200
2008	IL	BG	EU07	23.01	29.01	0.059	1.673
2008	IL	BG	NM08	23.01	29.36	4	200
2008	IL	BG	NM09	23.01	30.29	4	200
2008	IL	BG	NM10	23.01	31.2	4	200
2008	IL	BG	NM11	23.01	32.13	4	200
2008	IL	BG	NM12	23.01	33.05	4	200
2008	IL	BH	NM01	22.19	21.29	5	250
2008	IL	BH	ES01	22.19	21.75	0.324	15.579
2008	IL	BH	NM02	22.19	22.14	5	250
2008	IL	BH	EU02	22.19	22.42	4.899	138.794
2008	IL	BH	EU03	22.19	22.66	1.014	28.716
2008	IL	BH	NM03	22.19	23	5	250
2008	IL	BH	EU04	22.19	23.58	4.224	119.65
2008	IL	BH	EU05	22.19	23.6	2.084	59.027
2008	IL	BH	EU06	22.19	23.74	0.019	0.532
2008	IL	BH	NM04	22.19	23.84	5	250
2008	IL	BH	ES07	22.19	23.97	0.048	2.291
2008	IL	BH	EU08	22.19	24.13	0.3	8.508
2008	IL	BH	NM05	22.19	24.7	5	250
2008	IL	BH	ES09	22.19	24.83	0.162	7.79
2008	IL	BH	NM06	22.19	25.55	5	250
2008	IL	BH	EU10	22.19	25.97	0.169	4.786
2008	IL	BH	NM07	22.19	26.41	5	250
2008	IL	BH	NM08	22.19	27.26	5	250
2008	IL	BH	NM09	22.19	28.11	5	250
2008	IL	BH	NM10	22.19	28.97	5	250
2008	IL	BH	ES11	22.19	38.04	0.057	2.749
2009	IL	BB	NM01	24.57	25.61	3	150
2009	IL	BB	NM02	24.57	37.09	3	150
2009	IL	BD	EU01	23.86	21.95	1.357	3.548
2009	IL	BD	EU02	23.86	22.87	0.136	0.355
2009	IL	BD	EU03	23.86	24.12	0.769	2.011
2009	IL	BD	ES04	23.86	26.26	0.001	0.485
2009	IL	BD	NM01	23.86	29.41	1.8	90
2009	IL	BD	NM02	23.86	31.07	1.8	90
2009	IL	BD	NM03	23.86	32.75	1.8	90
2009	IL	BD	NM04	23.86	34.42	1.8	90
2009	IL	BD	NM05	23.86	36.11	1.8	90
2009	IL	BD	NM06	23.86	37.77	1.8	90
2009	IL	BE	EU01	23	21.95	3.765	36.505
2009	IL	BE	EU02	23	22.33	0.111	1.074
2009	IL	BE	EU03	23	22.87	0.554	5.368
2009	IL	BE	EU04	23	23.66	0.886	8.589
2009	IL	BE	ES05	23	23.88	0.256	1.327
2009	IL	BE	EU06	23	24.12	3.654	35.431
2009	IL	BE	EU07	23	25.59	1.661	16.105
2009	IL	BE	ES08	23	26.26	0.035	0.181
2009	IL	BE	NM01	23	28	0.75	22.5
2009	IL	BE	NM02	23	28.43	0.75	22.5
2009	IL	BE	NM03	23	28.84	0.75	22.5
2009	IL	BE	EU09	23	28.89	0.443	4.295
2009	IL	BE	NM04	23	29.26	0.75	22.5
2009	IL	BE	NM05	23	29.69	0.75	22.5

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	IL	BE	NM06	23	30.1	0.75	22.5
2009	IL	BE	NM07	23	30.52	0.75	22.5
2009	IL	BE	NM08	23	30.95	0.75	22.5
2009	IL	BE	NM09	23	31.36	0.75	22.5
2009	IL	BE	NM10	23	31.78	0.75	22.5
2009	IL	BE	NM11	23	32.21	0.75	22.5
2009	IL	BE	NM12	23	32.62	0.75	22.5
2009	IL	BE	NM13	23	33.04	0.75	22.5
2009	IL	BE	NM14	23	33.46	0.75	22.5
2009	IL	BE	NM15	23	33.88	0.75	22.5
2009	IL	BE	NM16	23	34.3	0.75	22.5
2009	IL	BE	NM17	23	34.72	0.75	22.5
2009	IL	BE	NM18	23	35.14	0.75	22.5
2009	IL	BE	NM19	23	35.56	0.75	22.5
2009	IL	BE	NM20	23	35.98	0.75	22.5
2009	IL	BE	NM21	23	36.41	0.75	22.5
2009	IL	BE	NM22	23	36.82	0.75	22.5
2009	IL	BE	NM23	23	37.24	0.75	22.5
2009	IL	BE	NM24	23	37.67	0.75	22.5
2009	IL	BE	ES10	23	37.89	0.291	1.508
2009	IL	BE	NM25	23	38.08	0.75	22.5
2009	IL	BG	ES01	23.01	21.67	0.025	0.687
2009	IL	BG	EU02	23.01	22.56	5.73	162.271
2009	IL	BG	NM01	23.01	22.8	4	200
2009	IL	BG	EU03	23.01	23.49	0.059	1.673
2009	IL	BG	EU04	23.01	23.66	0.059	1.673
2009	IL	BG	NM02	23.01	23.72	4	200
2009	IL	BG	ES05	23.01	23.88	0.354	9.853
2009	IL	BG	NM03	23.01	24.65	4	200
2009	IL	BG	NM04	23.01	25.56	4	200
2009	IL	BG	ES06	23.01	26.26	0.033	0.917
2009	IL	BG	NM05	23.01	26.49	4	200
2009	IL	BG	NM06	23.01	27.4	4	200
2009	IL	BG	NM07	23.01	28.33	4	200
2009	IL	BG	EU07	23.01	28.89	0.059	1.673
2009	IL	BG	NM08	23.01	29.24	4	200
2009	IL	BG	NM09	23.01	30.17	4	200
2009	IL	BG	NM10	23.01	31.08	4	200
2009	IL	BG	NM11	23.01	32	4	200
2009	IL	BG	NM12	23.01	32.92	4	200
2009	IL	BH	NM01	22.19	21.2	5	250
2009	IL	BH	ES01	22.19	21.67	0.324	15.579
2009	IL	BH	NM02	22.19	22.05	5	250
2009	IL	BH	EU02	22.19	22.33	4.899	138.794
2009	IL	BH	EU03	22.19	22.56	1.014	28.716
2009	IL	BH	NM03	22.19	22.9	5	250
2009	IL	BH	EU04	22.19	23.49	4.224	119.65
2009	IL	BH	EU05	22.19	23.51	2.084	59.027
2009	IL	BH	EU06	22.19	23.66	0.019	0.532
2009	IL	BH	NM04	22.19	23.76	5	250
2009	IL	BH	ES07	22.19	23.88	0.048	2.291
2009	IL	BH	EU08	22.19	24.03	0.3	8.508
2009	IL	BH	NM05	22.19	24.6	5	250
2009	IL	BH	ES09	22.19	24.73	0.162	7.79
2009	IL	BH	NM06	22.19	25.45	5	250
2009	IL	BH	EU10	22.19	25.87	0.169	4.786
2009	IL	BH	NM07	22.19	26.3	5	250
2009	IL	BH	NM08	22.19	27.16	5	250
2009	IL	BH	NM09	22.19	28	5	250
2009	IL	BH	NM10	22.19	28.85	5	250
2009	IL	BH	ES11	22.19	37.89	0.057	2.749
2010	IL	BB	NM01	24.57	25.49	3	150
2010	IL	BB	NM02	24.57	36.94	3	150
2010	IL	BD	EU01	23.86	21.86	1.357	3.548
2010	IL	BD	EU02	23.86	22.77	0.136	0.355
2010	IL	BD	EU03	23.86	24.03	0.769	2.011
2010	IL	BD	ES04	23.86	26.15	0.001	0.485
2010	IL	BD	NM01	23.86	29.28	1.8	90
2010	IL	BD	NM02	23.86	30.95	1.8	90
2010	IL	BD	NM03	23.86	32.62	1.8	90
2010	IL	BD	NM04	23.86	34.29	1.8	90
2010	IL	BD	NM05	23.86	35.96	1.8	90
2010	IL	BD	NM06	23.86	37.62	1.8	90
2010	IL	BE	EU01	23	21.86	3.765	36.505
2010	IL	BE	EU02	23	22.24	0.111	1.074
2010	IL	BE	EU03	23	22.77	0.554	5.368
2010	IL	BE	EU04	23	23.55	0.886	8.589

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	IL	BE	ES05	23	23.78	0.256	1.327
2010	IL	BE	EU06	23	24.03	3.654	35.431
2010	IL	BE	EU07	23	25.49	1.661	16.105
2010	IL	BE	ES08	23	26.15	0.035	0.181
2010	IL	BE	NM01	23	27.89	0.75	22.5
2010	IL	BE	NM02	23	28.3	0.75	22.5
2010	IL	BE	NM03	23	28.73	0.75	22.5
2010	IL	BE	EU09	23	28.77	0.443	4.295
2010	IL	BE	NM04	23	29.14	0.75	22.5
2010	IL	BE	NM05	23	29.56	0.75	22.5
2010	IL	BE	NM06	23	29.99	0.75	22.5
2010	IL	BE	NM07	23	30.4	0.75	22.5
2010	IL	BE	NM08	23	30.82	0.75	22.5
2010	IL	BE	NM09	23	31.24	0.75	22.5
2010	IL	BE	NM10	23	31.66	0.75	22.5
2010	IL	BE	NM11	23	32.07	0.75	22.5
2010	IL	BE	NM12	23	32.5	0.75	22.5
2010	IL	BE	NM13	23	32.91	0.75	22.5
2010	IL	BE	NM14	23	33.33	0.75	22.5
2010	IL	BE	NM15	23	33.74	0.75	22.5
2010	IL	BE	NM16	23	34.17	0.75	22.5
2010	IL	BE	NM17	23	34.58	0.75	22.5
2010	IL	BE	NM18	23	35	0.75	22.5
2010	IL	BE	NM19	23	35.42	0.75	22.5
2010	IL	BE	NM20	23	35.84	0.75	22.5
2010	IL	BE	NM21	23	36.25	0.75	22.5
2010	IL	BE	NM22	23	36.68	0.75	22.5
2010	IL	BE	NM23	23	37.1	0.75	22.5
2010	IL	BE	NM24	23	37.51	0.75	22.5
2010	IL	BE	ES10	23	37.73	0.291	1.508
2010	IL	BE	NM25	23	37.94	0.75	22.5
2010	IL	BG	ES01	23.01	21.58	0.025	0.687
2010	IL	BG	EU02	23.01	22.47	5.73	162.271
2010	IL	BG	NM01	23.01	22.71	4	200
2010	IL	BG	EU03	23.01	23.39	0.059	1.673
2010	IL	BG	EU04	23.01	23.55	0.059	1.673
2010	IL	BG	NM02	23.01	23.62	4	200
2010	IL	BG	ES05	23.01	23.78	0.354	9.853
2010	IL	BG	NM03	23.01	24.55	4	200
2010	IL	BG	NM04	23.01	25.46	4	200
2010	IL	BG	ES06	23.01	26.15	0.033	0.917
2010	IL	BG	NM05	23.01	26.38	4	200
2010	IL	BG	NM06	23.01	27.29	4	200
2010	IL	BG	NM07	23.01	28.2	4	200
2010	IL	BG	EU07	23.01	28.77	0.059	1.673
2010	IL	BG	NM08	23.01	29.13	4	200
2010	IL	BG	NM09	23.01	30.04	4	200
2010	IL	BG	NM10	23.01	30.96	4	200
2010	IL	BG	NM11	23.01	31.87	4	200
2010	IL	BG	NM12	23.01	32.8	4	200
2010	IL	BH	NM01	22.19	21.11	5	250
2010	IL	BH	ES01	22.19	21.58	0.324	15.579
2010	IL	BH	NM02	22.19	21.96	5	250
2010	IL	BH	EU02	22.19	22.24	4.899	138.794
2010	IL	BH	EU03	22.19	22.47	1.014	28.716
2010	IL	BH	NM03	22.19	22.81	5	250
2010	IL	BH	EU04	22.19	23.39	4.224	119.65
2010	IL	BH	EU05	22.19	23.41	2.084	59.027
2010	IL	BH	EU06	22.19	23.55	0.019	0.532
2010	IL	BH	NM04	22.19	23.66	5	250
2010	IL	BH	ES07	22.19	23.78	0.048	2.291
2010	IL	BH	EU08	22.19	23.94	0.3	8.508
2010	IL	BH	NM05	22.19	24.5	5	250
2010	IL	BH	ES09	22.19	24.62	0.162	7.79
2010	IL	BH	NM06	22.19	25.35	5	250
2010	IL	BH	EU10	22.19	25.76	0.169	4.786
2010	IL	BH	NM07	22.19	26.2	5	250
2010	IL	BH	NM08	22.19	27.04	5	250
2010	IL	BH	NM09	22.19	27.89	5	250
2010	IL	BH	NM10	22.19	28.74	5	250
2010	IL	BH	ES11	22.19	37.73	0.057	2.749
2015	IL	BB	NM01	24.57	24.99	3	150
2015	IL	BB	NM02	24.57	36.21	3	150
2015	IL	BD	EU01	23.86	21.44	1.357	3.548
2015	IL	BD	EU02	23.86	22.33	0.136	0.355
2015	IL	BD	EU03	23.86	23.55	0.769	2.011
2015	IL	BD	ES04	23.86	25.64	0.001	0.485

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	IL	BD	NM01	23.86	28.7	1.8	90
2015	IL	BD	NM02	23.86	30.33	1.8	90
2015	IL	BD	NM03	23.86	31.97	1.8	90
2015	IL	BD	NM04	23.86	33.61	1.8	90
2015	IL	BD	NM05	23.86	35.25	1.8	90
2015	IL	BD	NM06	23.86	36.88	1.8	90
2015	IL	BE	EU01	23	21.44	3.765	36.505
2015	IL	BE	EU02	23	21.79	0.111	1.074
2015	IL	BE	EU03	23	22.33	0.554	5.368
2015	IL	BE	EU04	23	23.1	0.886	8.589
2015	IL	BE	ES05	23	23.31	0.256	1.327
2015	IL	BE	EU06	23	23.55	3.654	35.431
2015	IL	BE	EU07	23	24.99	1.661	16.105
2015	IL	BE	ES08	23	25.64	0.035	0.181
2015	IL	BE	NM01	23	27.33	0.75	22.5
2015	IL	BE	NM02	23	27.75	0.75	22.5
2015	IL	BE	NM03	23	28.16	0.75	22.5
2015	IL	BE	EU09	23	28.2	0.443	4.295
2015	IL	BE	NM04	23	28.57	0.75	22.5
2015	IL	BE	NM05	23	28.97	0.75	22.5
2015	IL	BE	NM06	23	29.38	0.75	22.5
2015	IL	BE	NM07	23	29.8	0.75	22.5
2015	IL	BE	NM08	23	30.21	0.75	22.5
2015	IL	BE	NM09	23	30.62	0.75	22.5
2015	IL	BE	NM10	23	31.02	0.75	22.5
2015	IL	BE	NM11	23	31.44	0.75	22.5
2015	IL	BE	NM12	23	31.85	0.75	22.5
2015	IL	BE	NM13	23	32.26	0.75	22.5
2015	IL	BE	NM14	23	32.66	0.75	22.5
2015	IL	BE	NM15	23	33.07	0.75	22.5
2015	IL	BE	NM16	23	33.49	0.75	22.5
2015	IL	BE	NM17	23	33.9	0.75	22.5
2015	IL	BE	NM18	23	34.31	0.75	22.5
2015	IL	BE	NM19	23	34.71	0.75	22.5
2015	IL	BE	NM20	23	35.13	0.75	22.5
2015	IL	BE	NM21	23	35.54	0.75	22.5
2015	IL	BE	NM22	23	35.95	0.75	22.5
2015	IL	BE	NM23	23	36.36	0.75	22.5
2015	IL	BE	NM24	23	36.76	0.75	22.5
2015	IL	BE	ES10	23	36.99	0.291	1.508
2015	IL	BE	NM25	23	37.18	0.75	22.5
2015	IL	BG	ES01	23.01	21.15	0.025	0.687
2015	IL	BG	EU02	23.01	22.03	5.73	162.271
2015	IL	BG	NM01	23.01	22.26	4	200
2015	IL	BG	EU03	23.01	22.93	0.059	1.673
2015	IL	BG	EU04	23.01	23.1	0.059	1.673
2015	IL	BG	NM02	23.01	23.15	4	200
2015	IL	BG	ES05	23.01	23.31	0.354	9.853
2015	IL	BG	NM03	23.01	24.06	4	200
2015	IL	BG	NM04	23.01	24.96	4	200
2015	IL	BG	ES06	23.01	25.64	0.033	0.917
2015	IL	BG	NM05	23.01	25.85	4	200
2015	IL	BG	NM06	23.01	26.75	4	200
2015	IL	BG	NM07	23.01	27.65	4	200
2015	IL	BG	EU07	23.01	28.2	0.059	1.673
2015	IL	BG	NM08	23.01	28.55	4	200
2015	IL	BG	NM09	23.01	29.44	4	200
2015	IL	BG	NM10	23.01	30.34	4	200
2015	IL	BG	NM11	23.01	31.25	4	200
2015	IL	BG	NM12	23.01	32.14	4	200
2015	IL	BH	NM01	22.19	20.7	5	250
2015	IL	BH	ES01	22.19	21.15	0.324	15.579
2015	IL	BH	NM02	22.19	21.53	5	250
2015	IL	BH	EU02	22.19	21.79	4.899	138.794
2015	IL	BH	EU03	22.19	22.03	1.014	28.716
2015	IL	BH	NM03	22.19	22.36	5	250
2015	IL	BH	EU04	22.19	22.93	4.224	119.65
2015	IL	BH	EU05	22.19	22.95	2.084	59.027
2015	IL	BH	EU06	22.19	23.1	0.019	0.532
2015	IL	BH	NM04	22.19	23.19	5	250
2015	IL	BH	ES07	22.19	23.31	0.048	2.291
2015	IL	BH	EU08	22.19	23.47	0.3	8.508
2015	IL	BH	NM05	22.19	24.01	5	250
2015	IL	BH	ES09	22.19	24.13	0.162	7.79
2015	IL	BH	NM06	22.19	24.85	5	250
2015	IL	BH	EU10	22.19	25.26	0.169	4.786
2015	IL	BH	NM07	22.19	25.67	5	250

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	IL	BH	NM08	22.19	26.51	5	250
2015	IL	BH	NM09	22.19	27.33	5	250
2015	IL	BH	NM10	22.19	28.17	5	250
2015	IL	BH	ES11	22.19	36.99	0.057	2.749
2020	IL	BB	NM01	24.57	24.5	3	150
2020	IL	BB	NM02	24.57	35.49	3	150
2020	IL	BD	EU01	23.86	21	1.357	3.548
2020	IL	BD	EU02	23.86	21.88	0.136	0.355
2020	IL	BD	EU03	23.86	23.09	0.769	2.011
2020	IL	BD	ES04	23.86	25.13	0.001	0.485
2020	IL	BD	NM01	23.86	28.14	1.8	90
2020	IL	BD	NM02	23.86	29.73	1.8	90
2020	IL	BD	NM03	23.86	31.34	1.8	90
2020	IL	BD	NM04	23.86	32.94	1.8	90
2020	IL	BD	NM05	23.86	34.55	1.8	90
2020	IL	BD	NM06	23.86	36.14	1.8	90
2020	IL	BE	EU01	23	21	3.765	36.505
2020	IL	BE	EU02	23	21.36	0.111	1.074
2020	IL	BE	EU03	23	21.88	0.554	5.368
2020	IL	BE	EU04	23	22.63	0.886	8.589
2020	IL	BE	ES05	23	22.84	0.256	1.327
2020	IL	BE	EU06	23	23.09	3.654	35.431
2020	IL	BE	EU07	23	24.49	1.661	16.105
2020	IL	BE	ES08	23	25.13	0.035	0.181
2020	IL	BE	NM01	23	26.8	0.75	22.5
2020	IL	BE	NM02	23	27.2	0.75	22.5
2020	IL	BE	NM03	23	27.6	0.75	22.5
2020	IL	BE	EU09	23	27.65	0.443	4.295
2020	IL	BE	NM04	23	28	0.75	22.5
2020	IL	BE	NM05	23	28.4	0.75	22.5
2020	IL	BE	NM06	23	28.81	0.75	22.5
2020	IL	BE	NM07	23	29.21	0.75	22.5
2020	IL	BE	NM08	23	29.61	0.75	22.5
2020	IL	BE	NM09	23	30.01	0.75	22.5
2020	IL	BE	NM10	23	30.41	0.75	22.5
2020	IL	BE	NM11	23	30.81	0.75	22.5
2020	IL	BE	NM12	23	31.21	0.75	22.5
2020	IL	BE	NM13	23	31.61	0.75	22.5
2020	IL	BE	NM14	23	32.02	0.75	22.5
2020	IL	BE	NM15	23	32.42	0.75	22.5
2020	IL	BE	NM16	23	32.82	0.75	22.5
2020	IL	BE	NM17	23	33.22	0.75	22.5
2020	IL	BE	NM18	23	33.63	0.75	22.5
2020	IL	BE	NM19	23	34.03	0.75	22.5
2020	IL	BE	NM20	23	34.43	0.75	22.5
2020	IL	BE	NM21	23	34.84	0.75	22.5
2020	IL	BE	NM22	23	35.24	0.75	22.5
2020	IL	BE	NM23	23	35.64	0.75	22.5
2020	IL	BE	NM24	23	36.04	0.75	22.5
2020	IL	BE	ES10	23	36.25	0.291	1.508
2020	IL	BE	NM25	23	36.44	0.75	22.5
2020	IL	BG	ES01	23.01	20.73	0.025	0.687
2020	IL	BG	EU02	23.01	21.59	5.73	162.271
2020	IL	BG	NM01	23.01	21.82	4	200
2020	IL	BG	EU03	23.01	22.47	0.059	1.673
2020	IL	BG	EU04	23.01	22.63	0.059	1.673
2020	IL	BG	NM02	23.01	22.7	4	200
2020	IL	BG	ES05	23.01	22.84	0.354	9.853
2020	IL	BG	NM03	23.01	23.58	4	200
2020	IL	BG	NM04	23.01	24.46	4	200
2020	IL	BG	ES06	23.01	25.13	0.033	0.917
2020	IL	BG	NM05	23.01	25.34	4	200
2020	IL	BG	NM06	23.01	26.22	4	200
2020	IL	BG	NM07	23.01	27.1	4	200
2020	IL	BG	EU07	23.01	27.65	0.059	1.673
2020	IL	BG	NM08	23.01	27.98	4	200
2020	IL	BG	NM09	23.01	28.86	4	200
2020	IL	BG	NM10	23.01	29.74	4	200
2020	IL	BG	NM11	23.01	30.62	4	200
2020	IL	BG	NM12	23.01	31.5	4	200
2020	IL	BH	NM01	22.19	20.29	5	250
2020	IL	BH	ES01	22.19	20.73	0.324	15.579
2020	IL	BH	NM02	22.19	21.1	5	250
2020	IL	BH	EU02	22.19	21.36	4.899	138.794
2020	IL	BH	EU03	22.19	21.59	1.014	28.716
2020	IL	BH	NM03	22.19	21.92	5	250
2020	IL	BH	EU04	22.19	22.47	4.224	119.65

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	IL	BH	EU05	22.19	22.5	2.084	59.027
2020	IL	BH	EU06	22.19	22.63	0.019	0.532
2020	IL	BH	NM04	22.19	22.73	5	250
2020	IL	BH	ES07	22.19	22.84	0.048	2.291
2020	IL	BH	EU08	22.19	23	0.3	8.508
2020	IL	BH	NM05	22.19	23.54	5	250
2020	IL	BH	ES09	22.19	23.66	0.162	7.79
2020	IL	BH	NM06	22.19	24.36	5	250
2020	IL	BH	EU10	22.19	24.76	0.169	4.786
2020	IL	BH	NM07	22.19	25.17	5	250
2020	IL	BH	NM08	22.19	25.98	5	250
2020	IL	BH	NM09	22.19	26.8	5	250
2020	IL	BH	NM10	22.19	27.61	5	250
2020	IL	BH	ES11	22.19	36.25	0.057	2.749
2025	IL	BB	NM01	24.57	24.01	3	150
2025	IL	BB	NM02	24.57	34.79	3	150
2025	IL	BD	EU01	23.86	20.59	1.357	3.548
2025	IL	BD	EU02	23.86	21.45	0.136	0.355
2025	IL	BD	EU03	23.86	22.63	0.769	2.011
2025	IL	BD	ES04	23.86	24.62	0.001	0.485
2025	IL	BD	NM01	23.86	27.58	1.8	90
2025	IL	BD	NM02	23.86	29.14	1.8	90
2025	IL	BD	NM03	23.86	30.72	1.8	90
2025	IL	BD	NM04	23.86	32.28	1.8	90
2025	IL	BD	NM05	23.86	33.86	1.8	90
2025	IL	BD	NM06	23.86	35.43	1.8	90
2025	IL	BE	EU01	23	20.59	3.765	36.505
2025	IL	BE	EU02	23	20.94	0.111	1.074
2025	IL	BE	EU03	23	21.45	0.554	5.368
2025	IL	BE	EU04	23	22.18	0.886	8.589
2025	IL	BE	ES05	23	22.4	0.256	1.327
2025	IL	BE	EU06	23	22.63	3.654	35.431
2025	IL	BE	EU07	23	24.01	1.661	16.105
2025	IL	BE	ES08	23	24.62	0.035	0.181
2025	IL	BE	NM01	23	26.26	0.75	22.5
2025	IL	BE	NM02	23	26.65	0.75	22.5
2025	IL	BE	NM03	23	27.06	0.75	22.5
2025	IL	BE	EU09	23	27.1	0.443	4.295
2025	IL	BE	NM04	23	27.45	0.75	22.5
2025	IL	BE	NM05	23	27.84	0.75	22.5
2025	IL	BE	NM06	23	28.24	0.75	22.5
2025	IL	BE	NM07	23	28.63	0.75	22.5
2025	IL	BE	NM08	23	29.02	0.75	22.5
2025	IL	BE	NM09	23	29.42	0.75	22.5
2025	IL	BE	NM10	23	29.81	0.75	22.5
2025	IL	BE	NM11	23	30.2	0.75	22.5
2025	IL	BE	NM12	23	30.6	0.75	22.5
2025	IL	BE	NM13	23	30.99	0.75	22.5
2025	IL	BE	NM14	23	31.38	0.75	22.5
2025	IL	BE	NM15	23	31.78	0.75	22.5
2025	IL	BE	NM16	23	32.17	0.75	22.5
2025	IL	BE	NM17	23	32.56	0.75	22.5
2025	IL	BE	NM18	23	32.96	0.75	22.5
2025	IL	BE	NM19	23	33.35	0.75	22.5
2025	IL	BE	NM20	23	33.74	0.75	22.5
2025	IL	BE	NM21	23	34.14	0.75	22.5
2025	IL	BE	NM22	23	34.54	0.75	22.5
2025	IL	BE	NM23	23	34.93	0.75	22.5
2025	IL	BE	NM24	23	35.33	0.75	22.5
2025	IL	BE	ES10	23	35.53	0.291	1.508
2025	IL	BE	NM25	23	35.72	0.75	22.5
2025	IL	BG	ES01	23.01	20.32	0.025	0.687
2025	IL	BG	EU02	23.01	21.17	5.73	162.271
2025	IL	BG	NM01	23.01	21.38	4	200
2025	IL	BG	EU03	23.01	22.03	0.059	1.673
2025	IL	BG	EU04	23.01	22.18	0.059	1.673
2025	IL	BG	NM02	23.01	22.25	4	200
2025	IL	BG	ES05	23.01	22.4	0.354	9.853
2025	IL	BG	NM03	23.01	23.11	4	200
2025	IL	BG	NM04	23.01	23.98	4	200
2025	IL	BG	ES06	23.01	24.62	0.033	0.917
2025	IL	BG	NM05	23.01	24.84	4	200
2025	IL	BG	NM06	23.01	25.7	4	200
2025	IL	BG	NM07	23.01	26.56	4	200
2025	IL	BG	EU07	23.01	27.1	0.059	1.673
2025	IL	BG	NM08	23.01	27.42	4	200
2025	IL	BG	NM09	23.01	28.29	4	200

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	IL	BG	NM10	23.01	29.15	4	200
2025	IL	BG	NM11	23.01	30.01	4	200
2025	IL	BG	NM12	23.01	30.88	4	200
2025	IL	BH	NM01	22.19	19.89	5	250
2025	IL	BH	ES01	22.19	20.32	0.324	15.579
2025	IL	BH	NM02	22.19	20.68	5	250
2025	IL	BH	EU02	22.19	20.94	4.899	138.794
2025	IL	BH	EU03	22.19	21.17	1.014	28.716
2025	IL	BH	NM03	22.19	21.48	5	250
2025	IL	BH	EU04	22.19	22.03	4.224	119.65
2025	IL	BH	EU05	22.19	22.05	2.084	59.027
2025	IL	BH	EU06	22.19	22.18	0.019	0.532
2025	IL	BH	NM04	22.19	22.27	5	250
2025	IL	BH	ES07	22.19	22.4	0.048	2.291
2025	IL	BH	EU08	22.19	22.54	0.3	8.508
2025	IL	BH	NM05	22.19	23.08	5	250
2025	IL	BH	ES09	22.19	23.19	0.162	7.79
2025	IL	BH	NM06	22.19	23.87	5	250
2025	IL	BH	EU10	22.19	24.27	0.169	4.786
2025	IL	BH	NM07	22.19	24.67	5	250
2025	IL	BH	NM08	22.19	25.46	5	250
2025	IL	BH	NM09	22.19	26.26	5	250
2025	IL	BH	NM10	22.19	27.06	5	250
2025	IL	BH	ES11	22.19	35.53	0.057	2.749
2035	IL	BB	NM01	24.57	23.53	3	150
2035	IL	BB	NM02	24.57	34.1	3	150
2035	IL	BD	EU01	23.86	20.18	1.357	3.548
2035	IL	BD	EU02	23.86	21.02	0.136	0.355
2035	IL	BD	EU03	23.86	22.18	0.769	2.011
2035	IL	BD	ES04	23.86	24.15	0.001	0.485
2035	IL	BD	NM01	23.86	27.03	1.8	90
2035	IL	BD	NM02	23.86	28.56	1.8	90
2035	IL	BD	NM03	23.86	30.11	1.8	90
2035	IL	BD	NM04	23.86	31.65	1.8	90
2035	IL	BD	NM05	23.86	33.19	1.8	90
2035	IL	BD	NM06	23.86	34.72	1.8	90
2035	IL	BE	EU01	23	20.18	3.765	36.505
2035	IL	BE	EU02	23	20.52	0.111	1.074
2035	IL	BE	EU03	23	21.02	0.554	5.368
2035	IL	BE	EU04	23	21.75	0.886	8.589
2035	IL	BE	ES05	23	21.95	0.256	1.327
2035	IL	BE	EU06	23	22.18	3.654	35.431
2035	IL	BE	EU07	23	23.53	1.661	16.105
2035	IL	BE	ES08	23	24.15	0.035	0.181
2035	IL	BE	NM01	23	25.74	0.75	22.5
2035	IL	BE	NM02	23	26.13	0.75	22.5
2035	IL	BE	NM03	23	26.51	0.75	22.5
2035	IL	BE	EU09	23	26.56	0.443	4.295
2035	IL	BE	NM04	23	26.9	0.75	22.5
2035	IL	BE	NM05	23	27.29	0.75	22.5
2035	IL	BE	NM06	23	27.67	0.75	22.5
2035	IL	BE	NM07	23	28.06	0.75	22.5
2035	IL	BE	NM08	23	28.45	0.75	22.5
2035	IL	BE	NM09	23	28.83	0.75	22.5
2035	IL	BE	NM10	23	29.22	0.75	22.5
2035	IL	BE	NM11	23	29.61	0.75	22.5
2035	IL	BE	NM12	23	29.99	0.75	22.5
2035	IL	BE	NM13	23	30.38	0.75	22.5
2035	IL	BE	NM14	23	30.76	0.75	22.5
2035	IL	BE	NM15	23	31.15	0.75	22.5
2035	IL	BE	NM16	23	31.54	0.75	22.5
2035	IL	BE	NM17	23	31.92	0.75	22.5
2035	IL	BE	NM18	23	32.31	0.75	22.5
2035	IL	BE	NM19	23	32.7	0.75	22.5
2035	IL	BE	NM20	23	33.07	0.75	22.5
2035	IL	BE	NM21	23	33.46	0.75	22.5
2035	IL	BE	NM22	23	33.86	0.75	22.5
2035	IL	BE	NM23	23	34.23	0.75	22.5
2035	IL	BE	NM24	23	34.62	0.75	22.5
2035	IL	BE	ES10	23	34.82	0.291	1.508
2035	IL	BE	NM25	23	35	0.75	22.5
2035	IL	BG	ES01	23.01	19.92	0.025	0.687
2035	IL	BG	EU02	23.01	20.75	5.73	162.271
2035	IL	BG	NM01	23.01	20.96	4	200
2035	IL	BG	EU03	23.01	21.59	0.059	1.673
2035	IL	BG	EU04	23.01	21.75	0.059	1.673
2035	IL	BG	NM02	23.01	21.8	4	200

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	IL	BG	ES05	23.01	21.95	0.354	9.853
2035	IL	BG	NM03	23.01	22.65	4	200
2035	IL	BG	NM04	23.01	23.5	4	200
2035	IL	BG	ES06	23.01	24.15	0.033	0.917
2035	IL	BG	NM05	23.01	24.35	4	200
2035	IL	BG	NM06	23.01	25.19	4	200
2035	IL	BG	NM07	23.01	26.04	4	200
2035	IL	BG	EU07	23.01	26.56	0.059	1.673
2035	IL	BG	NM08	23.01	26.88	4	200
2035	IL	BG	NM09	23.01	27.72	4	200
2035	IL	BG	NM10	23.01	28.57	4	200
2035	IL	BG	NM11	23.01	29.42	4	200
2035	IL	BG	NM12	23.01	30.27	4	200
2035	IL	BH	NM01	22.19	19.49	5	250
2035	IL	BH	ES01	22.19	19.92	0.324	15.579
2035	IL	BH	NM02	22.19	20.27	5	250
2035	IL	BH	EU02	22.19	20.52	4.899	138.794
2035	IL	BH	EU03	22.19	20.75	1.014	28.716
2035	IL	BH	NM03	22.19	21.06	5	250
2035	IL	BH	EU04	22.19	21.59	4.224	119.65
2035	IL	BH	EU05	22.19	21.62	2.084	59.027
2035	IL	BH	EU06	22.19	21.75	0.019	0.532
2035	IL	BH	NM04	22.19	21.84	5	250
2035	IL	BH	ES07	22.19	21.95	0.048	2.291
2035	IL	BH	EU08	22.19	22.09	0.3	8.508
2035	IL	BH	NM05	22.19	22.62	5	250
2035	IL	BH	ES09	22.19	22.73	0.162	7.79
2035	IL	BH	NM06	22.19	23.4	5	250
2035	IL	BH	EU10	22.19	23.78	0.169	4.786
2035	IL	BH	NM07	22.19	24.18	5	250
2035	IL	BH	NM08	22.19	24.96	5	250
2035	IL	BH	NM09	22.19	25.74	5	250
2035	IL	BH	NM10	22.19	26.52	5	250
2035	IL	BH	ES11	22.19	34.82	0.057	2.749
2007	IN	BB	EU01	22.52	22.79	0.496	5.797
2007	IN	BB	ES02	22.52	23.33	0.01	0.047
2007	IN	BB	ES03	22.52	23.72	0.02	0.166
2007	IN	BB	EU04	22.52	24.5	1.845	21.579
2007	IN	BB	NM01	22.52	25	2.5	50
2007	IN	BB	EU05	22.52	27.86	0.275	3.221
2007	IN	BB	NM02	22.52	31.18	2.5	50
2007	IN	BD	EU01	22.62	22.79	1.56	10.778
2007	IN	BD	ES02	22.62	23.33	0.05	0.378
2007	IN	BD	EU03	22.62	24.5	0.018	0.121
2007	IN	BD	ES04	22.62	25.09	0.02	0.157
2007	IN	BD	ES05	22.62	25.61	0.01	0.064
2007	IN	BD	EU06	22.62	25.64	0.026	0.182
2007	IN	BD	NM01	22.62	27.22	0.5	10
2007	IN	BD	NM02	22.62	29.62	0.5	10
2007	IN	BD	NM03	22.62	32	0.5	10
2007	IN	BD	NM04	22.62	34.41	0.5	10
2007	IN	BE	EU01	23.43	22.82	2.231	13.57
2007	IN	BE	ES02	23.43	23.33	0.383	0.591
2007	IN	BE	ES03	23.43	23.81	0.071	0.11
2007	IN	BE	ES04	23.43	25.06	0.01	0.015
2007	IN	BE	ES05	23.43	25.09	0.084	0.13
2007	IN	BE	NM01	23.43	25.41	0.75	15
2007	IN	BE	ES06	23.43	25.57	0.173	0.267
2007	IN	BE	EU07	23.43	25.64	2.125	12.928
2007	IN	BE	NM02	23.43	28.18	0.75	15
2007	IN	BE	NM03	23.43	30.96	0.75	15
2007	IN	BG	ES01	23.37	20.95	0.004	0.009
2007	IN	BG	EU02	23.37	21.51	0.028	0.278
2007	IN	BG	NM01	23.37	22.58	1.5	45
2007	IN	BG	ES03	23.37	23.33	0.156	0.341
2007	IN	BG	NM02	23.37	23.45	1.5	45
2007	IN	BG	ES04	23.37	23.52	0.004	0.009
2007	IN	BG	ES05	23.37	23.81	0.274	0.596
2007	IN	BG	NM03	23.37	24.3	1.5	45
2007	IN	BG	ES06	23.37	25.06	0.207	0.451
2007	IN	BG	NM04	23.37	25.17	1.5	45
2007	IN	BG	ES07	23.37	25.61	0.016	0.034
2007	IN	BG	EU08	23.37	25.64	0.986	9.724
2007	IN	BG	NM05	23.37	26.03	1.5	45
2007	IN	BG	NM06	23.37	26.9	1.5	45
2007	IN	BG	ES09	23.37	27.06	0.141	0.306
2007	IN	BG	NM07	23.37	27.76	1.5	45

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	IN	BG	NM08	23.37	28.62	1.5	45
2007	IN	BG	NM09	23.37	29.47	1.5	45
2007	IN	BH	ES01	23.41	20.95	0.004	0.01
2007	IN	BH	EU02	23.41	21.51	0.012	0.469
2007	IN	BH	NM01	23.41	22.58	1.5	60
2007	IN	BH	NM02	23.41	22.73	1.5	60
2007	IN	BH	ES03	23.41	22.89	0.306	0.778
2007	IN	BH	NM03	23.41	22.89	1.5	60
2007	IN	BH	NM04	23.41	23.03	1.5	60
2007	IN	BH	ES04	23.41	23.13	1.87	4.758
2007	IN	BH	NM05	23.41	23.19	1.5	60
2007	IN	BH	NM06	23.41	23.34	1.5	60
2007	IN	BH	NM07	23.41	23.49	1.5	60
2007	IN	BH	ES05	23.41	23.52	0.45	1.146
2007	IN	BH	ES06	23.41	23.58	0.205	0.522
2007	IN	BH	NM08	23.41	23.64	1.5	60
2007	IN	BH	NM09	23.41	23.79	1.5	60
2007	IN	BH	ES07	23.41	23.81	0.036	0.092
2007	IN	BH	NM10	23.41	23.94	1.5	60
2007	IN	BH	NM11	23.41	24.09	1.5	60
2007	IN	BH	ES08	23.41	24.23	0.048	0.123
2007	IN	BH	NM12	23.41	24.25	1.5	60
2007	IN	BH	NM13	23.41	24.4	1.5	60
2007	IN	BH	NM14	23.41	24.55	1.5	60
2007	IN	BH	NM15	23.41	24.7	1.5	60
2007	IN	BH	NM16	23.41	24.85	1.5	60
2007	IN	BH	NM17	23.41	25	1.5	60
2007	IN	BH	ES09	23.41	25.06	0.092	0.235
2007	IN	BH	ES10	23.41	25.12	0.189	0.481
2007	IN	BH	NM18	23.41	25.15	1.5	60
2007	IN	BH	NM19	23.41	25.3	1.5	60
2007	IN	BH	NM20	23.41	25.45	1.5	60
2007	IN	BH	ES11	23.41	25.57	1.335	3.397
2007	IN	BH	NM21	23.41	25.61	1.5	60
2007	IN	BH	EU12	23.41	25.64	1.404	54.425
2007	IN	BH	NM22	23.41	25.76	1.5	60
2007	IN	BH	NM23	23.41	25.91	1.5	60
2007	IN	BH	NM24	23.41	26.06	1.5	60
2007	IN	BH	NM25	23.41	26.21	1.5	60
2007	IN	BH	ES13	23.41	26.26	0.289	0.737
2007	IN	BH	NM26	23.41	26.36	1.5	60
2007	IN	BH	NM27	23.41	26.51	1.5	60
2007	IN	BH	NM28	23.41	26.66	1.5	60
2007	IN	BH	NM29	23.41	26.82	1.5	60
2007	IN	BH	NM30	23.41	26.97	1.5	60
2007	IN	BH	ES14	23.41	27.06	0.257	0.655
2007	IN	BH	NM31	23.41	27.12	1.5	60
2007	IN	BH	NM32	23.41	27.27	1.5	60
2007	IN	BH	ES15	23.41	28.44	0.044	0.113
2008	IN	BB	EU01	22.52	22.7	0.496	5.797
2008	IN	BB	ES02	22.52	23.24	0.01	0.047
2008	IN	BB	ES03	22.52	23.63	0.02	0.166
2008	IN	BB	EU04	22.52	24.4	1.845	21.579
2008	IN	BB	NM01	22.52	24.9	2.5	50
2008	IN	BB	EU05	22.52	27.75	0.275	3.221
2008	IN	BB	NM02	22.52	31.06	2.5	50
2008	IN	BD	EU01	22.62	22.7	1.56	10.778
2008	IN	BD	ES02	22.62	23.24	0.05	0.378
2008	IN	BD	EU03	22.62	24.4	0.018	0.121
2008	IN	BD	ES04	22.62	24.99	0	0.157
2008	IN	BD	ES05	22.62	25.51	0.01	0.064
2008	IN	BD	EU06	22.62	25.54	0.026	0.182
2008	IN	BD	NM01	22.62	27.11	0.5	10
2008	IN	BD	NM02	22.62	29.5	0.5	10
2008	IN	BD	NM03	22.62	31.88	0.5	10
2008	IN	BD	NM04	22.62	34.27	0.5	10
2008	IN	BE	EU01	23.43	22.73	2.231	13.57
2008	IN	BE	ES02	23.43	23.24	0.383	0.591
2008	IN	BE	ES03	23.43	23.71	0.071	0.11
2008	IN	BE	ES04	23.43	24.96	0.01	0.015
2008	IN	BE	ES05	23.43	24.99	0.084	0.13
2008	IN	BE	NM01	23.43	25.3	0.75	15
2008	IN	BE	ES06	23.43	25.47	0.173	0.267
2008	IN	BE	EU07	23.43	25.54	2.125	12.928
2008	IN	BE	NM02	23.43	28.07	0.75	15
2008	IN	BE	NM03	23.43	30.83	0.75	15
2008	IN	BG	ES01	23.37	20.87	0.004	0.009

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	IN	BG	EU02	23.37	21.44	0.028	0.278
2008	IN	BG	NM01	23.37	22.5	1.5	45
2008	IN	BG	ES03	23.37	23.24	0.156	0.341
2008	IN	BG	NM02	23.37	23.35	1.5	45
2008	IN	BG	ES04	23.37	23.43	0.004	0.009
2008	IN	BG	ES05	23.37	23.71	0.274	0.596
2008	IN	BG	NM03	23.37	24.21	1.5	45
2008	IN	BG	ES06	23.37	24.96	0.207	0.451
2008	IN	BG	NM04	23.37	25.07	1.5	45
2008	IN	BG	ES07	23.37	25.51	0.016	0.034
2008	IN	BG	EU08	23.37	25.54	0.986	9.724
2008	IN	BG	NM05	23.37	25.93	1.5	45
2008	IN	BG	NM06	23.37	26.79	1.5	45
2008	IN	BG	ES09	23.37	26.94	0.141	0.306
2008	IN	BG	NM07	23.37	27.65	1.5	45
2008	IN	BG	NM08	23.37	28.5	1.5	45
2008	IN	BG	NM09	23.37	29.36	1.5	45
2008	IN	BH	ES01	23.41	20.87	0.004	0.01
2008	IN	BH	EU02	23.41	21.44	0.012	0.469
2008	IN	BH	NM01	23.41	22.5	1.5	60
2008	IN	BH	NM02	23.41	22.64	1.5	60
2008	IN	BH	ES03	23.41	22.79	0.306	0.778
2008	IN	BH	NM03	23.41	22.8	1.5	60
2008	IN	BH	NM04	23.41	22.94	1.5	60
2008	IN	BH	ES04	23.41	23.03	1.87	4.758
2008	IN	BH	NM05	23.41	23.1	1.5	60
2008	IN	BH	NM06	23.41	23.24	1.5	60
2008	IN	BH	NM07	23.41	23.4	1.5	60
2008	IN	BH	ES05	23.41	23.43	0.45	1.146
2008	IN	BH	ES06	23.41	23.49	0.205	0.522
2008	IN	BH	NM08	23.41	23.54	1.5	60
2008	IN	BH	NM09	23.41	23.7	1.5	60
2008	IN	BH	ES07	23.41	23.71	0.036	0.092
2008	IN	BH	NM10	23.41	23.84	1.5	60
2008	IN	BH	NM11	23.41	24	1.5	60
2008	IN	BH	ES08	23.41	24.13	0.048	0.123
2008	IN	BH	NM12	23.41	24.15	1.5	60
2008	IN	BH	NM13	23.41	24.3	1.5	60
2008	IN	BH	NM14	23.41	24.45	1.5	60
2008	IN	BH	NM15	23.41	24.6	1.5	60
2008	IN	BH	NM16	23.41	24.75	1.5	60
2008	IN	BH	NM17	23.41	24.9	1.5	60
2008	IN	BH	ES09	23.41	24.96	0.092	0.235
2008	IN	BH	ES10	23.41	25.02	0.189	0.481
2008	IN	BH	NM18	23.41	25.05	1.5	60
2008	IN	BH	NM19	23.41	25.2	1.5	60
2008	IN	BH	NM20	23.41	25.35	1.5	60
2008	IN	BH	ES11	23.41	25.47	1.335	3.397
2008	IN	BH	NM21	23.41	25.51	1.5	60
2008	IN	BH	EU12	23.41	25.54	1.404	54.425
2008	IN	BH	NM22	23.41	25.65	1.5	60
2008	IN	BH	NM23	23.41	25.81	1.5	60
2008	IN	BH	NM24	23.41	25.95	1.5	60
2008	IN	BH	NM25	23.41	26.11	1.5	60
2008	IN	BH	ES13	23.41	26.16	0.289	0.737
2008	IN	BH	NM26	23.41	26.25	1.5	60
2008	IN	BH	NM27	23.41	26.41	1.5	60
2008	IN	BH	NM28	23.41	26.55	1.5	60
2008	IN	BH	NM29	23.41	26.71	1.5	60
2008	IN	BH	NM30	23.41	26.85	1.5	60
2008	IN	BH	ES14	23.41	26.94	0.257	0.655
2008	IN	BH	NM31	23.41	27.01	1.5	60
2008	IN	BH	NM32	23.41	27.16	1.5	60
2008	IN	BH	ES15	23.41	28.31	0.044	0.113
2009	IN	BB	EU01	22.52	22.61	0.496	5.797
2009	IN	BB	ES02	22.52	23.15	0.01	0.047
2009	IN	BB	ES03	22.52	23.53	0.02	0.166
2009	IN	BB	EU04	22.52	24.3	1.845	21.579
2009	IN	BB	NM01	22.52	24.8	2.5	50
2009	IN	BB	EU05	22.52	27.63	0.275	3.221
2009	IN	BB	NM02	22.52	30.93	2.5	50
2009	IN	BD	EU01	22.62	22.61	1.56	10.778
2009	IN	BD	ES02	22.62	23.15	0.05	0.378
2009	IN	BD	EU03	22.62	24.3	0.018	0.121
2009	IN	BD	ES04	22.62	24.89	0	0.157
2009	IN	BD	ES05	22.62	25.41	0.01	0.064
2009	IN	BD	EU06	22.62	25.44	0.026	0.182

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	IN	BD	NM01	22.62	27	0.5	10
2009	IN	BD	NM02	22.62	29.38	0.5	10
2009	IN	BD	NM03	22.62	31.75	0.5	10
2009	IN	BD	NM04	22.62	34.13	0.5	10
2009	IN	BE	EU01	23.43	22.64	2.231	13.57
2009	IN	BE	ES02	23.43	23.15	0.383	0.591
2009	IN	BE	ES03	23.43	23.62	0.071	0.11
2009	IN	BE	ES04	23.43	24.86	0.01	0.015
2009	IN	BE	ES05	23.43	24.89	0.084	0.13
2009	IN	BE	NM01	23.43	25.2	0.75	15
2009	IN	BE	ES06	23.43	25.37	0.173	0.267
2009	IN	BE	EU07	23.43	25.44	2.125	12.928
2009	IN	BE	NM02	23.43	27.95	0.75	15
2009	IN	BE	NM03	23.43	30.71	0.75	15
2009	IN	BG	ES01	23.37	20.78	0.004	0.009
2009	IN	BG	EU02	23.37	21.35	0.028	0.278
2009	IN	BG	NM01	23.37	22.41	1.5	45
2009	IN	BG	ES03	23.37	23.15	0.156	0.341
2009	IN	BG	NM02	23.37	23.26	1.5	45
2009	IN	BG	ES04	23.37	23.34	0.004	0.009
2009	IN	BG	ES05	23.37	23.62	0.274	0.596
2009	IN	BG	NM03	23.37	24.11	1.5	45
2009	IN	BG	ES06	23.37	24.86	0.207	0.451
2009	IN	BG	NM04	23.37	24.97	1.5	45
2009	IN	BG	ES07	23.37	25.41	0.016	0.034
2009	IN	BG	EU08	23.37	25.44	0.986	9.724
2009	IN	BG	NM05	23.37	25.82	1.5	45
2009	IN	BG	NM06	23.37	26.69	1.5	45
2009	IN	BG	ES09	23.37	26.83	0.141	0.306
2009	IN	BG	NM07	23.37	27.53	1.5	45
2009	IN	BG	NM08	23.37	28.39	1.5	45
2009	IN	BG	NM09	23.37	29.24	1.5	45
2009	IN	BH	ES01	23.41	20.78	0.004	0.01
2009	IN	BH	EU02	23.41	21.35	0.012	0.469
2009	IN	BH	NM01	23.41	22.41	1.5	60
2009	IN	BH	NM02	23.41	22.55	1.5	60
2009	IN	BH	ES03	23.41	22.7	0.306	0.778
2009	IN	BH	NM03	23.41	22.7	1.5	60
2009	IN	BH	NM04	23.41	22.85	1.5	60
2009	IN	BH	ES04	23.41	22.94	1.87	4.758
2009	IN	BH	NM05	23.41	23	1.5	60
2009	IN	BH	NM06	23.41	23.15	1.5	60
2009	IN	BH	NM07	23.41	23.3	1.5	60
2009	IN	BH	ES05	23.41	23.34	0.45	1.146
2009	IN	BH	ES06	23.41	23.39	0.205	0.522
2009	IN	BH	NM08	23.41	23.45	1.5	60
2009	IN	BH	NM09	23.41	23.6	1.5	60
2009	IN	BH	ES07	23.41	23.62	0.036	0.092
2009	IN	BH	NM10	23.41	23.76	1.5	60
2009	IN	BH	NM11	23.41	23.9	1.5	60
2009	IN	BH	ES08	23.41	24.05	0.048	0.123
2009	IN	BH	NM12	23.41	24.06	1.5	60
2009	IN	BH	NM13	23.41	24.2	1.5	60
2009	IN	BH	NM14	23.41	24.35	1.5	60
2009	IN	BH	NM15	23.41	24.5	1.5	60
2009	IN	BH	NM16	23.41	24.65	1.5	60
2009	IN	BH	NM17	23.41	24.8	1.5	60
2009	IN	BH	ES09	23.41	24.86	0.092	0.235
2009	IN	BH	ES10	23.41	24.91	0.189	0.481
2009	IN	BH	NM18	23.41	24.95	1.5	60
2009	IN	BH	NM19	23.41	25.1	1.5	60
2009	IN	BH	NM20	23.41	25.25	1.5	60
2009	IN	BH	ES11	23.41	25.37	1.335	3.397
2009	IN	BH	NM21	23.41	25.41	1.5	60
2009	IN	BH	EU12	23.41	25.44	1.404	54.425
2009	IN	BH	NM22	23.41	25.55	1.5	60
2009	IN	BH	NM23	23.41	25.71	1.5	60
2009	IN	BH	NM24	23.41	25.85	1.5	60
2009	IN	BH	NM25	23.41	26.01	1.5	60
2009	IN	BH	ES13	23.41	26.05	0.289	0.737
2009	IN	BH	NM26	23.41	26.15	1.5	60
2009	IN	BH	NM27	23.41	26.3	1.5	60
2009	IN	BH	NM28	23.41	26.45	1.5	60
2009	IN	BH	NM29	23.41	26.6	1.5	60
2009	IN	BH	NM30	23.41	26.75	1.5	60
2009	IN	BH	ES14	23.41	26.83	0.257	0.655
2009	IN	BH	NM31	23.41	26.9	1.5	60

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	IN	BH	NM32	23.41	27.06	1.5	60
2009	IN	BH	ES15	23.41	28.2	0.044	0.113
2010	IN	BB	EU01	22.52	22.52	0.496	5.797
2010	IN	BB	ES02	22.52	23.05	0.01	0.047
2010	IN	BB	ES03	22.52	23.44	0.02	0.166
2010	IN	BB	EU04	22.52	24.21	1.845	21.579
2010	IN	BB	NM01	22.52	24.7	2.5	50
2010	IN	BB	EU05	22.52	27.52	0.275	3.221
2010	IN	BB	NM02	22.52	30.81	2.5	50
2010	IN	BD	EU01	22.62	22.52	1.56	10.778
2010	IN	BD	ES02	22.62	23.05	0.05	0.378
2010	IN	BD	EU03	22.62	24.21	0.018	0.121
2010	IN	BD	ES04	22.62	24.79	0	0.157
2010	IN	BD	ES05	22.62	25.3	0.01	0.064
2010	IN	BD	EU06	22.62	25.34	0.026	0.182
2010	IN	BD	NM01	22.62	26.9	0.5	10
2010	IN	BD	NM02	22.62	29.26	0.5	10
2010	IN	BD	NM03	22.62	31.63	0.5	10
2010	IN	BD	NM04	22.62	34	0.5	10
2010	IN	BE	EU01	23.43	22.55	2.231	13.57
2010	IN	BE	ES02	23.43	23.05	0.383	0.591
2010	IN	BE	ES03	23.43	23.52	0.071	0.11
2010	IN	BE	ES04	23.43	24.76	0.01	0.015
2010	IN	BE	ES05	23.43	24.79	0.084	0.13
2010	IN	BE	NM01	23.43	25.1	0.75	15
2010	IN	BE	ES06	23.43	25.26	0.173	0.267
2010	IN	BE	EU07	23.43	25.34	2.125	12.928
2010	IN	BE	NM02	23.43	27.84	0.75	15
2010	IN	BE	NM03	23.43	30.59	0.75	15
2010	IN	BG	ES01	23.37	20.7	0.004	0.009
2010	IN	BG	EU02	23.37	21.26	0.028	0.278
2010	IN	BG	NM01	23.37	22.32	1.5	45
2010	IN	BG	ES03	23.37	23.05	0.156	0.341
2010	IN	BG	NM02	23.37	23.16	1.5	45
2010	IN	BG	ES04	23.37	23.24	0.004	0.009
2010	IN	BG	ES05	23.37	23.52	0.274	0.596
2010	IN	BG	NM03	23.37	24.01	1.5	45
2010	IN	BG	ES06	23.37	24.76	0.207	0.451
2010	IN	BG	NM04	23.37	24.87	1.5	45
2010	IN	BG	ES07	23.37	25.3	0.016	0.034
2010	IN	BG	EU08	23.37	25.34	0.986	9.724
2010	IN	BG	NM05	23.37	25.72	1.5	45
2010	IN	BG	NM06	23.37	26.58	1.5	45
2010	IN	BG	ES09	23.37	26.73	0.141	0.306
2010	IN	BG	NM07	23.37	27.42	1.5	45
2010	IN	BG	NM08	23.37	28.28	1.5	45
2010	IN	BG	NM09	23.37	29.13	1.5	45
2010	IN	BH	ES01	23.41	20.7	0.004	0.01
2010	IN	BH	EU02	23.41	21.26	0.012	0.469
2010	IN	BH	NM01	23.41	22.32	1.5	60
2010	IN	BH	NM02	23.41	22.46	1.5	60
2010	IN	BH	ES03	23.41	22.61	0.306	0.778
2010	IN	BH	NM03	23.41	22.61	1.5	60
2010	IN	BH	NM04	23.41	22.76	1.5	60
2010	IN	BH	ES04	23.41	22.85	1.87	4.758
2010	IN	BH	NM05	23.41	22.91	1.5	60
2010	IN	BH	NM06	23.41	23.06	1.5	60
2010	IN	BH	NM07	23.41	23.21	1.5	60
2010	IN	BH	ES05	23.41	23.24	0.45	1.146
2010	IN	BH	ES06	23.41	23.3	0.205	0.522
2010	IN	BH	NM08	23.41	23.35	1.5	60
2010	IN	BH	NM09	23.41	23.51	1.5	60
2010	IN	BH	ES07	23.41	23.52	0.036	0.092
2010	IN	BH	NM10	23.41	23.66	1.5	60
2010	IN	BH	NM11	23.41	23.81	1.5	60
2010	IN	BH	ES08	23.41	23.94	0.048	0.123
2010	IN	BH	NM12	23.41	23.96	1.5	60
2010	IN	BH	NM13	23.41	24.1	1.5	60
2010	IN	BH	NM14	23.41	24.26	1.5	60
2010	IN	BH	NM15	23.41	24.4	1.5	60
2010	IN	BH	NM16	23.41	24.56	1.5	60
2010	IN	BH	NM17	23.41	24.7	1.5	60
2010	IN	BH	ES09	23.41	24.76	0.092	0.235
2010	IN	BH	ES10	23.41	24.81	0.189	0.481
2010	IN	BH	NM18	23.41	24.85	1.5	60
2010	IN	BH	NM19	23.41	25	1.5	60
2010	IN	BH	NM20	23.41	25.15	1.5	60

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	IN	BH	ES11	23.41	25.26	1.335	3.397
2010	IN	BH	NM21	23.41	25.3	1.5	60
2010	IN	BH	EU12	23.41	25.34	1.404	54.425
2010	IN	BH	NM22	23.41	25.45	1.5	60
2010	IN	BH	NM23	23.41	25.59	1.5	60
2010	IN	BH	NM24	23.41	25.75	1.5	60
2010	IN	BH	NM25	23.41	25.9	1.5	60
2010	IN	BH	ES13	23.41	25.95	0.289	0.737
2010	IN	BH	NM26	23.41	26.05	1.5	60
2010	IN	BH	NM27	23.41	26.2	1.5	60
2010	IN	BH	NM28	23.41	26.34	1.5	60
2010	IN	BH	NM29	23.41	26.5	1.5	60
2010	IN	BH	NM30	23.41	26.64	1.5	60
2010	IN	BH	ES14	23.41	26.73	0.257	0.655
2010	IN	BH	NM31	23.41	26.8	1.5	60
2010	IN	BH	NM32	23.41	26.94	1.5	60
2010	IN	BH	ES15	23.41	28.09	0.044	0.113
2015	IN	BB	EU01	22.52	22.07	0.496	5.797
2015	IN	BB	ES02	22.52	22.6	0	0.047
2015	IN	BB	ES03	22.52	22.98	0	0.166
2015	IN	BB	EU04	22.52	23.73	1.845	21.579
2015	IN	BB	NM01	22.52	24.21	2.5	50
2015	IN	BB	EU05	22.52	26.98	0.275	3.221
2015	IN	BB	NM02	22.52	30.2	2.5	50
2015	IN	BD	EU01	22.62	22.07	1.56	10.778
2015	IN	BD	ES02	22.62	22.6	0	0.378
2015	IN	BD	EU03	22.62	23.73	0.018	0.121
2015	IN	BD	ES04	22.62	24.29	0	0.157
2015	IN	BD	ES05	22.62	24.8	0	0.064
2015	IN	BD	EU06	22.62	24.84	0.026	0.182
2015	IN	BD	NM01	22.62	26.36	0.5	10
2015	IN	BD	NM02	22.62	28.68	0.5	10
2015	IN	BD	NM03	22.62	31	0.5	10
2015	IN	BD	NM04	22.62	33.32	0.5	10
2015	IN	BE	EU01	23.43	22.11	2.231	13.57
2015	IN	BE	ES02	23.43	22.6	0.383	0.591
2015	IN	BE	ES03	23.43	23.06	0.071	0.11
2015	IN	BE	ES04	23.43	24.27	0.01	0.015
2015	IN	BE	ES05	23.43	24.29	0.084	0.13
2015	IN	BE	NM01	23.43	24.6	0.75	15
2015	IN	BE	ES06	23.43	24.77	0.173	0.267
2015	IN	BE	EU07	23.43	24.84	2.125	12.928
2015	IN	BE	NM02	23.43	27.29	0.75	15
2015	IN	BE	NM03	23.43	29.99	0.75	15
2015	IN	BG	ES01	23.37	20.29	0.004	0.009
2015	IN	BG	EU02	23.37	20.83	0.028	0.278
2015	IN	BG	NM01	23.37	21.87	1.5	45
2015	IN	BG	ES03	23.37	22.6	0.156	0.341
2015	IN	BG	NM02	23.37	22.71	1.5	45
2015	IN	BG	ES04	23.37	22.79	0.004	0.009
2015	IN	BG	ES05	23.37	23.06	0.274	0.596
2015	IN	BG	NM03	23.37	23.54	1.5	45
2015	IN	BG	ES06	23.37	24.27	0.207	0.451
2015	IN	BG	NM04	23.37	24.38	1.5	45
2015	IN	BG	ES07	23.37	24.8	0.016	0.034
2015	IN	BG	EU08	23.37	24.84	0.986	9.724
2015	IN	BG	NM05	23.37	25.2	1.5	45
2015	IN	BG	NM06	23.37	26.05	1.5	45
2015	IN	BG	ES09	23.37	26.2	0.141	0.306
2015	IN	BG	NM07	23.37	26.88	1.5	45
2015	IN	BG	NM08	23.37	27.71	1.5	45
2015	IN	BG	NM09	23.37	28.55	1.5	45
2015	IN	BH	ES01	23.41	20.29	0.004	0.01
2015	IN	BH	EU02	23.41	20.83	0.012	0.469
2015	IN	BH	NM01	23.41	21.87	1.5	60
2015	IN	BH	NM02	23.41	22.02	1.5	60
2015	IN	BH	ES03	23.41	22.16	0.306	0.778
2015	IN	BH	NM03	23.41	22.16	1.5	60
2015	IN	BH	NM04	23.41	22.31	1.5	60
2015	IN	BH	ES04	23.41	22.4	1.87	4.758
2015	IN	BH	NM05	23.41	22.45	1.5	60
2015	IN	BH	NM06	23.41	22.6	1.5	60
2015	IN	BH	NM07	23.41	22.75	1.5	60
2015	IN	BH	ES05	23.41	22.79	0.45	1.146
2015	IN	BH	ES06	23.41	22.84	0.205	0.522
2015	IN	BH	NM08	23.41	22.9	1.5	60
2015	IN	BH	NM09	23.41	23.04	1.5	60

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	IN	BH	ES07	23.41	23.06	0.036	0.092
2015	IN	BH	NM10	23.41	23.19	1.5	60
2015	IN	BH	NM11	23.41	23.33	1.5	60
2015	IN	BH	ES08	23.41	23.47	0.048	0.123
2015	IN	BH	NM12	23.41	23.48	1.5	60
2015	IN	BH	NM13	23.41	23.62	1.5	60
2015	IN	BH	NM14	23.41	23.78	1.5	60
2015	IN	BH	NM15	23.41	23.92	1.5	60
2015	IN	BH	NM16	23.41	24.07	1.5	60
2015	IN	BH	NM17	23.41	24.21	1.5	60
2015	IN	BH	ES09	23.41	24.27	0.092	0.235
2015	IN	BH	ES10	23.41	24.31	0.189	0.481
2015	IN	BH	NM18	23.41	24.36	1.5	60
2015	IN	BH	NM19	23.41	24.5	1.5	60
2015	IN	BH	NM20	23.41	24.65	1.5	60
2015	IN	BH	ES11	23.41	24.77	1.335	3.397
2015	IN	BH	NM21	23.41	24.8	1.5	60
2015	IN	BH	EU12	23.41	24.84	1.404	54.425
2015	IN	BH	NM22	23.41	24.95	1.5	60
2015	IN	BH	NM23	23.41	25.09	1.5	60
2015	IN	BH	NM24	23.41	25.24	1.5	60
2015	IN	BH	NM25	23.41	25.38	1.5	60
2015	IN	BH	ES13	23.41	25.44	0.289	0.737
2015	IN	BH	NM26	23.41	25.53	1.5	60
2015	IN	BH	NM27	23.41	25.67	1.5	60
2015	IN	BH	NM28	23.41	25.83	1.5	60
2015	IN	BH	NM29	23.41	25.97	1.5	60
2015	IN	BH	NM30	23.41	26.12	1.5	60
2015	IN	BH	ES14	23.41	26.2	0.257	0.655
2015	IN	BH	NM31	23.41	26.26	1.5	60
2015	IN	BH	NM32	23.41	26.41	1.5	60
2015	IN	BH	ES15	23.41	27.53	0.044	0.113
2020	IN	BB	EU01	22.52	21.63	0.496	5.797
2020	IN	BB	ES02	22.52	22.15	0	0.047
2020	IN	BB	ES03	22.52	22.52	0	0.166
2020	IN	BB	EU04	22.52	23.25	1.845	21.579
2020	IN	BB	NM01	22.52	23.73	2.5	50
2020	IN	BB	EU05	22.52	26.44	0.275	3.221
2020	IN	BB	NM02	22.52	29.6	2.5	50
2020	IN	BD	EU01	22.62	21.63	1.56	10.778
2020	IN	BD	ES02	22.62	22.15	0	0.378
2020	IN	BD	EU03	22.62	23.25	0.018	0.121
2020	IN	BD	ES04	22.62	23.81	0	0.157
2020	IN	BD	ES05	22.62	24.31	0	0.064
2020	IN	BD	EU06	22.62	24.35	0.026	0.182
2020	IN	BD	NM01	22.62	25.84	0.5	10
2020	IN	BD	NM02	22.62	28.11	0.5	10
2020	IN	BD	NM03	22.62	30.39	0.5	10
2020	IN	BD	NM04	22.62	32.66	0.5	10
2020	IN	BE	EU01	23.43	21.66	2.231	13.57
2020	IN	BE	ES02	23.43	22.15	0.383	0.591
2020	IN	BE	ES03	23.43	22.6	0.071	0.11
2020	IN	BE	ES04	23.43	23.79	0.01	0.015
2020	IN	BE	ES05	23.43	23.81	0.084	0.13
2020	IN	BE	NM01	23.43	24.11	0.75	15
2020	IN	BE	ES06	23.43	24.27	0.173	0.267
2020	IN	BE	EU07	23.43	24.35	2.125	12.928
2020	IN	BE	NM02	23.43	26.74	0.75	15
2020	IN	BE	NM03	23.43	29.38	0.75	15
2020	IN	BG	ES01	23.37	19.89	0.004	0.009
2020	IN	BG	EU02	23.37	20.42	0.028	0.278
2020	IN	BG	NM01	23.37	21.44	1.5	45
2020	IN	BG	ES03	23.37	22.15	0.156	0.341
2020	IN	BG	NM02	23.37	22.26	1.5	45
2020	IN	BG	ES04	23.37	22.33	0.004	0.009
2020	IN	BG	ES05	23.37	22.6	0.274	0.596
2020	IN	BG	NM03	23.37	23.08	1.5	45
2020	IN	BG	ES06	23.37	23.79	0.207	0.451
2020	IN	BG	NM04	23.37	23.89	1.5	45
2020	IN	BG	ES07	23.37	24.31	0.016	0.034
2020	IN	BG	EU08	23.37	24.35	0.986	9.724
2020	IN	BG	NM05	23.37	24.7	1.5	45
2020	IN	BG	NM06	23.37	25.53	1.5	45
2020	IN	BG	ES09	23.37	25.68	0.141	0.306
2020	IN	BG	NM07	23.37	26.34	1.5	45
2020	IN	BG	NM08	23.37	27.17	1.5	45
2020	IN	BG	NM09	23.37	27.98	1.5	45

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	IN	BH	ES01	23.41	19.89	0.004	0.01
2020	IN	BH	EU02	23.41	20.42	0.012	0.469
2020	IN	BH	NM01	23.41	21.44	1.5	60
2020	IN	BH	NM02	23.41	21.58	1.5	60
2020	IN	BH	ES03	23.41	21.72	0.306	0.778
2020	IN	BH	NM03	23.41	21.73	1.5	60
2020	IN	BH	NM04	23.41	21.87	1.5	60
2020	IN	BH	ES04	23.41	21.95	1.87	4.758
2020	IN	BH	NM05	23.41	22.01	1.5	60
2020	IN	BH	NM06	23.41	22.15	1.5	60
2020	IN	BH	NM07	23.41	22.3	1.5	60
2020	IN	BH	ES05	23.41	22.33	0.45	1.146
2020	IN	BH	ES06	23.41	22.38	0.205	0.522
2020	IN	BH	NM08	23.41	22.44	1.5	60
2020	IN	BH	NM09	23.41	22.58	1.5	60
2020	IN	BH	ES07	23.41	22.6	0.036	0.092
2020	IN	BH	NM10	23.41	22.73	1.5	60
2020	IN	BH	NM11	23.41	22.87	1.5	60
2020	IN	BH	ES08	23.41	23.01	0.048	0.123
2020	IN	BH	NM12	23.41	23.02	1.5	60
2020	IN	BH	NM13	23.41	23.15	1.5	60
2020	IN	BH	NM14	23.41	23.3	1.5	60
2020	IN	BH	NM15	23.41	23.44	1.5	60
2020	IN	BH	NM16	23.41	23.59	1.5	60
2020	IN	BH	NM17	23.41	23.73	1.5	60
2020	IN	BH	ES09	23.41	23.79	0.092	0.235
2020	IN	BH	ES10	23.41	23.83	0.189	0.481
2020	IN	BH	NM18	23.41	23.88	1.5	60
2020	IN	BH	NM19	23.41	24.02	1.5	60
2020	IN	BH	NM20	23.41	24.17	1.5	60
2020	IN	BH	ES11	23.41	24.27	1.335	3.397
2020	IN	BH	NM21	23.41	24.3	1.5	60
2020	IN	BH	EU12	23.41	24.35	1.404	54.425
2020	IN	BH	NM22	23.41	24.45	1.5	60
2020	IN	BH	NM23	23.41	24.59	1.5	60
2020	IN	BH	NM24	23.41	24.74	1.5	60
2020	IN	BH	NM25	23.41	24.88	1.5	60
2020	IN	BH	ES13	23.41	24.94	0.289	0.737
2020	IN	BH	NM26	23.41	25.03	1.5	60
2020	IN	BH	NM27	23.41	25.17	1.5	60
2020	IN	BH	NM28	23.41	25.32	1.5	60
2020	IN	BH	NM29	23.41	25.45	1.5	60
2020	IN	BH	NM30	23.41	25.59	1.5	60
2020	IN	BH	ES14	23.41	25.68	0.257	0.655
2020	IN	BH	NM31	23.41	25.74	1.5	60
2020	IN	BH	NM32	23.41	25.88	1.5	60
2020	IN	BH	ES15	23.41	26.99	0.044	0.113
2025	IN	BB	EU01	22.52	21.2	0.496	5.797
2025	IN	BB	ES02	22.52	21.72	0	0.047
2025	IN	BB	ES03	22.52	22.07	0	0.166
2025	IN	BB	EU04	22.52	22.8	1.845	21.579
2025	IN	BB	NM01	22.52	23.26	2.5	50
2025	IN	BB	EU05	22.52	25.92	0.275	3.221
2025	IN	BB	NM02	22.52	29.01	2.5	50
2025	IN	BD	EU01	22.62	21.2	1.56	10.778
2025	IN	BD	ES02	22.62	21.72	0	0.378
2025	IN	BD	EU03	22.62	22.8	0.018	0.121
2025	IN	BD	ES04	22.62	23.34	0	0.157
2025	IN	BD	ES05	22.62	23.82	0	0.064
2025	IN	BD	EU06	22.62	23.86	0.026	0.182
2025	IN	BD	NM01	22.62	25.33	0.5	10
2025	IN	BD	NM02	22.62	27.56	0.5	10
2025	IN	BD	NM03	22.62	29.78	0.5	10
2025	IN	BD	NM04	22.62	32.02	0.5	10
2025	IN	BE	EU01	23.43	21.24	2.231	13.57
2025	IN	BE	ES02	23.43	21.72	0.383	0.591
2025	IN	BE	ES03	23.43	22.15	0.071	0.11
2025	IN	BE	ES04	23.43	23.32	0.01	0.015
2025	IN	BE	ES05	23.43	23.34	0.084	0.13
2025	IN	BE	NM01	23.43	23.63	0.75	15
2025	IN	BE	ES06	23.43	23.79	0.173	0.267
2025	IN	BE	EU07	23.43	23.86	2.125	12.928
2025	IN	BE	NM02	23.43	26.22	0.75	15
2025	IN	BE	NM03	23.43	28.81	0.75	15
2025	IN	BG	ES01	23.37	19.5	0.004	0.009
2025	IN	BG	EU02	23.37	20.02	0.028	0.278
2025	IN	BG	NM01	23.37	21.01	1.5	45

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	IN	BG	ES03	23.37	21.72	0.156	0.341
2025	IN	BG	NM02	23.37	21.82	1.5	45
2025	IN	BG	ES04	23.37	21.89	0.004	0.009
2025	IN	BG	ES05	23.37	22.15	0.274	0.596
2025	IN	BG	NM03	23.37	22.62	1.5	45
2025	IN	BG	ES06	23.37	23.32	0.207	0.451
2025	IN	BG	NM04	23.37	23.42	1.5	45
2025	IN	BG	ES07	23.37	23.82	0.016	0.034
2025	IN	BG	EU08	23.37	23.86	0.986	9.724
2025	IN	BG	NM05	23.37	24.21	1.5	45
2025	IN	BG	NM06	23.37	25.03	1.5	45
2025	IN	BG	ES09	23.37	25.17	0.141	0.306
2025	IN	BG	NM07	23.37	25.82	1.5	45
2025	IN	BG	NM08	23.37	26.63	1.5	45
2025	IN	BG	NM09	23.37	27.42	1.5	45
2025	IN	BH	ES01	23.41	19.5	0.004	0.01
2025	IN	BH	EU02	23.41	20.02	0.012	0.469
2025	IN	BH	NM01	23.41	21.01	1.5	60
2025	IN	BH	NM02	23.41	21.15	1.5	60
2025	IN	BH	ES03	23.41	21.29	0.306	0.778
2025	IN	BH	NM03	23.41	21.29	1.5	60
2025	IN	BH	NM04	23.41	21.44	1.5	60
2025	IN	BH	ES04	23.41	21.51	1.87	4.758
2025	IN	BH	NM05	23.41	21.57	1.5	60
2025	IN	BH	NM06	23.41	21.72	1.5	60
2025	IN	BH	NM07	23.41	21.85	1.5	60
2025	IN	BH	ES05	23.41	21.89	0.45	1.146
2025	IN	BH	ES06	23.41	21.94	0.205	0.522
2025	IN	BH	NM08	23.41	21.99	1.5	60
2025	IN	BH	NM09	23.41	22.14	1.5	60
2025	IN	BH	ES07	23.41	22.15	0.036	0.092
2025	IN	BH	NM10	23.41	22.27	1.5	60
2025	IN	BH	NM11	23.41	22.42	1.5	60
2025	IN	BH	ES08	23.41	22.55	0.048	0.123
2025	IN	BH	NM12	23.41	22.56	1.5	60
2025	IN	BH	NM13	23.41	22.7	1.5	60
2025	IN	BH	NM14	23.41	22.84	1.5	60
2025	IN	BH	NM15	23.41	22.98	1.5	60
2025	IN	BH	NM16	23.41	23.12	1.5	60
2025	IN	BH	NM17	23.41	23.26	1.5	60
2025	IN	BH	ES09	23.41	23.32	0.092	0.235
2025	IN	BH	ES10	23.41	23.37	0.189	0.481
2025	IN	BH	NM18	23.41	23.4	1.5	60
2025	IN	BH	NM19	23.41	23.54	1.5	60
2025	IN	BH	NM20	23.41	23.69	1.5	60
2025	IN	BH	ES11	23.41	23.79	1.335	3.397
2025	IN	BH	NM21	23.41	23.82	1.5	60
2025	IN	BH	EU12	23.41	23.86	1.404	54.425
2025	IN	BH	NM22	23.41	23.97	1.5	60
2025	IN	BH	NM23	23.41	24.1	1.5	60
2025	IN	BH	NM24	23.41	24.25	1.5	60
2025	IN	BH	NM25	23.41	24.39	1.5	60
2025	IN	BH	ES13	23.41	24.44	0.289	0.737
2025	IN	BH	NM26	23.41	24.52	1.5	60
2025	IN	BH	NM27	23.41	24.67	1.5	60
2025	IN	BH	NM28	23.41	24.8	1.5	60
2025	IN	BH	NM29	23.41	24.95	1.5	60
2025	IN	BH	NM30	23.41	25.09	1.5	60
2025	IN	BH	ES14	23.41	25.17	0.257	0.655
2025	IN	BH	NM31	23.41	25.23	1.5	60
2025	IN	BH	NM32	23.41	25.37	1.5	60
2025	IN	BH	ES15	23.41	26.45	0.044	0.113
2035	IN	BB	EU01	22.52	20.78	0.496	5.797
2035	IN	BB	ES02	22.52	21.28	0	0.047
2035	IN	BB	ES03	22.52	21.64	0	0.166
2035	IN	BB	EU04	22.52	22.34	1.845	21.579
2035	IN	BB	NM01	22.52	22.8	2.5	50
2035	IN	BB	EU05	22.52	25.41	0.275	3.221
2035	IN	BB	NM02	22.52	28.44	2.5	50
2035	IN	BD	EU01	22.62	20.78	1.56	10.778
2035	IN	BD	ES02	22.62	21.28	0	0.378
2035	IN	BD	EU03	22.62	22.34	0.018	0.121
2035	IN	BD	ES04	22.62	22.87	0	0.157
2035	IN	BD	ES05	22.62	23.35	0	0.064
2035	IN	BD	EU06	22.62	23.39	0.026	0.182
2035	IN	BD	NM01	22.62	24.83	0.5	10
2035	IN	BD	NM02	22.62	27.01	0.5	10

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	IN	BD	NM03	22.62	29.18	0.5	10
2035	IN	BD	NM04	22.62	31.38	0.5	10
2035	IN	BE	EU01	23.43	20.81	2.231	13.57
2035	IN	BE	ES02	23.43	21.28	0.383	0.591
2035	IN	BE	ES03	23.43	21.72	0.071	0.11
2035	IN	BE	ES04	23.43	22.85	0.01	0.015
2035	IN	BE	ES05	23.43	22.87	0.084	0.13
2035	IN	BE	NM01	23.43	23.16	0.75	15
2035	IN	BE	ES06	23.43	23.32	0.173	0.267
2035	IN	BE	EU07	23.43	23.39	2.125	12.928
2035	IN	BE	NM02	23.43	25.7	0.75	15
2035	IN	BE	NM03	23.43	28.24	0.75	15
2035	IN	BG	ES01	23.37	19.11	0.004	0.009
2035	IN	BG	EU02	23.37	19.62	0.028	0.278
2035	IN	BG	NM01	23.37	20.59	1.5	45
2035	IN	BG	ES03	23.37	21.28	0.156	0.341
2035	IN	BG	NM02	23.37	21.38	1.5	45
2035	IN	BG	ES04	23.37	21.46	0.004	0.009
2035	IN	BG	ES05	23.37	21.72	0.274	0.596
2035	IN	BG	NM03	23.37	22.16	1.5	45
2035	IN	BG	ES06	23.37	22.85	0.207	0.451
2035	IN	BG	NM04	23.37	22.95	1.5	45
2035	IN	BG	ES07	23.37	23.35	0.016	0.034
2035	IN	BG	EU08	23.37	23.39	0.986	9.724
2035	IN	BG	NM05	23.37	23.73	1.5	45
2035	IN	BG	NM06	23.37	24.52	1.5	45
2035	IN	BG	ES09	23.37	24.67	0.141	0.306
2035	IN	BG	NM07	23.37	25.3	1.5	45
2035	IN	BG	NM08	23.37	26.1	1.5	45
2035	IN	BG	NM09	23.37	26.88	1.5	45
2035	IN	BH	ES01	23.41	19.11	0.004	0.01
2035	IN	BH	EU02	23.41	19.62	0.012	0.469
2035	IN	BH	NM01	23.41	20.59	1.5	60
2035	IN	BH	NM02	23.41	20.73	1.5	60
2035	IN	BH	ES03	23.41	20.87	0.306	0.778
2035	IN	BH	NM03	23.41	20.87	1.5	60
2035	IN	BH	NM04	23.41	21	1.5	60
2035	IN	BH	ES04	23.41	21.09	1.87	4.758
2035	IN	BH	NM05	23.41	21.15	1.5	60
2035	IN	BH	NM06	23.41	21.28	1.5	60
2035	IN	BH	NM07	23.41	21.43	1.5	60
2035	IN	BH	ES05	23.41	21.46	0.45	1.146
2035	IN	BH	ES06	23.41	21.5	0.205	0.522
2035	IN	BH	NM08	23.41	21.56	1.5	60
2035	IN	BH	NM09	23.41	21.69	1.5	60
2035	IN	BH	ES07	23.41	21.72	0.036	0.092
2035	IN	BH	NM10	23.41	21.84	1.5	60
2035	IN	BH	NM11	23.41	21.97	1.5	60
2035	IN	BH	ES08	23.41	22.09	0.048	0.123
2035	IN	BH	NM12	23.41	22.11	1.5	60
2035	IN	BH	NM13	23.41	22.25	1.5	60
2035	IN	BH	NM14	23.41	22.38	1.5	60
2035	IN	BH	NM15	23.41	22.53	1.5	60
2035	IN	BH	NM16	23.41	22.66	1.5	60
2035	IN	BH	NM17	23.41	22.8	1.5	60
2035	IN	BH	ES09	23.41	22.85	0.092	0.235
2035	IN	BH	ES10	23.41	22.9	0.189	0.481
2035	IN	BH	NM18	23.41	22.94	1.5	60
2035	IN	BH	NM19	23.41	23.08	1.5	60
2035	IN	BH	NM20	23.41	23.21	1.5	60
2035	IN	BH	ES11	23.41	23.32	1.335	3.397
2035	IN	BH	NM21	23.41	23.35	1.5	60
2035	IN	BH	EU12	23.41	23.39	1.404	54.425
2035	IN	BH	NM22	23.41	23.49	1.5	60
2035	IN	BH	NM23	23.41	23.62	1.5	60
2035	IN	BH	NM24	23.41	23.77	1.5	60
2035	IN	BH	NM25	23.41	23.9	1.5	60
2035	IN	BH	ES13	23.41	23.96	0.289	0.737
2035	IN	BH	NM26	23.41	24.05	1.5	60
2035	IN	BH	NM27	23.41	24.18	1.5	60
2035	IN	BH	NM28	23.41	24.31	1.5	60
2035	IN	BH	NM29	23.41	24.46	1.5	60
2035	IN	BH	NM30	23.41	24.59	1.5	60
2035	IN	BH	ES14	23.41	24.67	0.257	0.655
2035	IN	BH	NM31	23.41	24.73	1.5	60
2035	IN	BH	NM32	23.41	24.87	1.5	60
2035	IN	BH	ES15	23.41	25.93	0.044	0.113

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	KE	BA	NM01	25.32	26.89	1	30
2007	KE	BA	NM02	25.32	31.42	1	30
2007	KE	BA	ES01	25.32	32.41	0.133	0.918
2007	KE	BA	EU02	25.32	32.54	0.687	5.772
2007	KE	BA	NM03	25.32	35.96	1	30
2007	KE	BA	NM04	25.32	40.5	1	30
2007	KE	BB	NM01	25.79	30.48	1	24
2007	KE	BB	NM02	25.79	31.1	1	24
2007	KE	BB	NM03	25.79	31.75	1	24
2007	KE	BB	NM04	25.79	32.37	1	24
2007	KE	BB	ES01	25.79	32.41	7.475	87.579
2007	KE	BB	EU01	25.79	32.54	11.657	111.273
2007	KE	BB	NM05	25.79	33.02	1	24
2007	KE	BB	NM06	25.79	33.64	1	24
2007	KE	BB	NM07	25.79	34.29	1	24
2007	KE	BB	NM08	25.79	34.91	1	24
2007	KE	BB	NM09	25.79	35.56	1	24
2007	KE	BB	NM10	25.79	36.2	1	24
2007	KE	BB	NM11	25.79	36.82	1	24
2007	KE	BB	NM12	25.79	37.46	1	24
2007	KE	BB	NM13	25.79	38.09	1	24
2007	KE	BB	NM14	25.79	38.73	1	24
2007	KE	BB	NM15	25.79	39.37	1	24
2007	KE	BB	NM16	25.79	40	1	24
2007	KE	BB	NM17	25.79	40.64	1	24
2007	KE	BB	NM18	25.79	41.27	1	24
2007	KE	BB	NM19	25.79	41.91	1	24
2007	KE	BB	NM20	25.79	42.54	1	24
2007	KE	BB	NM21	25.79	43.19	1	24
2007	KE	BB	NM22	25.79	43.81	1	24
2007	KE	BB	NM23	25.79	44.46	1	24
2007	KE	BB	NM24	25.79	45.08	1	24
2007	KE	BB	NM25	25.79	45.73	1	24
2007	KE	BB	NM26	25.79	46.35	1	24
2007	KE	BB	NM27	25.79	47	1	24
2007	KE	BB	NM28	25.79	47.62	1	24
2007	KE	BB	NM29	25.79	48.27	1	24
2007	KE	BB	NM30	25.79	48.89	1	24
2007	KE	BB	NM31	25.79	49.54	1	24
2007	KE	BB	NM32	25.79	50.16	1	24
2007	KE	BD	NM01	25.33	29.34	2.5	60
2007	KE	BD	NM02	25.33	29.88	2.5	60
2007	KE	BD	NM03	25.33	30.4	2.5	60
2007	KE	BD	NM04	25.33	30.93	2.5	60
2007	KE	BD	NM05	25.33	31.46	2.5	60
2007	KE	BD	NM06	25.33	31.98	2.5	60
2007	KE	BD	ES01	25.33	32.41	19.732	173.356
2007	KE	BD	NM07	25.33	32.52	2.5	60
2007	KE	BD	EU01	25.33	32.54	19.12	222.669
2007	KE	BD	NM08	25.33	33.04	2.5	60
2007	KE	BD	NM09	25.33	33.57	2.5	60
2007	KE	BD	NM10	25.33	34.1	2.5	60
2007	KE	BD	NM11	25.33	34.62	2.5	60
2007	KE	BD	NM12	25.33	35.16	2.5	60
2007	KE	BD	NM13	25.33	35.68	2.5	60
2007	KE	BD	NM14	25.33	36.22	2.5	60
2007	KE	BD	NM15	25.33	36.74	2.5	60
2007	KE	BD	NM16	25.33	37.28	2.5	60
2007	KE	BD	NM17	25.33	37.8	2.5	60
2007	KE	BD	NM18	25.33	38.34	2.5	60
2007	KE	BD	NM19	25.33	38.86	2.5	60
2007	KE	BD	NM20	25.33	39.4	2.5	60
2007	KE	BD	NM21	25.33	39.92	2.5	60
2007	KE	BD	NM22	25.33	40.45	2.5	60
2007	KE	BD	NM23	25.33	40.98	2.5	60
2007	KE	BD	NM24	25.33	41.51	2.5	60
2007	KE	BD	NM25	25.33	42.04	2.5	60
2007	KE	BD	NM26	25.33	42.57	2.5	60
2007	KE	BD	NM27	25.33	43.1	2.5	60
2007	KE	BD	NM28	25.33	43.63	2.5	60
2007	KE	BD	NM29	25.33	44.16	2.5	60
2007	KE	BD	NM30	25.33	44.69	2.5	60
2007	KE	BD	NM31	25.33	45.21	2.5	60
2007	KE	BD	NM32	25.33	45.75	2.5	60
2007	KE	BD	NM33	25.33	46.27	2.5	60
2007	KE	BD	NM34	25.33	46.81	2.5	60
2007	KE	BD	NM35	25.33	47.33	2.5	60

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	KE	BD	NM36	25.33	47.87	2.5	60
2007	KE	BD	NM37	25.33	48.39	2.5	60
2007	KE	BE	NM01	25.14	31.7	1.75	42
2007	KE	BE	NM02	25.14	32.15	1.75	42
2007	KE	BE	ES01	25.14	32.41	12.786	109.589
2007	KE	BE	EU01	25.14	32.54	13.107	151.217
2007	KE	BE	NM03	25.14	32.58	1.75	42
2007	KE	BE	NM04	25.14	33.03	1.75	42
2007	KE	BE	NM05	25.14	33.46	1.75	42
2007	KE	BE	NM06	25.14	33.91	1.75	42
2007	KE	BE	NM07	25.14	34.35	1.75	42
2007	KE	BE	NM08	25.14	34.79	1.75	42
2007	KE	BE	NM09	25.14	35.24	1.75	42
2007	KE	BE	NM10	25.14	35.67	1.75	42
2007	KE	BE	NM11	25.14	36.12	1.75	42
2007	KE	BE	NM12	25.14	36.55	1.75	42
2007	KE	BE	NM13	25.14	37	1.75	42
2007	KE	BE	NM14	25.14	37.43	1.75	42
2007	KE	BE	NM15	25.14	37.88	1.75	42
2007	KE	BE	NM16	25.14	38.33	1.75	42
2007	KE	BE	NM17	25.14	38.76	1.75	42
2007	KE	BE	NM18	25.14	39.21	1.75	42
2007	KE	BE	NM19	25.14	39.64	1.75	42
2007	KE	BE	NM20	25.14	40.09	1.75	42
2007	KE	BE	NM21	25.14	40.52	1.75	42
2007	KE	BE	NM22	25.14	40.97	1.75	42
2007	KE	BE	NM23	25.14	41.4	1.75	42
2007	KE	BE	NM24	25.14	41.85	1.75	42
2007	KE	BE	NM25	25.14	42.29	1.75	42
2007	KE	BE	NM26	25.14	42.73	1.75	42
2007	KE	BE	NM27	25.14	43.17	1.75	42
2007	KE	BE	NM28	25.14	43.61	1.75	42
2007	KE	BE	NM29	25.14	44.06	1.75	42
2007	KE	BE	NM30	25.14	44.49	1.75	42
2007	KE	BE	NM31	25.14	44.94	1.75	42
2007	KE	BE	NM32	25.14	45.38	1.75	42
2007	KE	BE	NM33	25.14	45.82	1.75	42
2007	KE	BE	NM34	25.14	46.26	1.75	42
2007	KE	BE	NM35	25.14	46.7	1.75	42
2007	KE	BE	NM36	25.14	47.14	1.75	42
2007	KE	BE	NM37	25.14	47.58	1.75	42
2007	KE	BE	NM38	25.14	48.02	1.75	42
2007	KE	BE	NM39	25.14	48.47	1.75	42
2007	KE	BE	NM40	25.14	48.9	1.75	42
2007	KE	BE	NM41	25.14	49.35	1.75	42
2007	KE	BE	NM42	25.14	49.79	1.75	42
2007	KE	BE	NM43	25.14	50.23	1.75	42
2007	KE	BE	NM44	25.14	50.67	1.75	42
2007	KE	BE	NM45	25.14	51.11	1.75	42
2007	KE	BE	NM46	25.14	51.55	1.75	42
2007	KE	BE	NM47	25.14	51.99	1.75	42
2007	KE	BE	NM48	25.14	52.29	0.63	15.2
2007	KE	BG	NM01	24.09	28.83	0.25	6
2007	KE	BG	ES01	24.09	32.41	1.443	9.369
2007	KE	BG	EU02	24.09	32.54	2.262	24.63
2007	KE	BG	NM02	24.09	32.54	0.25	6
2007	KE	BG	NM03	24.09	36.26	0.25	6
2007	KE	BG	NM04	24.09	39.98	0.25	6
2007	KE	BG	NM05	24.09	43.69	0.25	6
2008	KE	BA	NM01	25.32	26.78	1	30
2008	KE	BA	NM02	25.32	31.3	1	30
2008	KE	BA	ES01	25.32	32.28	0.133	0.918
2008	KE	BA	EU02	25.32	32.41	0.687	5.772
2008	KE	BA	NM03	25.32	35.82	1	30
2008	KE	BA	NM04	25.32	40.33	1	30
2008	KE	BB	NM01	25.79	30.34	1	24
2008	KE	BB	NM02	25.79	30.99	1	24
2008	KE	BB	NM03	25.79	31.61	1	24
2008	KE	BB	NM04	25.79	32.26	1	24
2008	KE	BB	ES01	25.79	32.28	7.475	87.579
2008	KE	BB	EU01	25.79	32.41	11.657	111.273
2008	KE	BB	NM05	25.79	32.89	1	24
2008	KE	BB	NM06	25.79	33.51	1	24
2008	KE	BB	NM07	25.79	34.16	1	24
2008	KE	BB	NM08	25.79	34.78	1	24
2008	KE	BB	NM09	25.79	35.4	1	24
2008	KE	BB	NM10	25.79	36.05	1	24

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	KE	BB	NM11	25.79	36.68	1	24
2008	KE	BB	NM12	25.79	37.32	1	24
2008	KE	BB	NM13	25.79	37.94	1	24
2008	KE	BB	NM14	25.79	38.57	1	24
2008	KE	BB	NM15	25.79	39.21	1	24
2008	KE	BB	NM16	25.79	39.84	1	24
2008	KE	BB	NM17	25.79	40.47	1	24
2008	KE	BB	NM18	25.79	41.11	1	24
2008	KE	BB	NM19	25.79	41.74	1	24
2008	KE	BB	NM20	25.79	42.37	1	24
2008	KE	BB	NM21	25.79	43.01	1	24
2008	KE	BB	NM22	25.79	43.64	1	24
2008	KE	BB	NM23	25.79	44.28	1	24
2008	KE	BB	NM24	25.79	44.9	1	24
2008	KE	BB	NM25	25.79	45.53	1	24
2008	KE	BB	NM26	25.79	46.17	1	24
2008	KE	BB	NM27	25.79	46.8	1	24
2008	KE	BB	NM28	25.79	47.43	1	24
2008	KE	BB	NM29	25.79	48.07	1	24
2008	KE	BB	NM30	25.79	48.69	1	24
2008	KE	BB	NM31	25.79	49.34	1	24
2008	KE	BB	NM32	25.79	49.96	1	24
2008	KE	BD	NM01	25.33	29.22	2.5	60
2008	KE	BD	NM02	25.33	29.75	2.5	60
2008	KE	BD	NM03	25.33	30.28	2.5	60
2008	KE	BD	NM04	25.33	30.8	2.5	60
2008	KE	BD	NM05	25.33	31.32	2.5	60
2008	KE	BD	NM06	25.33	31.86	2.5	60
2008	KE	BD	ES01	25.33	32.28	19.732	173.356
2008	KE	BD	NM07	25.33	32.38	2.5	60
2008	KE	BD	EU01	25.33	32.41	19.12	222.669
2008	KE	BD	NM08	25.33	32.92	2.5	60
2008	KE	BD	NM09	25.33	33.43	2.5	60
2008	KE	BD	NM10	25.33	33.97	2.5	60
2008	KE	BD	NM11	25.33	34.49	2.5	60
2008	KE	BD	NM12	25.33	35.03	2.5	60
2008	KE	BD	NM13	25.33	35.55	2.5	60
2008	KE	BD	NM14	25.33	36.07	2.5	60
2008	KE	BD	NM15	25.33	36.6	2.5	60
2008	KE	BD	NM16	25.33	37.13	2.5	60
2008	KE	BD	NM17	25.33	37.66	2.5	60
2008	KE	BD	NM18	25.33	38.18	2.5	60
2008	KE	BD	NM19	25.33	38.7	2.5	60
2008	KE	BD	NM20	25.33	39.24	2.5	60
2008	KE	BD	NM21	25.33	39.76	2.5	60
2008	KE	BD	NM22	25.33	40.3	2.5	60
2008	KE	BD	NM23	25.33	40.81	2.5	60
2008	KE	BD	NM24	25.33	41.35	2.5	60
2008	KE	BD	NM25	25.33	41.87	2.5	60
2008	KE	BD	NM26	25.33	42.41	2.5	60
2008	KE	BD	NM27	25.33	42.93	2.5	60
2008	KE	BD	NM28	25.33	43.45	2.5	60
2008	KE	BD	NM29	25.33	43.98	2.5	60
2008	KE	BD	NM30	25.33	44.51	2.5	60
2008	KE	BD	NM31	25.33	45.04	2.5	60
2008	KE	BD	NM32	25.33	45.56	2.5	60
2008	KE	BD	NM33	25.33	46.08	2.5	60
2008	KE	BD	NM34	25.33	46.62	2.5	60
2008	KE	BD	NM35	25.33	47.14	2.5	60
2008	KE	BD	NM36	25.33	47.68	2.5	60
2008	KE	BD	NM37	25.33	48.19	2.5	60
2008	KE	BE	NM01	25.14	31.64	2.25	54
2008	KE	BE	NM02	25.14	32.21	2.25	54
2008	KE	BE	ES01	25.14	32.28	12.786	109.589
2008	KE	BE	EU01	25.14	32.41	13.107	151.217
2008	KE	BE	NM03	25.14	32.77	2.25	54
2008	KE	BE	NM04	25.14	33.33	2.25	54
2008	KE	BE	NM05	25.14	33.9	2.25	54
2008	KE	BE	NM06	25.14	34.47	2.25	54
2008	KE	BE	NM07	25.14	35.03	2.25	54
2008	KE	BE	NM08	25.14	35.59	2.25	54
2008	KE	BE	NM09	25.14	36.16	2.25	54
2008	KE	BE	NM10	25.14	36.72	2.25	54
2008	KE	BE	NM11	25.14	37.29	2.25	54
2008	KE	BE	NM12	25.14	37.86	2.25	54
2008	KE	BE	NM13	25.14	38.41	2.25	54
2008	KE	BE	NM14	25.14	38.98	2.25	54

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	KE	BE	NM15	25.14	39.55	2.25	54
2008	KE	BE	NM16	25.14	40.11	2.25	54
2008	KE	BE	NM17	25.14	40.68	2.25	54
2008	KE	BE	NM18	25.14	41.25	2.25	54
2008	KE	BE	NM19	25.14	41.8	2.25	54
2008	KE	BE	NM20	25.14	42.37	2.25	54
2008	KE	BE	NM21	25.14	42.94	2.25	54
2008	KE	BE	NM22	25.14	43.5	2.25	54
2008	KE	BE	NM23	25.14	44.07	2.25	54
2008	KE	BE	NM24	25.14	44.63	2.25	54
2008	KE	BE	NM25	25.14	45.19	2.25	54
2008	KE	BE	NM26	25.14	45.76	2.25	54
2008	KE	BE	NM27	25.14	46.33	2.25	54
2008	KE	BE	NM28	25.14	46.89	2.25	54
2008	KE	BE	NM29	25.14	47.46	2.25	54
2008	KE	BE	NM30	25.14	48.02	2.25	54
2008	KE	BE	NM31	25.14	48.58	2.25	54
2008	KE	BE	NM32	25.14	49.15	2.25	54
2008	KE	BE	NM33	25.14	49.72	2.25	54
2008	KE	BE	NM34	25.14	50.28	2.25	54
2008	KE	BE	NM35	25.14	50.84	2.25	54
2008	KE	BE	NM36	25.14	51.41	2.25	54
2008	KE	BE	NM37	25.14	51.93	1.88	45.2
2008	KE	BG	NM01	24.09	28.7	0.25	6
2008	KE	BG	ES01	24.09	32.28	1.443	9.369
2008	KE	BG	EU02	24.09	32.41	2.262	24.63
2008	KE	BG	NM02	24.09	32.42	0.25	6
2008	KE	BG	NM03	24.09	36.12	0.25	6
2008	KE	BG	NM04	24.09	39.81	0.25	6
2008	KE	BG	NM05	24.09	43.52	0.25	6
2009	KE	BA	NM01	25.32	26.68	1	30
2009	KE	BA	NM02	25.32	31.17	1	30
2009	KE	BA	ES01	25.32	32.15	0.133	0.918
2009	KE	BA	EU02	25.32	32.28	0.687	5.772
2009	KE	BA	NM03	25.32	35.67	1	30
2009	KE	BA	NM04	25.32	40.18	1	30
2009	KE	BB	NM01	25.79	30.23	1	24
2009	KE	BB	NM02	25.79	30.86	1	24
2009	KE	BB	NM03	25.79	31.49	1	24
2009	KE	BB	NM04	25.79	32.13	1	24
2009	KE	BB	ES01	25.79	32.15	7.475	87.579
2009	KE	BB	EU01	25.79	32.28	11.657	111.273
2009	KE	BB	NM05	25.79	32.75	1	24
2009	KE	BB	NM06	25.79	33.38	1	24
2009	KE	BB	NM07	25.79	34.01	1	24
2009	KE	BB	NM08	25.79	34.65	1	24
2009	KE	BB	NM09	25.79	35.27	1	24
2009	KE	BB	NM10	25.79	35.9	1	24
2009	KE	BB	NM11	25.79	36.54	1	24
2009	KE	BB	NM12	25.79	37.17	1	24
2009	KE	BB	NM13	25.79	37.79	1	24
2009	KE	BB	NM14	25.79	38.43	1	24
2009	KE	BB	NM15	25.79	39.05	1	24
2009	KE	BB	NM16	25.79	39.69	1	24
2009	KE	BB	NM17	25.79	40.31	1	24
2009	KE	BB	NM18	25.79	40.93	1	24
2009	KE	BB	NM19	25.79	41.58	1	24
2009	KE	BB	NM20	25.79	42.2	1	24
2009	KE	BB	NM21	25.79	42.83	1	24
2009	KE	BB	NM22	25.79	43.46	1	24
2009	KE	BB	NM23	25.79	44.1	1	24
2009	KE	BB	NM24	25.79	44.72	1	24
2009	KE	BB	NM25	25.79	45.35	1	24
2009	KE	BB	NM26	25.79	45.98	1	24
2009	KE	BB	NM27	25.79	46.62	1	24
2009	KE	BB	NM28	25.79	47.24	1	24
2009	KE	BB	NM29	25.79	47.87	1	24
2009	KE	BB	NM30	25.79	48.5	1	24
2009	KE	BB	NM31	25.79	49.14	1	24
2009	KE	BB	NM32	25.79	49.76	1	24
2009	KE	BD	NM01	25.33	29.05	2	48
2009	KE	BD	NM02	25.33	29.47	2	48
2009	KE	BD	NM03	25.33	29.9	2	48
2009	KE	BD	NM04	25.33	30.32	2	48
2009	KE	BD	NM05	25.33	30.73	2	48
2009	KE	BD	NM06	25.33	31.15	2	48
2009	KE	BD	NM07	25.33	31.57	2	48

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	KE	BD	NM08	25.33	31.99	2	48
2009	KE	BD	ES01	25.33	32.15	19.732	173.356
2009	KE	BD	EU01	25.33	32.28	19.12	222.669
2009	KE	BD	NM09	25.33	32.42	2	48
2009	KE	BD	NM10	25.33	32.84	2	48
2009	KE	BD	NM11	25.33	33.25	2	48
2009	KE	BD	NM12	25.33	33.67	2	48
2009	KE	BD	NM13	25.33	34.09	2	48
2009	KE	BD	NM14	25.33	34.51	2	48
2009	KE	BD	NM15	25.33	34.94	2	48
2009	KE	BD	NM16	25.33	35.36	2	48
2009	KE	BD	NM17	25.33	35.77	2	48
2009	KE	BD	NM18	25.33	36.2	2	48
2009	KE	BD	NM19	25.33	36.61	2	48
2009	KE	BD	NM20	25.33	37.03	2	48
2009	KE	BD	NM21	25.33	37.46	2	48
2009	KE	BD	NM22	25.33	37.88	2	48
2009	KE	BD	NM23	25.33	38.29	2	48
2009	KE	BD	NM24	25.33	38.7	2	48
2009	KE	BD	NM25	25.33	39.13	2	48
2009	KE	BD	NM26	25.33	39.55	2	48
2009	KE	BD	NM27	25.33	39.96	2	48
2009	KE	BD	NM28	25.33	40.4	2	48
2009	KE	BD	NM29	25.33	40.82	2	48
2009	KE	BD	NM30	25.33	41.22	2	48
2009	KE	BD	NM31	25.33	41.65	2	48
2009	KE	BD	NM32	25.33	42.07	2	48
2009	KE	BD	NM33	25.33	42.49	2	48
2009	KE	BD	NM34	25.33	42.91	2	48
2009	KE	BD	NM35	25.33	43.34	2	48
2009	KE	BD	NM36	25.33	43.75	2	48
2009	KE	BD	NM37	25.33	44.17	2	48
2009	KE	BD	NM38	25.33	44.6	2	48
2009	KE	BD	NM39	25.33	45.01	2	48
2009	KE	BD	NM40	25.33	45.44	2	48
2009	KE	BD	NM41	25.33	45.86	2	48
2009	KE	BD	NM42	25.33	46.27	2	48
2009	KE	BD	NM43	25.33	46.69	2	48
2009	KE	BD	NM44	25.33	47.11	2	48
2009	KE	BD	NM45	25.33	47.53	2	48
2009	KE	BD	NM46	25.33	47.96	2	48
2009	KE	BD	NM47	25.33	48.21	0.5	12
2009	KE	BE	NM01	25.14	31.48	2	48
2009	KE	BE	NM02	25.14	31.98	2	48
2009	KE	BE	ES01	25.14	32.15	12.786	109.589
2009	KE	BE	EU01	25.14	32.28	13.107	151.217
2009	KE	BE	NM03	25.14	32.48	2	48
2009	KE	BE	NM04	25.14	32.99	2	48
2009	KE	BE	NM05	25.14	33.49	2	48
2009	KE	BE	NM06	25.14	33.98	2	48
2009	KE	BE	NM07	25.14	34.48	2	48
2009	KE	BE	NM08	25.14	34.98	2	48
2009	KE	BE	NM09	25.14	35.48	2	48
2009	KE	BE	NM10	25.14	35.98	2	48
2009	KE	BE	NM11	25.14	36.49	2	48
2009	KE	BE	NM12	25.14	36.98	2	48
2009	KE	BE	NM13	25.14	37.48	2	48
2009	KE	BE	NM14	25.14	37.98	2	48
2009	KE	BE	NM15	25.14	38.48	2	48
2009	KE	BE	NM16	25.14	38.98	2	48
2009	KE	BE	NM17	25.14	39.48	2	48
2009	KE	BE	NM18	25.14	39.99	2	48
2009	KE	BE	NM19	25.14	40.49	2	48
2009	KE	BE	NM20	25.14	40.98	2	48
2009	KE	BE	NM21	25.14	41.48	2	48
2009	KE	BE	NM22	25.14	41.98	2	48
2009	KE	BE	NM23	25.14	42.48	2	48
2009	KE	BE	NM24	25.14	42.99	2	48
2009	KE	BE	NM25	25.14	43.49	2	48
2009	KE	BE	NM26	25.14	43.99	2	48
2009	KE	BE	NM27	25.14	44.48	2	48
2009	KE	BE	NM28	25.14	44.98	2	48
2009	KE	BE	NM29	25.14	45.48	2	48
2009	KE	BE	NM30	25.14	45.98	2	48
2009	KE	BE	NM31	25.14	46.49	2	48
2009	KE	BE	NM32	25.14	46.99	2	48
2009	KE	BE	NM33	25.14	47.49	2	48

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	KE	BE	NM34	25.14	47.98	2	48
2009	KE	BE	NM35	25.14	48.48	2	48
2009	KE	BE	NM36	25.14	48.98	2	48
2009	KE	BE	NM37	25.14	49.48	2	48
2009	KE	BE	NM38	25.14	49.99	2	48
2009	KE	BE	NM39	25.14	50.49	2	48
2009	KE	BE	NM40	25.14	50.99	2	48
2009	KE	BE	NM41	25.14	51.48	2	48
2009	KE	BE	NM42	25.14	51.85	0.88	21.2
2009	KE	BG	NM01	24.09	28.59	0.25	6
2009	KE	BG	ES01	24.09	32.15	1.443	9.369
2009	KE	BG	EU02	24.09	32.28	2.262	24.63
2009	KE	BG	NM02	24.09	32.28	0.25	6
2009	KE	BG	NM03	24.09	35.97	0.25	6
2009	KE	BG	NM04	24.09	39.65	0.25	6
2009	KE	BG	NM05	24.09	43.34	0.25	6
2010	KE	BA	NM01	25.32	26.56	1	30
2010	KE	BA	NM02	25.32	31.05	1	30
2010	KE	BA	ES01	25.32	32.03	0.133	0.918
2010	KE	BA	EU02	25.32	32.15	0.687	5.772
2010	KE	BA	NM03	25.32	35.53	1	30
2010	KE	BA	NM04	25.32	40.01	1	30
2010	KE	BB	NM01	25.79	30.11	1	24
2010	KE	BB	NM02	25.79	30.74	1	24
2010	KE	BB	NM03	25.79	31.37	1	24
2010	KE	BB	NM04	25.79	31.99	1	24
2010	KE	BB	ES01	25.79	32.03	7.475	87.579
2010	KE	BB	EU01	25.79	32.15	11.657	111.273
2010	KE	BB	NM05	25.79	32.62	1	24
2010	KE	BB	NM06	25.79	33.24	1	24
2010	KE	BB	NM07	25.79	33.88	1	24
2010	KE	BB	NM08	25.79	34.5	1	24
2010	KE	BB	NM09	25.79	35.14	1	24
2010	KE	BB	NM10	25.79	35.76	1	24
2010	KE	BB	NM11	25.79	36.39	1	24
2010	KE	BB	NM12	25.79	37.01	1	24
2010	KE	BB	NM13	25.79	37.63	1	24
2010	KE	BB	NM14	25.79	38.27	1	24
2010	KE	BB	NM15	25.79	38.91	1	24
2010	KE	BB	NM16	25.79	39.53	1	24
2010	KE	BB	NM17	25.79	40.15	1	24
2010	KE	BB	NM18	25.79	40.78	1	24
2010	KE	BB	NM19	25.79	41.41	1	24
2010	KE	BB	NM20	25.79	42.03	1	24
2010	KE	BB	NM21	25.79	42.66	1	24
2010	KE	BB	NM22	25.79	43.3	1	24
2010	KE	BB	NM23	25.79	43.92	1	24
2010	KE	BB	NM24	25.79	44.55	1	24
2010	KE	BB	NM25	25.79	45.17	1	24
2010	KE	BB	NM26	25.79	45.79	1	24
2010	KE	BB	NM27	25.79	46.42	1	24
2010	KE	BB	NM28	25.79	47.05	1	24
2010	KE	BB	NM29	25.79	47.69	1	24
2010	KE	BB	NM30	25.79	48.31	1	24
2010	KE	BB	NM31	25.79	48.94	1	24
2010	KE	BB	NM32	25.79	49.56	1	24
2010	KE	BD	NM01	25.33	28.94	2	48
2010	KE	BD	NM02	25.33	29.36	2	48
2010	KE	BD	NM03	25.33	29.76	2	48
2010	KE	BD	NM04	25.33	30.19	2	48
2010	KE	BD	NM05	25.33	30.61	2	48
2010	KE	BD	NM06	25.33	31.03	2	48
2010	KE	BD	NM07	25.33	31.45	2	48
2010	KE	BD	NM08	25.33	31.86	2	48
2010	KE	BD	ES01	25.33	32.03	19.732	173.356
2010	KE	BD	EU01	25.33	32.15	19.12	222.669
2010	KE	BD	NM09	25.33	32.28	2	48
2010	KE	BD	NM10	25.33	32.71	2	48
2010	KE	BD	NM11	25.33	33.12	2	48
2010	KE	BD	NM12	25.33	33.53	2	48
2010	KE	BD	NM13	25.33	33.96	2	48
2010	KE	BD	NM14	25.33	34.38	2	48
2010	KE	BD	NM15	25.33	34.79	2	48
2010	KE	BD	NM16	25.33	35.2	2	48
2010	KE	BD	NM17	25.33	35.63	2	48
2010	KE	BD	NM18	25.33	36.05	2	48
2010	KE	BD	NM19	25.33	36.47	2	48

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	KE	BD	NM20	25.33	36.88	2	48
2010	KE	BD	NM21	25.33	37.31	2	48
2010	KE	BD	NM22	25.33	37.72	2	48
2010	KE	BD	NM23	25.33	38.15	2	48
2010	KE	BD	NM24	25.33	38.56	2	48
2010	KE	BD	NM25	25.33	38.98	2	48
2010	KE	BD	NM26	25.33	39.4	2	48
2010	KE	BD	NM27	25.33	39.82	2	48
2010	KE	BD	NM28	25.33	40.23	2	48
2010	KE	BD	NM29	25.33	40.66	2	48
2010	KE	BD	NM30	25.33	41.07	2	48
2010	KE	BD	NM31	25.33	41.49	2	48
2010	KE	BD	NM32	25.33	41.9	2	48
2010	KE	BD	NM33	25.33	42.33	2	48
2010	KE	BD	NM34	25.33	42.74	2	48
2010	KE	BD	NM35	25.33	43.16	2	48
2010	KE	BD	NM36	25.33	43.59	2	48
2010	KE	BD	NM37	25.33	44	2	48
2010	KE	BD	NM38	25.33	44.41	2	48
2010	KE	BD	NM39	25.33	44.84	2	48
2010	KE	BD	NM40	25.33	45.26	2	48
2010	KE	BD	NM41	25.33	45.67	2	48
2010	KE	BD	NM42	25.33	46.08	2	48
2010	KE	BD	NM43	25.33	46.51	2	48
2010	KE	BD	NM44	25.33	46.93	2	48
2010	KE	BD	NM45	25.33	47.34	2	48
2010	KE	BD	NM46	25.33	47.76	2	48
2010	KE	BD	NM47	25.33	48.02	0.5	12
2010	KE	BE	NM01	25.14	31.36	2	48
2010	KE	BE	NM02	25.14	31.86	2	48
2010	KE	BE	ES01	25.14	32.03	12.786	109.589
2010	KE	BE	EU01	25.14	32.15	13.107	151.217
2010	KE	BE	NM03	25.14	32.35	2	48
2010	KE	BE	NM04	25.14	32.85	2	48
2010	KE	BE	NM05	25.14	33.35	2	48
2010	KE	BE	NM06	25.14	33.84	2	48
2010	KE	BE	NM07	25.14	34.35	2	48
2010	KE	BE	NM08	25.14	34.85	2	48
2010	KE	BE	NM09	25.14	35.34	2	48
2010	KE	BE	NM10	25.14	35.84	2	48
2010	KE	BE	NM11	25.14	36.34	2	48
2010	KE	BE	NM12	25.14	36.83	2	48
2010	KE	BE	NM13	25.14	37.33	2	48
2010	KE	BE	NM14	25.14	37.83	2	48
2010	KE	BE	NM15	25.14	38.33	2	48
2010	KE	BE	NM16	25.14	38.83	2	48
2010	KE	BE	NM17	25.14	39.33	2	48
2010	KE	BE	NM18	25.14	39.82	2	48
2010	KE	BE	NM19	25.14	40.32	2	48
2010	KE	BE	NM20	25.14	40.82	2	48
2010	KE	BE	NM21	25.14	41.31	2	48
2010	KE	BE	NM22	25.14	41.81	2	48
2010	KE	BE	NM23	25.14	42.32	2	48
2010	KE	BE	NM24	25.14	42.81	2	48
2010	KE	BE	NM25	25.14	43.31	2	48
2010	KE	BE	NM26	25.14	43.81	2	48
2010	KE	BE	NM27	25.14	44.3	2	48
2010	KE	BE	NM28	25.14	44.8	2	48
2010	KE	BE	NM29	25.14	45.3	2	48
2010	KE	BE	NM30	25.14	45.79	2	48
2010	KE	BE	NM31	25.14	46.3	2	48
2010	KE	BE	NM32	25.14	46.8	2	48
2010	KE	BE	NM33	25.14	47.29	2	48
2010	KE	BE	NM34	25.14	47.79	2	48
2010	KE	BE	NM35	25.14	48.29	2	48
2010	KE	BE	NM36	25.14	48.78	2	48
2010	KE	BE	NM37	25.14	49.28	2	48
2010	KE	BE	NM38	25.14	49.79	2	48
2010	KE	BE	NM39	25.14	50.29	2	48
2010	KE	BE	NM40	25.14	50.78	2	48
2010	KE	BE	NM41	25.14	51.28	2	48
2010	KE	BE	NM42	25.14	51.64	0.88	21.2
2010	KE	BG	NM01	24.09	28.48	0.25	6
2010	KE	BG	ES01	24.09	32.03	1.443	9.369
2010	KE	BG	EU02	24.09	32.15	2.262	24.63
2010	KE	BG	NM02	24.09	32.15	0.25	6
2010	KE	BG	NM03	24.09	35.83	0.25	6

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	KE	BG	NM04	24.09	39.5	0.25	6
2010	KE	BG	NM05	24.09	43.17	0.25	6
2015	KE	BA	NM01	25.32	26.04	1	30
2015	KE	BA	NM02	25.32	30.43	1	30
2015	KE	BA	ES01	25.32	31.39	0.133	0.918
2015	KE	BA	EU02	25.32	31.51	0.687	5.772
2015	KE	BA	NM03	25.32	34.82	1	30
2015	KE	BA	NM04	25.32	39.22	1	30
2015	KE	BB	NM01	25.79	29.52	1	24
2015	KE	BB	NM02	25.79	30.13	1	24
2015	KE	BB	NM03	25.79	30.74	1	24
2015	KE	BB	NM04	25.79	31.36	1	24
2015	KE	BB	ES01	25.79	31.39	7.475	87.579
2015	KE	BB	EU01	25.79	31.51	11.657	111.273
2015	KE	BB	NM05	25.79	31.97	1	24
2015	KE	BB	NM06	25.79	32.58	1	24
2015	KE	BB	NM07	25.79	33.21	1	24
2015	KE	BB	NM08	25.79	33.82	1	24
2015	KE	BB	NM09	25.79	34.43	1	24
2015	KE	BB	NM10	25.79	35.05	1	24
2015	KE	BB	NM11	25.79	35.66	1	24
2015	KE	BB	NM12	25.79	36.27	1	24
2015	KE	BB	NM13	25.79	36.9	1	24
2015	KE	BB	NM14	25.79	37.51	1	24
2015	KE	BB	NM15	25.79	38.12	1	24
2015	KE	BB	NM16	25.79	38.74	1	24
2015	KE	BB	NM17	25.79	39.35	1	24
2015	KE	BB	NM18	25.79	39.98	1	24
2015	KE	BB	NM19	25.79	40.59	1	24
2015	KE	BB	NM20	25.79	41.2	1	24
2015	KE	BB	NM21	25.79	41.81	1	24
2015	KE	BB	NM22	25.79	42.43	1	24
2015	KE	BB	NM23	25.79	43.04	1	24
2015	KE	BB	NM24	25.79	43.67	1	24
2015	KE	BB	NM25	25.79	44.28	1	24
2015	KE	BB	NM26	25.79	44.89	1	24
2015	KE	BB	NM27	25.79	45.5	1	24
2015	KE	BB	NM28	25.79	46.12	1	24
2015	KE	BB	NM29	25.79	46.73	1	24
2015	KE	BB	NM30	25.79	47.35	1	24
2015	KE	BB	NM31	25.79	47.97	1	24
2015	KE	BB	NM32	25.79	48.58	1	24
2015	KE	BD	NM01	25.33	28.36	2	48
2015	KE	BD	NM02	25.33	28.77	2	48
2015	KE	BD	NM03	25.33	29.18	2	48
2015	KE	BD	NM04	25.33	29.6	2	48
2015	KE	BD	NM05	25.33	30	2	48
2015	KE	BD	NM06	25.33	30.41	2	48
2015	KE	BD	NM07	25.33	30.82	2	48
2015	KE	BD	NM08	25.33	31.24	2	48
2015	KE	BD	ES01	25.33	31.39	19.732	173.356
2015	KE	BD	EU01	25.33	31.51	19.12	222.669
2015	KE	BD	NM09	25.33	31.64	2	48
2015	KE	BD	NM10	25.33	32.05	2	48
2015	KE	BD	NM11	25.33	32.46	2	48
2015	KE	BD	NM12	25.33	32.87	2	48
2015	KE	BD	NM13	25.33	33.29	2	48
2015	KE	BD	NM14	25.33	33.69	2	48
2015	KE	BD	NM15	25.33	34.1	2	48
2015	KE	BD	NM16	25.33	34.51	2	48
2015	KE	BD	NM17	25.33	34.93	2	48
2015	KE	BD	NM18	25.33	35.34	2	48
2015	KE	BD	NM19	25.33	35.74	2	48
2015	KE	BD	NM20	25.33	36.15	2	48
2015	KE	BD	NM21	25.33	36.56	2	48
2015	KE	BD	NM22	25.33	36.98	2	48
2015	KE	BD	NM23	25.33	37.38	2	48
2015	KE	BD	NM24	25.33	37.79	2	48
2015	KE	BD	NM25	25.33	38.2	2	48
2015	KE	BD	NM26	25.33	38.62	2	48
2015	KE	BD	NM27	25.33	39.03	2	48
2015	KE	BD	NM28	25.33	39.43	2	48
2015	KE	BD	NM29	25.33	39.84	2	48
2015	KE	BD	NM30	25.33	40.25	2	48
2015	KE	BD	NM31	25.33	40.67	2	48
2015	KE	BD	NM32	25.33	41.08	2	48
2015	KE	BD	NM33	25.33	41.48	2	48

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	KE	BD	NM34	25.33	41.89	2	48
2015	KE	BD	NM35	25.33	42.31	2	48
2015	KE	BD	NM36	25.33	42.72	2	48
2015	KE	BD	NM37	25.33	43.12	2	48
2015	KE	BD	NM38	25.33	43.53	2	48
2015	KE	BD	NM39	25.33	43.94	2	48
2015	KE	BD	NM40	25.33	44.36	2	48
2015	KE	BD	NM41	25.33	44.77	2	48
2015	KE	BD	NM42	25.33	45.17	2	48
2015	KE	BD	NM43	25.33	45.58	2	48
2015	KE	BD	NM44	25.33	45.99	2	48
2015	KE	BD	NM45	25.33	46.41	2	48
2015	KE	BD	NM46	25.33	46.82	2	48
2015	KE	BD	NM47	25.33	47.07	0.5	12
2015	KE	BE	NM01	25.14	30.7	1.75	42
2015	KE	BE	NM02	25.14	31.14	1.75	42
2015	KE	BE	ES01	25.14	31.39	12.786	109.589
2015	KE	BE	EU01	25.14	31.51	13.107	151.217
2015	KE	BE	NM03	25.14	31.56	1.75	42
2015	KE	BE	NM04	25.14	31.98	1.75	42
2015	KE	BE	NM05	25.14	32.41	1.75	42
2015	KE	BE	NM06	25.14	32.84	1.75	42
2015	KE	BE	NM07	25.14	33.26	1.75	42
2015	KE	BE	NM08	25.14	33.7	1.75	42
2015	KE	BE	NM09	25.14	34.12	1.75	42
2015	KE	BE	NM10	25.14	34.55	1.75	42
2015	KE	BE	NM11	25.14	34.98	1.75	42
2015	KE	BE	NM12	25.14	35.4	1.75	42
2015	KE	BE	NM13	25.14	35.83	1.75	42
2015	KE	BE	NM14	25.14	36.25	1.75	42
2015	KE	BE	NM15	25.14	36.69	1.75	42
2015	KE	BE	NM16	25.14	37.11	1.75	42
2015	KE	BE	NM17	25.14	37.53	1.75	42
2015	KE	BE	NM18	25.14	37.97	1.75	42
2015	KE	BE	NM19	25.14	38.39	1.75	42
2015	KE	BE	NM20	25.14	38.82	1.75	42
2015	KE	BE	NM21	25.14	39.24	1.75	42
2015	KE	BE	NM22	25.14	39.67	1.75	42
2015	KE	BE	NM23	25.14	40.1	1.75	42
2015	KE	BE	NM24	25.14	40.53	1.75	42
2015	KE	BE	NM25	25.14	40.96	1.75	42
2015	KE	BE	NM26	25.14	41.38	1.75	42
2015	KE	BE	NM27	25.14	41.81	1.75	42
2015	KE	BE	NM28	25.14	42.24	1.75	42
2015	KE	BE	NM29	25.14	42.66	1.75	42
2015	KE	BE	NM30	25.14	43.09	1.75	42
2015	KE	BE	NM31	25.14	43.52	1.75	42
2015	KE	BE	NM32	25.14	43.94	1.75	42
2015	KE	BE	NM33	25.14	44.37	1.75	42
2015	KE	BE	NM34	25.14	44.8	1.75	42
2015	KE	BE	NM35	25.14	45.23	1.75	42
2015	KE	BE	NM36	25.14	45.66	1.75	42
2015	KE	BE	NM37	25.14	46.08	1.75	42
2015	KE	BE	NM38	25.14	46.51	1.75	42
2015	KE	BE	NM39	25.14	46.93	1.75	42
2015	KE	BE	NM40	25.14	47.37	1.75	42
2015	KE	BE	NM41	25.14	47.79	1.75	42
2015	KE	BE	NM42	25.14	48.21	1.75	42
2015	KE	BE	NM43	25.14	48.65	1.75	42
2015	KE	BE	NM44	25.14	49.07	1.75	42
2015	KE	BE	NM45	25.14	49.5	1.75	42
2015	KE	BE	NM46	25.14	49.92	1.75	42
2015	KE	BE	NM47	25.14	50.35	1.75	42
2015	KE	BE	NM48	25.14	50.64	0.63	15.2
2015	KE	BG	NM01	24.09	27.91	0.25	6
2015	KE	BG	ES01	24.09	31.39	1.443	9.369
2015	KE	BG	EU02	24.09	31.51	2.262	24.63
2015	KE	BG	NM02	24.09	31.51	0.25	6
2015	KE	BG	NM03	24.09	35.11	0.25	6
2015	KE	BG	NM04	24.09	38.72	0.25	6
2015	KE	BG	NM05	24.09	42.32	0.25	6
2020	KE	BA	NM01	25.32	25.52	1	30
2020	KE	BA	NM02	25.32	29.83	1	30
2020	KE	BA	ES01	25.32	30.77	0.133	0.918
2020	KE	BA	EU02	25.32	30.89	0.687	5.772
2020	KE	BA	NM03	25.32	34.13	1	30
2020	KE	BA	NM04	25.32	38.44	1	30

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	KE	BB	NM01	25.79	28.93	1	24
2020	KE	BB	NM02	25.79	29.53	1	24
2020	KE	BB	NM03	25.79	30.13	1	24
2020	KE	BB	NM04	25.79	30.74	1	24
2020	KE	BB	ES01	25.79	30.77	7.475	87.579
2020	KE	BB	EU01	25.79	30.89	11.657	111.273
2020	KE	BB	NM05	25.79	31.35	1	24
2020	KE	BB	NM06	25.79	31.95	1	24
2020	KE	BB	NM07	25.79	32.55	1	24
2020	KE	BB	NM08	25.79	33.15	1	24
2020	KE	BB	NM09	25.79	33.75	1	24
2020	KE	BB	NM10	25.79	34.36	1	24
2020	KE	BB	NM11	25.79	34.96	1	24
2020	KE	BB	NM12	25.79	35.56	1	24
2020	KE	BB	NM13	25.79	36.16	1	24
2020	KE	BB	NM14	25.79	36.76	1	24
2020	KE	BB	NM15	25.79	37.37	1	24
2020	KE	BB	NM16	25.79	37.97	1	24
2020	KE	BB	NM17	25.79	38.57	1	24
2020	KE	BB	NM18	25.79	39.18	1	24
2020	KE	BB	NM19	25.79	39.77	1	24
2020	KE	BB	NM20	25.79	40.38	1	24
2020	KE	BB	NM21	25.79	40.98	1	24
2020	KE	BB	NM22	25.79	41.58	1	24
2020	KE	BB	NM23	25.79	42.19	1	24
2020	KE	BB	NM24	25.79	42.8	1	24
2020	KE	BB	NM25	25.79	43.4	1	24
2020	KE	BB	NM26	25.79	44	1	24
2020	KE	BB	NM27	25.79	44.6	1	24
2020	KE	BB	NM28	25.79	45.2	1	24
2020	KE	BB	NM29	25.79	45.82	1	24
2020	KE	BB	NM30	25.79	46.42	1	24
2020	KE	BB	NM31	25.79	47.02	1	24
2020	KE	BB	NM32	25.79	47.62	1	24
2020	KE	BD	NM01	25.33	27.8	2	48
2020	KE	BD	NM02	25.33	28.2	2	48
2020	KE	BD	NM03	25.33	28.6	2	48
2020	KE	BD	NM04	25.33	29.01	2	48
2020	KE	BD	NM05	25.33	29.41	2	48
2020	KE	BD	NM06	25.33	29.81	2	48
2020	KE	BD	NM07	25.33	30.21	2	48
2020	KE	BD	NM08	25.33	30.61	2	48
2020	KE	BD	ES01	25.33	30.77	19.732	173.356
2020	KE	BD	EU01	25.33	30.89	19.12	222.669
2020	KE	BD	NM09	25.33	31.01	2	48
2020	KE	BD	NM10	25.33	31.41	2	48
2020	KE	BD	NM11	25.33	31.82	2	48
2020	KE	BD	NM12	25.33	32.22	2	48
2020	KE	BD	NM13	25.33	32.62	2	48
2020	KE	BD	NM14	25.33	33.02	2	48
2020	KE	BD	NM15	25.33	33.42	2	48
2020	KE	BD	NM16	25.33	33.82	2	48
2020	KE	BD	NM17	25.33	34.22	2	48
2020	KE	BD	NM18	25.33	34.62	2	48
2020	KE	BD	NM19	25.33	35.03	2	48
2020	KE	BD	NM20	25.33	35.43	2	48
2020	KE	BD	NM21	25.33	35.84	2	48
2020	KE	BD	NM22	25.33	36.24	2	48
2020	KE	BD	NM23	25.33	36.64	2	48
2020	KE	BD	NM24	25.33	37.04	2	48
2020	KE	BD	NM25	25.33	37.44	2	48
2020	KE	BD	NM26	25.33	37.85	2	48
2020	KE	BD	NM27	25.33	38.25	2	48
2020	KE	BD	NM28	25.33	38.65	2	48
2020	KE	BD	NM29	25.33	39.05	2	48
2020	KE	BD	NM30	25.33	39.46	2	48
2020	KE	BD	NM31	25.33	39.86	2	48
2020	KE	BD	NM32	25.33	40.27	2	48
2020	KE	BD	NM33	25.33	40.67	2	48
2020	KE	BD	NM34	25.33	41.07	2	48
2020	KE	BD	NM35	25.33	41.47	2	48
2020	KE	BD	NM36	25.33	41.87	2	48
2020	KE	BD	NM37	25.33	42.27	2	48
2020	KE	BD	NM38	25.33	42.67	2	48
2020	KE	BD	NM39	25.33	43.07	2	48
2020	KE	BD	NM40	25.33	43.48	2	48
2020	KE	BD	NM41	25.33	43.88	2	48

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	KE	BD	NM42	25.33	44.28	2	48
2020	KE	BD	NM43	25.33	44.68	2	48
2020	KE	BD	NM44	25.33	45.08	2	48
2020	KE	BD	NM45	25.33	45.48	2	48
2020	KE	BD	NM46	25.33	45.88	2	48
2020	KE	BD	NM47	25.33	46.13	0.5	12
2020	KE	BE	NM01	25.14	30.1	1.75	42
2020	KE	BE	NM02	25.14	30.51	1.75	42
2020	KE	BE	ES01	25.14	30.77	12.786	109.589
2020	KE	BE	EU01	25.14	30.89	13.107	151.217
2020	KE	BE	NM03	25.14	30.93	1.75	42
2020	KE	BE	NM04	25.14	31.35	1.75	42
2020	KE	BE	NM05	25.14	31.77	1.75	42
2020	KE	BE	NM06	25.14	32.18	1.75	42
2020	KE	BE	NM07	25.14	32.61	1.75	42
2020	KE	BE	NM08	25.14	33.03	1.75	42
2020	KE	BE	NM09	25.14	33.44	1.75	42
2020	KE	BE	NM10	25.14	33.87	1.75	42
2020	KE	BE	NM11	25.14	34.28	1.75	42
2020	KE	BE	NM12	25.14	34.7	1.75	42
2020	KE	BE	NM13	25.14	35.11	1.75	42
2020	KE	BE	NM14	25.14	35.54	1.75	42
2020	KE	BE	NM15	25.14	35.95	1.75	42
2020	KE	BE	NM16	25.14	36.37	1.75	42
2020	KE	BE	NM17	25.14	36.8	1.75	42
2020	KE	BE	NM18	25.14	37.21	1.75	42
2020	KE	BE	NM19	25.14	37.63	1.75	42
2020	KE	BE	NM20	25.14	38.05	1.75	42
2020	KE	BE	NM21	25.14	38.47	1.75	42
2020	KE	BE	NM22	25.14	38.88	1.75	42
2020	KE	BE	NM23	25.14	39.31	1.75	42
2020	KE	BE	NM24	25.14	39.72	1.75	42
2020	KE	BE	NM25	25.14	40.14	1.75	42
2020	KE	BE	NM26	25.14	40.57	1.75	42
2020	KE	BE	NM27	25.14	40.98	1.75	42
2020	KE	BE	NM28	25.14	41.4	1.75	42
2020	KE	BE	NM29	25.14	41.81	1.75	42
2020	KE	BE	NM30	25.14	42.24	1.75	42
2020	KE	BE	NM31	25.14	42.65	1.75	42
2020	KE	BE	NM32	25.14	43.07	1.75	42
2020	KE	BE	NM33	25.14	43.49	1.75	42
2020	KE	BE	NM34	25.14	43.91	1.75	42
2020	KE	BE	NM35	25.14	44.33	1.75	42
2020	KE	BE	NM36	25.14	44.75	1.75	42
2020	KE	BE	NM37	25.14	45.17	1.75	42
2020	KE	BE	NM38	25.14	45.58	1.75	42
2020	KE	BE	NM39	25.14	46.01	1.75	42
2020	KE	BE	NM40	25.14	46.42	1.75	42
2020	KE	BE	NM41	25.14	46.84	1.75	42
2020	KE	BE	NM42	25.14	47.25	1.75	42
2020	KE	BE	NM43	25.14	47.68	1.75	42
2020	KE	BE	NM44	25.14	48.1	1.75	42
2020	KE	BE	NM45	25.14	48.51	1.75	42
2020	KE	BE	NM46	25.14	48.94	1.75	42
2020	KE	BE	NM47	25.14	49.35	1.75	42
2020	KE	BE	NM48	25.14	49.63	0.63	15.2
2020	KE	BG	NM01	24.09	27.36	0.25	6
2020	KE	BG	ES01	24.09	30.77	1.443	9.369
2020	KE	BG	EU02	24.09	30.89	2.262	24.63
2020	KE	BG	NM02	24.09	30.89	0.25	6
2020	KE	BG	NM03	24.09	34.42	0.25	6
2020	KE	BG	NM04	24.09	37.95	0.25	6
2020	KE	BG	NM05	24.09	41.47	0.25	6
2025	KE	BA	NM01	25.32	25.02	1	30
2025	KE	BA	NM02	25.32	29.24	1	30
2025	KE	BA	ES01	25.32	30.15	0.133	0.918
2025	KE	BA	EU02	25.32	30.28	0.687	5.772
2025	KE	BA	NM03	25.32	33.45	1	30
2025	KE	BA	NM04	25.32	37.68	1	30
2025	KE	BB	NM01	25.79	28.36	1	24
2025	KE	BB	NM02	25.79	28.94	1	24
2025	KE	BB	NM03	25.79	29.54	1	24
2025	KE	BB	NM04	25.79	30.12	1	24
2025	KE	BB	ES01	25.79	30.15	7.475	87.579
2025	KE	BB	EU01	25.79	30.28	11.657	111.273
2025	KE	BB	NM05	25.79	30.72	1	24
2025	KE	BB	NM06	25.79	31.3	1	24

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	KE	BB	NM07	25.79	31.9	1	24
2025	KE	BB	NM08	25.79	32.48	1	24
2025	KE	BB	NM09	25.79	33.09	1	24
2025	KE	BB	NM10	25.79	33.67	1	24
2025	KE	BB	NM11	25.79	34.27	1	24
2025	KE	BB	NM12	25.79	34.85	1	24
2025	KE	BB	NM13	25.79	35.45	1	24
2025	KE	BB	NM14	25.79	36.04	1	24
2025	KE	BB	NM15	25.79	36.62	1	24
2025	KE	BB	NM16	25.79	37.21	1	24
2025	KE	BB	NM17	25.79	37.81	1	24
2025	KE	BB	NM18	25.79	38.39	1	24
2025	KE	BB	NM19	25.79	38.99	1	24
2025	KE	BB	NM20	25.79	39.59	1	24
2025	KE	BB	NM21	25.79	40.16	1	24
2025	KE	BB	NM22	25.79	40.76	1	24
2025	KE	BB	NM23	25.79	41.36	1	24
2025	KE	BB	NM24	25.79	41.94	1	24
2025	KE	BB	NM25	25.79	42.54	1	24
2025	KE	BB	NM26	25.79	43.12	1	24
2025	KE	BB	NM27	25.79	43.72	1	24
2025	KE	BB	NM28	25.79	44.3	1	24
2025	KE	BB	NM29	25.79	44.9	1	24
2025	KE	BB	NM30	25.79	45.48	1	24
2025	KE	BB	NM31	25.79	46.08	1	24
2025	KE	BB	NM32	25.79	46.66	1	24
2025	KE	BD	NM01	25.33	27.24	2	48
2025	KE	BD	NM02	25.33	27.65	2	48
2025	KE	BD	NM03	25.33	28.04	2	48
2025	KE	BD	NM04	25.33	28.43	2	48
2025	KE	BD	NM05	25.33	28.83	2	48
2025	KE	BD	NM06	25.33	29.22	2	48
2025	KE	BD	NM07	25.33	29.61	2	48
2025	KE	BD	NM08	25.33	30.01	2	48
2025	KE	BD	ES01	25.33	30.15	19.732	173.356
2025	KE	BD	EU01	25.33	30.28	19.12	222.669
2025	KE	BD	NM09	25.33	30.4	2	48
2025	KE	BD	NM10	25.33	30.79	2	48
2025	KE	BD	NM11	25.33	31.19	2	48
2025	KE	BD	NM12	25.33	31.58	2	48
2025	KE	BD	NM13	25.33	31.97	2	48
2025	KE	BD	NM14	25.33	32.37	2	48
2025	KE	BD	NM15	25.33	32.76	2	48
2025	KE	BD	NM16	25.33	33.15	2	48
2025	KE	BD	NM17	25.33	33.55	2	48
2025	KE	BD	NM18	25.33	33.94	2	48
2025	KE	BD	NM19	25.33	34.33	2	48
2025	KE	BD	NM20	25.33	34.74	2	48
2025	KE	BD	NM21	25.33	35.13	2	48
2025	KE	BD	NM22	25.33	35.52	2	48
2025	KE	BD	NM23	25.33	35.92	2	48
2025	KE	BD	NM24	25.33	36.31	2	48
2025	KE	BD	NM25	25.33	36.7	2	48
2025	KE	BD	NM26	25.33	37.1	2	48
2025	KE	BD	NM27	25.33	37.49	2	48
2025	KE	BD	NM28	25.33	37.88	2	48
2025	KE	BD	NM29	25.33	38.28	2	48
2025	KE	BD	NM30	25.33	38.67	2	48
2025	KE	BD	NM31	25.33	39.06	2	48
2025	KE	BD	NM32	25.33	39.46	2	48
2025	KE	BD	NM33	25.33	39.85	2	48
2025	KE	BD	NM34	25.33	40.24	2	48
2025	KE	BD	NM35	25.33	40.64	2	48
2025	KE	BD	NM36	25.33	41.03	2	48
2025	KE	BD	NM37	25.33	41.42	2	48
2025	KE	BD	NM38	25.33	41.83	2	48
2025	KE	BD	NM39	25.33	42.22	2	48
2025	KE	BD	NM40	25.33	42.61	2	48
2025	KE	BD	NM41	25.33	43.01	2	48
2025	KE	BD	NM42	25.33	43.4	2	48
2025	KE	BD	NM43	25.33	43.79	2	48
2025	KE	BD	NM44	25.33	44.19	2	48
2025	KE	BD	NM45	25.33	44.58	2	48
2025	KE	BD	NM46	25.33	44.97	2	48
2025	KE	BD	NM47	25.33	45.21	0.5	12
2025	KE	BE	NM01	25.14	29.52	2	48
2025	KE	BE	NM02	25.14	29.99	2	48

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	KE	BE	ES01	25.14	30.15	12.786	109.589
2025	KE	BE	EU01	25.14	30.28	13.107	151.217
2025	KE	BE	NM03	25.14	30.46	2	48
2025	KE	BE	NM04	25.14	30.93	2	48
2025	KE	BE	NM05	25.14	31.4	2	48
2025	KE	BE	NM06	25.14	31.87	2	48
2025	KE	BE	NM07	25.14	32.35	2	48
2025	KE	BE	NM08	25.14	32.82	2	48
2025	KE	BE	NM09	25.14	33.29	2	48
2025	KE	BE	NM10	25.14	33.75	2	48
2025	KE	BE	NM11	25.14	34.22	2	48
2025	KE	BE	NM12	25.14	34.69	2	48
2025	KE	BE	NM13	25.14	35.16	2	48
2025	KE	BE	NM14	25.14	35.63	2	48
2025	KE	BE	NM15	25.14	36.1	2	48
2025	KE	BE	NM16	25.14	36.56	2	48
2025	KE	BE	NM17	25.14	37.03	2	48
2025	KE	BE	NM18	25.14	37.5	2	48
2025	KE	BE	NM19	25.14	37.97	2	48
2025	KE	BE	NM20	25.14	38.44	2	48
2025	KE	BE	NM21	25.14	38.91	2	48
2025	KE	BE	NM22	25.14	39.38	2	48
2025	KE	BE	NM23	25.14	39.84	2	48
2025	KE	BE	NM24	25.14	40.31	2	48
2025	KE	BE	NM25	25.14	40.78	2	48
2025	KE	BE	NM26	25.14	41.26	2	48
2025	KE	BE	NM27	25.14	41.71	2	48
2025	KE	BE	NM28	25.14	42.18	2	48
2025	KE	BE	NM29	25.14	42.65	2	48
2025	KE	BE	NM30	25.14	43.12	2	48
2025	KE	BE	NM31	25.14	43.59	2	48
2025	KE	BE	NM32	25.14	44.06	2	48
2025	KE	BE	NM33	25.14	44.53	2	48
2025	KE	BE	NM34	25.14	45	2	48
2025	KE	BE	NM35	25.14	45.48	2	48
2025	KE	BE	NM36	25.14	45.95	2	48
2025	KE	BE	NM37	25.14	46.42	2	48
2025	KE	BE	NM38	25.14	46.89	2	48
2025	KE	BE	NM39	25.14	47.35	2	48
2025	KE	BE	NM40	25.14	47.82	2	48
2025	KE	BE	NM41	25.14	48.29	2	48
2025	KE	BE	NM42	25.14	48.63	0.88	21.2
2025	KE	BG	NM01	24.09	26.82	0.25	6
2025	KE	BG	ES01	24.09	30.15	1.443	9.369
2025	KE	BG	EU02	24.09	30.28	2.262	24.63
2025	KE	BG	NM02	24.09	30.28	0.25	6
2025	KE	BG	NM03	24.09	33.74	0.25	6
2025	KE	BG	NM04	24.09	37.19	0.25	6
2025	KE	BG	NM05	24.09	40.66	0.25	6
2035	KE	BA	NM01	25.32	24.51	1	30
2035	KE	BA	NM02	25.32	28.66	1	30
2035	KE	BA	ES01	25.32	29.55	0.133	0.918
2035	KE	BA	EU02	25.32	29.67	0.687	5.772
2035	KE	BA	NM03	25.32	32.8	1	30
2035	KE	BA	NM04	25.32	36.93	1	30
2035	KE	BB	NM01	25.79	27.79	1	24
2035	KE	BB	NM02	25.79	28.37	1	24
2035	KE	BB	NM03	25.79	28.95	1	24
2035	KE	BB	NM04	25.79	29.53	1	24
2035	KE	BB	ES01	25.79	29.55	7.475	87.579
2035	KE	BB	EU01	25.79	29.67	11.657	111.273
2035	KE	BB	NM05	25.79	30.11	1	24
2035	KE	BB	NM06	25.79	30.69	1	24
2035	KE	BB	NM07	25.79	31.27	1	24
2035	KE	BB	NM08	25.79	31.85	1	24
2035	KE	BB	NM09	25.79	32.43	1	24
2035	KE	BB	NM10	25.79	33	1	24
2035	KE	BB	NM11	25.79	33.58	1	24
2035	KE	BB	NM12	25.79	34.16	1	24
2035	KE	BB	NM13	25.79	34.74	1	24
2035	KE	BB	NM14	25.79	35.32	1	24
2035	KE	BB	NM15	25.79	35.9	1	24
2035	KE	BB	NM16	25.79	36.47	1	24
2035	KE	BB	NM17	25.79	37.05	1	24
2035	KE	BB	NM18	25.79	37.63	1	24
2035	KE	BB	NM19	25.79	38.21	1	24
2035	KE	BB	NM20	25.79	38.79	1	24

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	KE	BB	NM21	25.79	39.37	1	24
2035	KE	BB	NM22	25.79	39.95	1	24
2035	KE	BB	NM23	25.79	40.53	1	24
2035	KE	BB	NM24	25.79	41.11	1	24
2035	KE	BB	NM25	25.79	41.69	1	24
2035	KE	BB	NM26	25.79	42.27	1	24
2035	KE	BB	NM27	25.79	42.85	1	24
2035	KE	BB	NM28	25.79	43.43	1	24
2035	KE	BB	NM29	25.79	44.01	1	24
2035	KE	BB	NM30	25.79	44.59	1	24
2035	KE	BB	NM31	25.79	45.17	1	24
2035	KE	BB	NM32	25.79	45.75	1	24
2035	KE	BD	NM01	25.33	26.71	2	48
2035	KE	BD	NM02	25.33	27.09	2	48
2035	KE	BD	NM03	25.33	27.48	2	48
2035	KE	BD	NM04	25.33	27.87	2	48
2035	KE	BD	NM05	25.33	28.25	2	48
2035	KE	BD	NM06	25.33	28.64	2	48
2035	KE	BD	NM07	25.33	29.03	2	48
2035	KE	BD	NM08	25.33	29.41	2	48
2035	KE	BD	ES01	25.33	29.55	19.732	173.356
2035	KE	BD	EU01	25.33	29.67	19.12	222.669
2035	KE	BD	NM09	25.33	29.8	2	48
2035	KE	BD	NM10	25.33	30.19	2	48
2035	KE	BD	NM11	25.33	30.57	2	48
2035	KE	BD	NM12	25.33	30.96	2	48
2035	KE	BD	NM13	25.33	31.35	2	48
2035	KE	BD	NM14	25.33	31.73	2	48
2035	KE	BD	NM15	25.33	32.12	2	48
2035	KE	BD	NM16	25.33	32.5	2	48
2035	KE	BD	NM17	25.33	32.89	2	48
2035	KE	BD	NM18	25.33	33.26	2	48
2035	KE	BD	NM19	25.33	33.65	2	48
2035	KE	BD	NM20	25.33	34.04	2	48
2035	KE	BD	NM21	25.33	34.42	2	48
2035	KE	BD	NM22	25.33	34.81	2	48
2035	KE	BD	NM23	25.33	35.2	2	48
2035	KE	BD	NM24	25.33	35.58	2	48
2035	KE	BD	NM25	25.33	35.97	2	48
2035	KE	BD	NM26	25.33	36.36	2	48
2035	KE	BD	NM27	25.33	36.74	2	48
2035	KE	BD	NM28	25.33	37.13	2	48
2035	KE	BD	NM29	25.33	37.52	2	48
2035	KE	BD	NM30	25.33	37.9	2	48
2035	KE	BD	NM31	25.33	38.29	2	48
2035	KE	BD	NM32	25.33	38.68	2	48
2035	KE	BD	NM33	25.33	39.06	2	48
2035	KE	BD	NM34	25.33	39.45	2	48
2035	KE	BD	NM35	25.33	39.84	2	48
2035	KE	BD	NM36	25.33	40.22	2	48
2035	KE	BD	NM37	25.33	40.61	2	48
2035	KE	BD	NM38	25.33	40.99	2	48
2035	KE	BD	NM39	25.33	41.38	2	48
2035	KE	BD	NM40	25.33	41.77	2	48
2035	KE	BD	NM41	25.33	42.15	2	48
2035	KE	BD	NM42	25.33	42.54	2	48
2035	KE	BD	NM43	25.33	42.93	2	48
2035	KE	BD	NM44	25.33	43.31	2	48
2035	KE	BD	NM45	25.33	43.7	2	48
2035	KE	BD	NM46	25.33	44.08	2	48
2035	KE	BD	NM47	25.33	44.32	0.5	12
2035	KE	BE	NM01	25.14	28.94	2	48
2035	KE	BE	NM02	25.14	29.41	2	48
2035	KE	BE	ES01	25.14	29.55	12.786	109.589
2035	KE	BE	EU01	25.14	29.67	13.107	151.217
2035	KE	BE	NM03	25.14	29.85	2	48
2035	KE	BE	NM04	25.14	30.32	2	48
2035	KE	BE	NM05	25.14	30.78	2	48
2035	KE	BE	NM06	25.14	31.24	2	48
2035	KE	BE	NM07	25.14	31.7	2	48
2035	KE	BE	NM08	25.14	32.16	2	48
2035	KE	BE	NM09	25.14	32.62	2	48
2035	KE	BE	NM10	25.14	33.07	2	48
2035	KE	BE	NM11	25.14	33.53	2	48
2035	KE	BE	NM12	25.14	34	2	48
2035	KE	BE	NM13	25.14	34.46	2	48
2035	KE	BE	NM14	25.14	34.91	2	48

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	KE	BE	NM15	25.14	35.38	2	48
2035	KE	BE	NM16	25.14	35.84	2	48
2035	KE	BE	NM17	25.14	36.3	2	48
2035	KE	BE	NM18	25.14	36.75	2	48
2035	KE	BE	NM19	25.14	37.21	2	48
2035	KE	BE	NM20	25.14	37.68	2	48
2035	KE	BE	NM21	25.14	38.14	2	48
2035	KE	BE	NM22	25.14	38.59	2	48
2035	KE	BE	NM23	25.14	39.05	2	48
2035	KE	BE	NM24	25.14	39.51	2	48
2035	KE	BE	NM25	25.14	39.98	2	48
2035	KE	BE	NM26	25.14	40.43	2	48
2035	KE	BE	NM27	25.14	40.89	2	48
2035	KE	BE	NM28	25.14	41.36	2	48
2035	KE	BE	NM29	25.14	41.81	2	48
2035	KE	BE	NM30	25.14	42.27	2	48
2035	KE	BE	NM31	25.14	42.73	2	48
2035	KE	BE	NM32	25.14	43.19	2	48
2035	KE	BE	NM33	25.14	43.65	2	48
2035	KE	BE	NM34	25.14	44.11	2	48
2035	KE	BE	NM35	25.14	44.57	2	48
2035	KE	BE	NM36	25.14	45.04	2	48
2035	KE	BE	NM37	25.14	45.48	2	48
2035	KE	BE	NM38	25.14	45.95	2	48
2035	KE	BE	NM39	25.14	46.41	2	48
2035	KE	BE	NM40	25.14	46.86	2	48
2035	KE	BE	NM41	25.14	47.33	2	48
2035	KE	BE	NM42	25.14	47.66	0.88	21.2
2035	KE	BG	NM01	24.09	26.29	0.25	6
2035	KE	BG	ES01	24.09	29.55	1.443	9.369
2035	KE	BG	EU02	24.09	29.67	2.262	24.63
2035	KE	BG	NM02	24.09	29.67	0.25	6
2035	KE	BG	NM03	24.09	33.06	0.25	6
2035	KE	BG	NM04	24.09	36.45	0.25	6
2035	KE	BG	NM05	24.09	39.84	0.25	6
2007	KS	BG	ES01	25.32	30.79	0.07	32
2007	KS	BG	NM01	25.32	31.71	0.1	1.2
2007	KS	BG	NM02	25.32	38.21	0.1	1.2
2007	KS	BG	NM03	25.32	44.72	0.1	1.2
2007	KS	BG	NM04	25.32	51.22	0.1	1.2
2007	KS	BG	NM05	25.32	57.72	0.1	1.2
2008	KS	BG	ES01	25.32	30.67	0.07	32
2008	KS	BG	NM01	25.32	31.59	0.1	1.2
2008	KS	BG	NM02	25.32	38.07	0.1	1.2
2008	KS	BG	NM03	25.32	44.55	0.1	1.2
2008	KS	BG	NM04	25.32	51.02	0.1	1.2
2008	KS	BG	NM05	25.32	57.5	0.1	1.2
2009	KS	BG	ES01	25.32	30.54	0.07	32
2009	KS	BG	NM01	25.32	31.46	0.1	1.2
2009	KS	BG	NM02	25.32	37.91	0.1	1.2
2009	KS	BG	NM03	25.32	44.37	0.1	1.2
2009	KS	BG	NM04	25.32	50.81	0.1	1.2
2009	KS	BG	NM05	25.32	57.27	0.1	1.2
2010	KS	BG	ES01	25.32	30.42	0.07	32
2010	KS	BG	NM01	25.32	31.34	0.1	1.2
2010	KS	BG	NM02	25.32	37.76	0.1	1.2
2010	KS	BG	NM03	25.32	44.19	0.1	1.2
2010	KS	BG	NM04	25.32	50.61	0.1	1.2
2010	KS	BG	NM05	25.32	57.03	0.1	1.2
2015	KS	BG	ES01	25.32	29.82	0.07	32
2015	KS	BG	NM01	25.32	30.71	0.1	1.2
2015	KS	BG	NM02	25.32	37.01	0.1	1.2
2015	KS	BG	NM03	25.32	43.31	0.1	1.2
2015	KS	BG	NM04	25.32	49.61	0.1	1.2
2015	KS	BG	NM05	25.32	55.91	0.1	1.2
2020	KS	BG	ES01	25.32	29.23	0.07	32
2020	KS	BG	NM01	25.32	30.11	0.1	1.2
2020	KS	BG	NM02	25.32	36.27	0.1	1.2
2020	KS	BG	NM03	25.32	42.45	0.1	1.2
2020	KS	BG	NM04	25.32	48.63	0.1	1.2
2020	KS	BG	NM05	25.32	54.79	0.1	1.2
2025	KS	BG	ES01	25.32	28.65	0.07	32
2025	KS	BG	NM01	25.32	29.51	0.1	1.2
2025	KS	BG	NM02	25.32	35.56	0.1	1.2
2025	KS	BG	NM03	25.32	41.6	0.1	1.2
2025	KS	BG	NM04	25.32	47.66	0.1	1.2
2025	KS	BG	NM05	25.32	53.71	0.1	1.2

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	KS	BG	ES01	25.32	28.08	0.07	32
2035	KS	BG	NM01	25.32	28.93	0.1	1.2
2035	KS	BG	NM02	25.32	34.85	0.1	1.2
2035	KS	BG	NM03	25.32	40.78	0.1	1.2
2035	KS	BG	NM04	25.32	46.71	0.1	1.2
2035	KS	BG	NM05	25.32	52.64	0.1	1.2
2007	KW	BD	NM01	24.23	42.54	0.5	105
2007	KW	BD	NM02	24.23	48.73	0.5	105
2007	KW	BE	EU01	24.45	23.4	0.035	0.22
2007	KW	BE	ES02	24.45	25.75	0	0.004
2007	KW	BE	NM01	24.45	30.64	0.5	30
2007	KW	BE	NM02	24.45	31.28	0.5	30
2007	KW	BE	NM03	24.45	31.9	0.5	30
2007	KW	BE	NM04	24.45	32.54	0.5	30
2007	KW	BE	NM05	24.45	33.16	0.5	30
2007	KW	BE	NM06	24.45	33.8	0.5	30
2007	KW	BE	NM07	24.45	34.42	0.5	30
2007	KW	BE	NM08	24.45	35.06	0.5	30
2007	KW	BE	NM09	24.45	35.68	0.5	30
2007	KW	BE	NM10	24.45	36.32	0.5	30
2007	KW	BE	NM11	24.45	36.94	0.5	30
2007	KW	BE	NM12	24.45	37.58	0.5	30
2007	KW	BE	NM13	24.45	38.2	0.5	30
2007	KW	BE	NM14	24.45	38.84	0.5	30
2007	KW	BE	NM15	24.45	39.47	0.5	30
2007	KW	BE	NM16	24.45	40.1	0.5	30
2007	KW	BE	NM17	24.45	40.73	0.5	30
2007	KW	BE	NM18	24.45	41.37	0.5	30
2007	KW	BE	NM19	24.45	41.99	0.5	30
2007	KW	BE	NM20	24.45	42.63	0.5	30
2007	KW	BG	NM01	23.93	18.95	3	180
2007	KW	BG	NM02	23.93	23.34	3	180
2007	KW	BG	EU01	23.93	23.4	5.219	56.296
2007	KW	BG	ES02	23.93	25.75	1.089	13.249
2007	KW	BG	NM03	23.93	27.72	3	180
2007	KW	BG	NM04	23.93	32.1	3	180
2007	KW	BG	NM05	23.93	36.5	3	180
2007	KW	BG	NM06	23.93	40.88	3	180
2007	KW	BG	NM07	23.93	45.27	3	180
2007	KW	BH	EU01	22.84	23.4	14.476	174.406
2007	KW	BH	NM01	22.84	23.79	2	240
2007	KW	BH	NM02	22.84	24.36	2	240
2007	KW	BH	NM03	22.84	24.93	2	240
2007	KW	BH	NM04	22.84	25.48	2	240
2007	KW	BH	ES02	22.84	25.75	3.86	46.975
2007	KW	BH	NM05	22.84	26.05	2	240
2007	KW	BH	NM06	22.84	26.61	2	240
2007	KW	BH	NM07	22.84	27.18	2	240
2007	KW	BH	NM08	22.84	27.75	2	240
2007	KW	BH	NM09	22.84	28.3	2	240
2007	KW	BH	NM10	22.84	28.87	2	240
2007	KW	BH	NM11	22.84	29.44	2	240
2007	KW	BH	NM12	22.84	30	2	240
2007	KW	BH	NM13	22.84	30.57	2	240
2007	KW	BH	NM14	22.84	31.14	2	240
2008	KW	BD	NM01	24.23	42.37	0.5	105
2008	KW	BD	NM02	24.23	48.53	0.5	105
2008	KW	BE	EU01	24.45	23.3	0.035	0.22
2008	KW	BE	ES02	24.45	25.64	0	0.004
2008	KW	BE	NM01	24.45	30.52	0.5	30
2008	KW	BE	NM02	24.45	31.16	0.5	30
2008	KW	BE	NM03	24.45	31.78	0.5	30
2008	KW	BE	NM04	24.45	32.42	0.5	30
2008	KW	BE	NM05	24.45	33.03	0.5	30
2008	KW	BE	NM06	24.45	33.67	0.5	30
2008	KW	BE	NM07	24.45	34.29	0.5	30
2008	KW	BE	NM08	24.45	34.93	0.5	30
2008	KW	BE	NM09	24.45	35.55	0.5	30
2008	KW	BE	NM10	24.45	36.17	0.5	30
2008	KW	BE	NM11	24.45	36.8	0.5	30
2008	KW	BE	NM12	24.45	37.43	0.5	30
2008	KW	BE	NM13	24.45	38.06	0.5	30
2008	KW	BE	NM14	24.45	38.68	0.5	30
2008	KW	BE	NM15	24.45	39.31	0.5	30
2008	KW	BE	NM16	24.45	39.94	0.5	30
2008	KW	BE	NM17	24.45	40.57	0.5	30
2008	KW	BE	NM18	24.45	41.2	0.5	30

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	KW	BE	NM19	24.45	41.83	0.5	30
2008	KW	BE	NM20	24.45	42.45	0.5	30
2008	KW	BG	NM01	23.93	18.87	3	180
2008	KW	BG	NM02	23.93	23.24	3	180
2008	KW	BG	EU01	23.93	23.3	5.219	56.296
2008	KW	BG	ES02	23.93	25.64	1.089	13.249
2008	KW	BG	NM03	23.93	27.61	3	180
2008	KW	BG	NM04	23.93	31.98	3	180
2008	KW	BG	NM05	23.93	36.35	3	180
2008	KW	BG	NM06	23.93	40.71	3	180
2008	KW	BG	NM07	23.93	45.08	3	180
2008	KW	BH	EU01	22.84	23.3	14.476	174.406
2008	KW	BH	NM01	22.84	23.7	2	240
2008	KW	BH	NM02	22.84	24.26	2	240
2008	KW	BH	NM03	22.84	24.83	2	240
2008	KW	BH	NM04	22.84	25.38	2	240
2008	KW	BH	ES02	22.84	25.64	3.86	46.975
2008	KW	BH	NM05	22.84	25.94	2	240
2008	KW	BH	NM06	22.84	26.51	2	240
2008	KW	BH	NM07	22.84	27.07	2	240
2008	KW	BH	NM08	22.84	27.63	2	240
2008	KW	BH	NM09	22.84	28.19	2	240
2008	KW	BH	NM10	22.84	28.76	2	240
2008	KW	BH	NM11	22.84	29.32	2	240
2008	KW	BH	NM12	22.84	29.89	2	240
2008	KW	BH	NM13	22.84	30.44	2	240
2008	KW	BH	NM14	22.84	31	2	240
2009	KW	BD	NM01	24.23	42.2	0.5	105
2009	KW	BD	NM02	24.23	48.34	0.5	105
2009	KW	BE	EU01	24.45	23.21	0.035	0.22
2009	KW	BE	ES02	24.45	25.54	0	0.004
2009	KW	BE	NM01	24.45	30.4	0.5	30
2009	KW	BE	NM02	24.45	31.03	0.5	30
2009	KW	BE	NM03	24.45	31.65	0.5	30
2009	KW	BE	NM04	24.45	32.28	0.5	30
2009	KW	BE	NM05	24.45	32.91	0.5	30
2009	KW	BE	NM06	24.45	33.53	0.5	30
2009	KW	BE	NM07	24.45	34.16	0.5	30
2009	KW	BE	NM08	24.45	34.78	0.5	30
2009	KW	BE	NM09	24.45	35.4	0.5	30
2009	KW	BE	NM10	24.45	36.03	0.5	30
2009	KW	BE	NM11	24.45	36.65	0.5	30
2009	KW	BE	NM12	24.45	37.28	0.5	30
2009	KW	BE	NM13	24.45	37.9	0.5	30
2009	KW	BE	NM14	24.45	38.54	0.5	30
2009	KW	BE	NM15	24.45	39.15	0.5	30
2009	KW	BE	NM16	24.45	39.79	0.5	30
2009	KW	BE	NM17	24.45	40.4	0.5	30
2009	KW	BE	NM18	24.45	41.03	0.5	30
2009	KW	BE	NM19	24.45	41.66	0.5	30
2009	KW	BE	NM20	24.45	42.28	0.5	30
2009	KW	BG	NM01	23.93	18.81	3	180
2009	KW	BG	NM02	23.93	23.15	3	180
2009	KW	BG	EU01	23.93	23.21	5.219	56.296
2009	KW	BG	ES02	23.93	25.54	1.089	13.249
2009	KW	BG	NM03	23.93	27.5	3	180
2009	KW	BG	NM04	23.93	31.85	3	180
2009	KW	BG	NM05	23.93	36.21	3	180
2009	KW	BG	NM06	23.93	40.55	3	180
2009	KW	BG	NM07	23.93	44.9	3	180
2009	KW	BH	EU01	22.84	23.21	14.476	174.406
2009	KW	BH	NM01	22.84	23.6	2	240
2009	KW	BH	NM02	22.84	24.16	2	240
2009	KW	BH	NM03	22.84	24.73	2	240
2009	KW	BH	NM04	22.84	25.28	2	240
2009	KW	BH	ES02	22.84	25.54	3.86	46.975
2009	KW	BH	NM05	22.84	25.84	2	240
2009	KW	BH	NM06	22.84	26.4	2	240
2009	KW	BH	NM07	22.84	26.97	2	240
2009	KW	BH	NM08	22.84	27.52	2	240
2009	KW	BH	NM09	22.84	28.08	2	240
2009	KW	BH	NM10	22.84	28.64	2	240
2009	KW	BH	NM11	22.84	29.21	2	240
2009	KW	BH	NM12	22.84	29.76	2	240
2009	KW	BH	NM13	22.84	30.32	2	240
2009	KW	BH	NM14	22.84	30.88	2	240
2010	KW	BD	NM01	24.23	42.04	0.5	105

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	KW	BD	NM02	24.23	48.14	0.5	105
2010	KW	BE	EU01	24.45	23.12	0.035	0.22
2010	KW	BE	ES02	24.45	25.44	0	0.004
2010	KW	BE	NM01	24.45	30.28	0.5	30
2010	KW	BE	NM02	24.45	30.91	0.5	30
2010	KW	BE	NM03	24.45	31.53	0.5	30
2010	KW	BE	NM04	24.45	32.15	0.5	30
2010	KW	BE	NM05	24.45	32.77	0.5	30
2010	KW	BE	NM06	24.45	33.4	0.5	30
2010	KW	BE	NM07	24.45	34.01	0.5	30
2010	KW	BE	NM08	24.45	34.65	0.5	30
2010	KW	BE	NM09	24.45	35.26	0.5	30
2010	KW	BE	NM10	24.45	35.88	0.5	30
2010	KW	BE	NM11	24.45	36.51	0.5	30
2010	KW	BE	NM12	24.45	37.13	0.5	30
2010	KW	BE	NM13	24.45	37.75	0.5	30
2010	KW	BE	NM14	24.45	38.38	0.5	30
2010	KW	BE	NM15	24.45	38.99	0.5	30
2010	KW	BE	NM16	24.45	39.62	0.5	30
2010	KW	BE	NM17	24.45	40.24	0.5	30
2010	KW	BE	NM18	24.45	40.87	0.5	30
2010	KW	BE	NM19	24.45	41.49	0.5	30
2010	KW	BE	NM20	24.45	42.12	0.5	30
2010	KW	BG	NM01	23.93	18.73	3	180
2010	KW	BG	NM02	23.93	23.06	3	180
2010	KW	BG	EU01	23.93	23.12	5.219	56.296
2010	KW	BG	ES02	23.93	25.44	1.089	13.249
2010	KW	BG	NM03	23.93	27.39	3	180
2010	KW	BG	NM04	23.93	31.73	3	180
2010	KW	BG	NM05	23.93	36.06	3	180
2010	KW	BG	NM06	23.93	40.39	3	180
2010	KW	BG	NM07	23.93	44.72	3	180
2010	KW	BH	EU01	22.84	23.12	14.476	174.406
2010	KW	BH	NM01	22.84	23.51	2	240
2010	KW	BH	NM02	22.84	24.07	2	240
2010	KW	BH	NM03	22.84	24.62	2	240
2010	KW	BH	NM04	22.84	25.18	2	240
2010	KW	BH	ES02	22.84	25.44	3.86	46.975
2010	KW	BH	NM05	22.84	25.74	2	240
2010	KW	BH	NM06	22.84	26.3	2	240
2010	KW	BH	NM07	22.84	26.85	2	240
2010	KW	BH	NM08	22.84	27.41	2	240
2010	KW	BH	NM09	22.84	27.97	2	240
2010	KW	BH	NM10	22.84	28.53	2	240
2010	KW	BH	NM11	22.84	29.08	2	240
2010	KW	BH	NM12	22.84	29.64	2	240
2010	KW	BH	NM13	22.84	30.2	2	240
2010	KW	BH	NM14	22.84	30.76	2	240
2015	KW	BD	NM01	24.23	41.2	0.5	105
2015	KW	BD	NM02	24.23	47.19	0.5	105
2015	KW	BE	EU01	24.45	22.65	0.035	0.22
2015	KW	BE	ES02	24.45	24.94	0	0.004
2015	KW	BE	NM01	24.45	29.67	0.5	30
2015	KW	BE	NM02	24.45	30.3	0.5	30
2015	KW	BE	NM03	24.45	30.9	0.5	30
2015	KW	BE	NM04	24.45	31.51	0.5	30
2015	KW	BE	NM05	24.45	32.12	0.5	30
2015	KW	BE	NM06	24.45	32.74	0.5	30
2015	KW	BE	NM07	24.45	33.34	0.5	30
2015	KW	BE	NM08	24.45	33.96	0.5	30
2015	KW	BE	NM09	24.45	34.56	0.5	30
2015	KW	BE	NM10	24.45	35.18	0.5	30
2015	KW	BE	NM11	24.45	35.78	0.5	30
2015	KW	BE	NM12	24.45	36.4	0.5	30
2015	KW	BE	NM13	24.45	37	0.5	30
2015	KW	BE	NM14	24.45	37.61	0.5	30
2015	KW	BE	NM15	24.45	38.23	0.5	30
2015	KW	BE	NM16	24.45	38.84	0.5	30
2015	KW	BE	NM17	24.45	39.44	0.5	30
2015	KW	BE	NM18	24.45	40.05	0.5	30
2015	KW	BE	NM19	24.45	40.67	0.5	30
2015	KW	BE	NM20	24.45	41.28	0.5	30
2015	KW	BG	NM01	23.93	18.36	3	180
2015	KW	BG	NM02	23.93	22.6	3	180
2015	KW	BG	EU01	23.93	22.65	5.219	56.296
2015	KW	BG	ES02	23.93	24.94	1.089	13.249
2015	KW	BG	NM03	23.93	26.84	3	180

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	KW	BG	NM04	23.93	31.09	3	180
2015	KW	BG	NM05	23.93	35.34	3	180
2015	KW	BG	NM06	23.93	39.59	3	180
2015	KW	BG	NM07	23.93	43.83	3	180
2015	KW	BH	EU01	22.84	22.65	14.476	174.406
2015	KW	BH	NM01	22.84	23.04	2	240
2015	KW	BH	NM02	22.84	23.59	2	240
2015	KW	BH	NM03	22.84	24.13	2	240
2015	KW	BH	NM04	22.84	24.68	2	240
2015	KW	BH	ES02	22.84	24.94	3.86	46.975
2015	KW	BH	NM05	22.84	25.23	2	240
2015	KW	BH	NM06	22.84	25.77	2	240
2015	KW	BH	NM07	22.84	26.32	2	240
2015	KW	BH	NM08	22.84	26.87	2	240
2015	KW	BH	NM09	22.84	27.41	2	240
2015	KW	BH	NM10	22.84	27.96	2	240
2015	KW	BH	NM11	22.84	28.5	2	240
2015	KW	BH	NM12	22.84	29.05	2	240
2015	KW	BH	NM13	22.84	29.6	2	240
2015	KW	BH	NM14	22.84	30.14	2	240
2020	KW	BD	NM01	24.23	40.39	0.5	105
2020	KW	BD	NM02	24.23	46.25	0.5	105
2020	KW	BE	EU01	24.45	22.21	0.035	0.22
2020	KW	BE	ES02	24.45	24.44	0	0.004
2020	KW	BE	NM01	24.45	29.1	0.5	30
2020	KW	BE	NM02	24.45	29.7	0.5	30
2020	KW	BE	NM03	24.45	30.29	0.5	30
2020	KW	BE	NM04	24.45	30.89	0.5	30
2020	KW	BE	NM05	24.45	31.48	0.5	30
2020	KW	BE	NM06	24.45	32.08	0.5	30
2020	KW	BE	NM07	24.45	32.68	0.5	30
2020	KW	BE	NM08	24.45	33.29	0.5	30
2020	KW	BE	NM09	24.45	33.88	0.5	30
2020	KW	BE	NM10	24.45	34.48	0.5	30
2020	KW	BE	NM11	24.45	35.07	0.5	30
2020	KW	BE	NM12	24.45	35.67	0.5	30
2020	KW	BE	NM13	24.45	36.26	0.5	30
2020	KW	BE	NM14	24.45	36.88	0.5	30
2020	KW	BE	NM15	24.45	37.47	0.5	30
2020	KW	BE	NM16	24.45	38.07	0.5	30
2020	KW	BE	NM17	24.45	38.66	0.5	30
2020	KW	BE	NM18	24.45	39.26	0.5	30
2020	KW	BE	NM19	24.45	39.85	0.5	30
2020	KW	BE	NM20	24.45	40.45	0.5	30
2020	KW	BG	NM01	23.93	17.99	3	180
2020	KW	BG	NM02	23.93	22.15	3	180
2020	KW	BG	EU01	23.93	22.21	5.219	56.296
2020	KW	BG	ES02	23.93	24.44	1.089	13.249
2020	KW	BG	NM03	23.93	26.32	3	180
2020	KW	BG	NM04	23.93	30.48	3	180
2020	KW	BG	NM05	23.93	34.65	3	180
2020	KW	BG	NM06	23.93	38.8	3	180
2020	KW	BG	NM07	23.93	42.96	3	180
2020	KW	BH	EU01	22.84	22.21	14.476	174.406
2020	KW	BH	NM01	22.84	22.58	2	240
2020	KW	BH	NM02	22.84	23.12	2	240
2020	KW	BH	NM03	22.84	23.66	2	240
2020	KW	BH	NM04	22.84	24.19	2	240
2020	KW	BH	ES02	22.84	24.44	3.86	46.975
2020	KW	BH	NM05	22.84	24.73	2	240
2020	KW	BH	NM06	22.84	25.26	2	240
2020	KW	BH	NM07	22.84	25.8	2	240
2020	KW	BH	NM08	22.84	26.33	2	240
2020	KW	BH	NM09	22.84	26.87	2	240
2020	KW	BH	NM10	22.84	27.41	2	240
2020	KW	BH	NM11	22.84	27.95	2	240
2020	KW	BH	NM12	22.84	28.48	2	240
2020	KW	BH	NM13	22.84	29.02	2	240
2020	KW	BH	NM14	22.84	29.55	2	240
2025	KW	BD	NM01	24.23	39.59	0.5	105
2025	KW	BD	NM02	24.23	45.33	0.5	105
2025	KW	BE	EU01	24.45	21.77	0.035	0.22
2025	KW	BE	ES02	24.45	23.96	0	0.004
2025	KW	BE	NM01	24.45	28.52	0.5	30
2025	KW	BE	NM02	24.45	29.11	0.5	30
2025	KW	BE	NM03	24.45	29.69	0.5	30
2025	KW	BE	NM04	24.45	30.28	0.5	30

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	KW	BE	NM05	24.45	30.86	0.5	30
2025	KW	BE	NM06	24.45	31.45	0.5	30
2025	KW	BE	NM07	24.45	32.03	0.5	30
2025	KW	BE	NM08	24.45	32.62	0.5	30
2025	KW	BE	NM09	24.45	33.21	0.5	30
2025	KW	BE	NM10	24.45	33.8	0.5	30
2025	KW	BE	NM11	24.45	34.38	0.5	30
2025	KW	BE	NM12	24.45	34.97	0.5	30
2025	KW	BE	NM13	24.45	35.55	0.5	30
2025	KW	BE	NM14	24.45	36.14	0.5	30
2025	KW	BE	NM15	24.45	36.72	0.5	30
2025	KW	BE	NM16	24.45	37.31	0.5	30
2025	KW	BE	NM17	24.45	37.89	0.5	30
2025	KW	BE	NM18	24.45	38.48	0.5	30
2025	KW	BE	NM19	24.45	39.06	0.5	30
2025	KW	BE	NM20	24.45	39.65	0.5	30
2025	KW	BG	NM01	23.93	17.64	3	180
2025	KW	BG	NM02	23.93	21.72	3	180
2025	KW	BG	EU01	23.93	21.77	5.219	56.296
2025	KW	BG	ES02	23.93	23.96	1.089	13.249
2025	KW	BG	NM03	23.93	25.8	3	180
2025	KW	BG	NM04	23.93	29.88	3	180
2025	KW	BG	NM05	23.93	33.96	3	180
2025	KW	BG	NM06	23.93	38.04	3	180
2025	KW	BG	NM07	23.93	42.12	3	180
2025	KW	BH	EU01	22.84	21.77	14.476	174.406
2025	KW	BH	NM01	22.84	22.14	2	240
2025	KW	BH	NM02	22.84	22.66	2	240
2025	KW	BH	NM03	22.84	23.19	2	240
2025	KW	BH	NM04	22.84	23.71	2	240
2025	KW	BH	ES02	22.84	23.96	3.86	46.975
2025	KW	BH	NM05	22.84	24.23	2	240
2025	KW	BH	NM06	22.84	24.76	2	240
2025	KW	BH	NM07	22.84	25.28	2	240
2025	KW	BH	NM08	22.84	25.82	2	240
2025	KW	BH	NM09	22.84	26.34	2	240
2025	KW	BH	NM10	22.84	26.87	2	240
2025	KW	BH	NM11	22.84	27.39	2	240
2025	KW	BH	NM12	22.84	27.91	2	240
2025	KW	BH	NM13	22.84	28.44	2	240
2025	KW	BH	NM14	22.84	28.96	2	240
2035	KW	BD	NM01	24.23	38.79	0.5	105
2035	KW	BD	NM02	24.23	44.43	0.5	105
2035	KW	BE	EU01	24.45	21.34	0.035	0.22
2035	KW	BE	ES02	24.45	23.48	0	0.004
2035	KW	BE	NM01	24.45	27.95	0.5	30
2035	KW	BE	NM02	24.45	28.53	0.5	30
2035	KW	BE	NM03	24.45	29.1	0.5	30
2035	KW	BE	NM04	24.45	29.67	0.5	30
2035	KW	BE	NM05	24.45	30.24	0.5	30
2035	KW	BE	NM06	24.45	30.82	0.5	30
2035	KW	BE	NM07	24.45	31.39	0.5	30
2035	KW	BE	NM08	24.45	31.97	0.5	30
2035	KW	BE	NM09	24.45	32.54	0.5	30
2035	KW	BE	NM10	24.45	33.12	0.5	30
2035	KW	BE	NM11	24.45	33.7	0.5	30
2035	KW	BE	NM12	24.45	34.27	0.5	30
2035	KW	BE	NM13	24.45	34.85	0.5	30
2035	KW	BE	NM14	24.45	35.43	0.5	30
2035	KW	BE	NM15	24.45	36	0.5	30
2035	KW	BE	NM16	24.45	36.58	0.5	30
2035	KW	BE	NM17	24.45	37.14	0.5	30
2035	KW	BE	NM18	24.45	37.72	0.5	30
2035	KW	BE	NM19	24.45	38.29	0.5	30
2035	KW	BE	NM20	24.45	38.87	0.5	30
2035	KW	BG	NM01	23.93	17.28	3	180
2035	KW	BG	NM02	23.93	21.28	3	180
2035	KW	BG	EU01	23.93	21.34	5.219	56.296
2035	KW	BG	ES02	23.93	23.48	1.089	13.249
2035	KW	BG	NM03	23.93	25.28	3	180
2035	KW	BG	NM04	23.93	29.28	3	180
2035	KW	BG	NM05	23.93	33.28	3	180
2035	KW	BG	NM06	23.93	37.28	3	180
2035	KW	BG	NM07	23.93	41.28	3	180
2035	KW	BH	EU01	22.84	21.34	14.476	174.406
2035	KW	BH	NM01	22.84	21.69	2	240
2035	KW	BH	NM02	22.84	22.21	2	240

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	KW	BH	NM03	22.84	22.73	2	240
2035	KW	BH	NM04	22.84	23.24	2	240
2035	KW	BH	ES02	22.84	23.48	3.86	46.975
2035	KW	BH	NM05	22.84	23.76	2	240
2035	KW	BH	NM06	22.84	24.27	2	240
2035	KW	BH	NM07	22.84	24.78	2	240
2035	KW	BH	NM08	22.84	25.3	2	240
2035	KW	BH	NM09	22.84	25.82	2	240
2035	KW	BH	NM10	22.84	26.33	2	240
2035	KW	BH	NM11	22.84	26.84	2	240
2035	KW	BH	NM12	22.84	27.36	2	240
2035	KW	BH	NM13	22.84	27.88	2	240
2035	KW	BH	NM14	22.84	28.39	2	240
2007	LA	LE	ES01	14.09	14.54	0.26	8.095
2007	LA	LE	ES02	14.09	14.95	1.43	44.405
2007	LA	LE	NM01	14.09	15.34	5	125
2007	LA	LE	NM02	14.09	17.26	5	125
2007	LA	LE	NM03	14.09	19.17	5	125
2007	LA	LE	NM04	14.09	21.09	5	125
2007	LA	LE	NM05	14.09	23.01	5	125
2008	LA	LE	ES01	14.09	14.48	0.26	8.095
2008	LA	LE	ES02	14.09	14.89	1.43	44.405
2008	LA	LE	NM01	14.09	15.28	5	125
2008	LA	LE	NM02	14.09	17.19	5	125
2008	LA	LE	NM03	14.09	19.1	5	125
2008	LA	LE	NM04	14.09	21	5	125
2008	LA	LE	NM05	14.09	22.91	5	125
2009	LA	LE	ES01	14.09	14.42	0.26	8.095
2009	LA	LE	ES02	14.09	14.84	1.43	44.405
2009	LA	LE	NM01	14.09	15.22	5	125
2009	LA	LE	NM02	14.09	17.12	5	125
2009	LA	LE	NM03	14.09	19.02	5	125
2009	LA	LE	NM04	14.09	20.92	5	125
2009	LA	LE	NM05	14.09	22.82	5	125
2010	LA	LE	ES01	14.09	14.37	0.26	8.095
2010	LA	LE	ES02	14.09	14.77	1.43	44.405
2010	LA	LE	NM01	14.09	15.16	5	125
2010	LA	LE	NM02	14.09	17.06	5	125
2010	LA	LE	NM03	14.09	18.95	5	125
2010	LA	LE	NM04	14.09	20.83	5	125
2010	LA	LE	NM05	14.09	22.73	5	125
2015	LA	LE	ES01	14.09	14.08	0	8.095
2015	LA	LE	ES02	14.09	14.48	1.43	44.405
2015	LA	LE	NM01	14.09	14.86	5	125
2015	LA	LE	NM02	14.09	16.71	5	125
2015	LA	LE	NM03	14.09	18.57	5	125
2015	LA	LE	NM04	14.09	20.42	5	125
2015	LA	LE	NM05	14.09	22.28	5	125
2020	LA	LE	ES01	14.09	13.8	0	8.095
2020	LA	LE	ES02	14.09	14.19	1.43	44.405
2020	LA	LE	NM01	14.09	14.57	5	125
2020	LA	LE	NM02	14.09	16.39	5	125
2020	LA	LE	NM03	14.09	18.2	5	125
2020	LA	LE	NM04	14.09	20.02	5	125
2020	LA	LE	NM05	14.09	21.84	5	125
2025	LA	LE	ES01	14.09	13.53	0	8.095
2025	LA	LE	ES02	14.09	13.91	1.43	44.405
2025	LA	LE	NM01	14.09	14.28	5	125
2025	LA	LE	NM02	14.09	16.05	5	125
2025	LA	LE	NM03	14.09	17.84	5	125
2025	LA	LE	NM04	14.09	19.62	5	125
2025	LA	LE	NM05	14.09	21.4	5	125
2035	LA	LE	ES01	14.09	13.25	0	8.095
2035	LA	LE	ES02	14.09	13.63	1.43	44.405
2035	LA	LE	NM01	14.09	13.99	5	125
2035	LA	LE	NM02	14.09	15.74	5	125
2035	LA	LE	NM03	14.09	17.49	5	125
2035	LA	LE	NM04	14.09	19.23	5	125
2035	LA	LE	NM05	14.09	20.98	5	125
2007	MD	BB	NM01	24.64	31.56	0.25	3.75
2007	MD	BB	NM02	24.64	36.14	0.25	3.75
2007	MD	BB	NM03	24.64	40.73	0.25	3.75
2007	MD	BB	NM04	24.64	45.31	0.25	3.75
2007	MD	BB	NM05	24.64	49.9	0.25	3.75
2007	MD	BD	NM01	26.32	31.36	0.33	4.95
2007	MD	BD	NM02	26.32	36	0.33	4.95
2007	MD	BD	NM03	26.32	40.63	0.33	4.95

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	MD	BD	NM04	26.32	45.27	0.33	4.95
2007	MD	BD	NM05	26.32	49.91	0.33	4.95
2007	MD	BE	EU01	24.85	20.87	2.36	12.328
2007	MD	BE	ES02	24.85	23.98	0.013	0.336
2007	MD	BE	ES03	24.85	24.7	0.401	10.767
2007	MD	BE	NM01	24.85	29.13	0.33	4.95
2007	MD	BE	ES04	24.85	30.08	0.476	12.786
2007	MD	BE	EU05	24.85	31.4	0.105	0.547
2007	MD	BE	NM02	24.85	33.35	0.33	4.95
2007	MD	BE	NM03	24.85	37.59	0.33	4.95
2007	MD	BE	ES06	24.85	37.81	0.013	0.336
2007	MD	BE	NM04	24.85	41.83	0.33	4.95
2007	MD	BE	NM05	24.85	46.06	0.33	4.95
2007	MD	BG	EU01	23.26	20.87	0.274	1.43
2007	MD	BG	ES02	23.26	24.7	0.08	1.872
2007	MD	BG	NM01	23.26	28.19	0.4	6
2007	MD	BG	NM02	23.26	30.42	0.4	6
2007	MD	BG	NM03	23.26	32.67	0.4	6
2007	MD	BG	NM04	23.26	34.91	0.4	6
2007	MD	BG	NM05	23.26	37.15	0.4	6
2007	MD	BG	ES03	23.26	37.81	0.013	0.312
2007	MD	BG	NM06	23.26	39.4	0.4	6
2007	MD	BG	NM07	23.26	41.64	0.4	6
2007	MD	BG	NM08	23.26	43.89	0.4	6
2007	MD	BG	NM09	23.26	46.12	0.4	6
2007	MD	BG	NM10	23.26	48.37	0.4	6
2008	MD	BB	NM01	24.64	31.42	0.25	3.75
2008	MD	BB	NM02	24.64	36	0.25	3.75
2008	MD	BB	NM03	24.64	40.57	0.25	3.75
2008	MD	BB	NM04	24.64	45.14	0.25	3.75
2008	MD	BB	NM05	24.64	49.71	0.25	3.75
2008	MD	BD	NM01	26.32	31.24	0.33	4.95
2008	MD	BD	NM02	26.32	35.85	0.33	4.95
2008	MD	BD	NM03	26.32	40.48	0.33	4.95
2008	MD	BD	NM04	26.32	45.09	0.33	4.95
2008	MD	BD	NM05	26.32	49.71	0.33	4.95
2008	MD	BE	EU01	24.85	20.79	2.36	12.328
2008	MD	BE	ES02	24.85	23.88	0.013	0.336
2008	MD	BE	ES03	24.85	24.6	0.401	10.767
2008	MD	BE	NM01	24.85	29.01	0.33	4.95
2008	MD	BE	ES04	24.85	29.95	0.476	12.786
2008	MD	BE	EU05	24.85	31.28	0.105	0.547
2008	MD	BE	NM02	24.85	33.23	0.33	4.95
2008	MD	BE	NM03	24.85	37.44	0.33	4.95
2008	MD	BE	ES06	24.85	37.66	0.013	0.336
2008	MD	BE	NM04	24.85	41.66	0.33	4.95
2008	MD	BE	NM05	24.85	45.87	0.33	4.95
2008	MD	BG	EU01	23.26	20.79	0.274	1.43
2008	MD	BG	ES02	23.26	24.6	0.08	1.872
2008	MD	BG	NM01	23.26	28.07	0.4	6
2008	MD	BG	NM02	23.26	30.3	0.4	6
2008	MD	BG	NM03	23.26	32.54	0.4	6
2008	MD	BG	NM04	23.26	34.77	0.4	6
2008	MD	BG	NM05	23.26	37.01	0.4	6
2008	MD	BG	ES03	23.26	37.66	0.013	0.312
2008	MD	BG	NM06	23.26	39.24	0.4	6
2008	MD	BG	NM07	23.26	41.47	0.4	6
2008	MD	BG	NM08	23.26	43.71	0.4	6
2008	MD	BG	NM09	23.26	45.94	0.4	6
2008	MD	BG	NM10	23.26	48.18	0.4	6
2009	MD	BB	NM01	24.64	31.3	0.25	3.75
2009	MD	BB	NM02	24.64	35.85	0.25	3.75
2009	MD	BB	NM03	24.64	40.4	0.25	3.75
2009	MD	BB	NM04	24.64	44.96	0.25	3.75
2009	MD	BB	NM05	24.64	49.51	0.25	3.75
2009	MD	BD	NM01	26.32	31.11	0.33	4.95
2009	MD	BD	NM02	26.32	35.72	0.33	4.95
2009	MD	BD	NM03	26.32	40.31	0.33	4.95
2009	MD	BD	NM04	26.32	44.91	0.33	4.95
2009	MD	BD	NM05	26.32	49.52	0.33	4.95
2009	MD	BE	EU01	24.85	20.7	2.36	12.328
2009	MD	BE	ES02	24.85	23.79	0.013	0.336
2009	MD	BE	ES03	24.85	24.5	0.401	10.767
2009	MD	BE	NM01	24.85	28.89	0.33	4.95
2009	MD	BE	ES04	24.85	29.84	0.476	12.786
2009	MD	BE	EU05	24.85	31.15	0.105	0.547
2009	MD	BE	NM02	24.85	33.1	0.33	4.95

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	MD	BE	NM03	24.85	37.29	0.33	4.95
2009	MD	BE	ES06	24.85	37.51	0.013	0.336
2009	MD	BE	NM04	24.85	41.49	0.33	4.95
2009	MD	BE	NM05	24.85	45.69	0.33	4.95
2009	MD	BG	EU01	23.26	20.7	0.274	1.43
2009	MD	BG	ES02	23.26	24.5	0.08	1.872
2009	MD	BG	NM01	23.26	27.96	0.4	6
2009	MD	BG	NM02	23.26	30.19	0.4	6
2009	MD	BG	NM03	23.26	32.42	0.4	6
2009	MD	BG	NM04	23.26	34.64	0.4	6
2009	MD	BG	NM05	23.26	36.87	0.4	6
2009	MD	BG	ES03	23.26	37.51	0.013	0.312
2009	MD	BG	NM06	23.26	39.08	0.4	6
2009	MD	BG	NM07	23.26	41.3	0.4	6
2009	MD	BG	NM08	23.26	43.53	0.4	6
2009	MD	BG	NM09	23.26	45.75	0.4	6
2009	MD	BG	NM10	23.26	47.98	0.4	6
2010	MD	BB	NM01	24.64	31.18	0.25	3.75
2010	MD	BB	NM02	24.64	35.71	0.25	3.75
2010	MD	BB	NM03	24.64	40.24	0.25	3.75
2010	MD	BB	NM04	24.64	44.77	0.25	3.75
2010	MD	BB	NM05	24.64	49.31	0.25	3.75
2010	MD	BD	NM01	26.32	30.99	0.33	4.95
2010	MD	BD	NM02	26.32	35.57	0.33	4.95
2010	MD	BD	NM03	26.32	40.15	0.33	4.95
2010	MD	BD	NM04	26.32	44.74	0.33	4.95
2010	MD	BD	NM05	26.32	49.32	0.33	4.95
2010	MD	BE	EU01	24.85	20.62	2.36	12.328
2010	MD	BE	ES02	24.85	23.69	0.013	0.336
2010	MD	BE	ES03	24.85	24.4	0.401	10.767
2010	MD	BE	NM01	24.85	28.77	0.33	4.95
2010	MD	BE	ES04	24.85	29.72	0.476	12.786
2010	MD	BE	EU05	24.85	31.02	0.105	0.547
2010	MD	BE	NM02	24.85	32.96	0.33	4.95
2010	MD	BE	NM03	24.85	37.14	0.33	4.95
2010	MD	BE	ES06	24.85	37.36	0.013	0.336
2010	MD	BE	NM04	24.85	41.32	0.33	4.95
2010	MD	BE	NM05	24.85	45.52	0.33	4.95
2010	MD	BG	EU01	23.26	20.62	0.274	1.43
2010	MD	BG	ES02	23.26	24.4	0.08	1.872
2010	MD	BG	NM01	23.26	27.85	0.4	6
2010	MD	BG	NM02	23.26	30.06	0.4	6
2010	MD	BG	NM03	23.26	32.28	0.4	6
2010	MD	BG	NM04	23.26	34.49	0.4	6
2010	MD	BG	NM05	23.26	36.72	0.4	6
2010	MD	BG	ES03	23.26	37.36	0.013	0.312
2010	MD	BG	NM06	23.26	38.93	0.4	6
2010	MD	BG	NM07	23.26	41.13	0.4	6
2010	MD	BG	NM08	23.26	43.36	0.4	6
2010	MD	BG	NM09	23.26	45.57	0.4	6
2010	MD	BG	NM10	23.26	47.79	0.4	6
2015	MD	BB	NM01	24.64	30.56	0.25	3.75
2015	MD	BB	NM02	24.64	35	0.25	3.75
2015	MD	BB	NM03	24.64	39.44	0.25	3.75
2015	MD	BB	NM04	24.64	43.89	0.25	3.75
2015	MD	BB	NM05	24.64	48.32	0.25	3.75
2015	MD	BD	NM01	26.32	30.38	0.33	4.95
2015	MD	BD	NM02	26.32	34.87	0.33	4.95
2015	MD	BD	NM03	26.32	39.35	0.33	4.95
2015	MD	BD	NM04	26.32	43.84	0.33	4.95
2015	MD	BD	NM05	26.32	48.34	0.33	4.95
2015	MD	BE	EU01	24.85	20.21	2.36	12.328
2015	MD	BE	ES02	24.85	23.22	0.013	0.336
2015	MD	BE	ES03	24.85	23.92	0.401	10.767
2015	MD	BE	NM01	24.85	28.2	0.33	4.95
2015	MD	BE	ES04	24.85	29.13	0.476	12.786
2015	MD	BE	EU05	24.85	30.41	0.105	0.547
2015	MD	BE	NM02	24.85	32.31	0.33	4.95
2015	MD	BE	NM03	24.85	36.41	0.33	4.95
2015	MD	BE	ES06	24.85	36.62	0.013	0.336
2015	MD	BE	NM04	24.85	40.51	0.33	4.95
2015	MD	BE	NM05	24.85	44.61	0.33	4.95
2015	MD	BG	EU01	23.26	20.21	0.274	1.43
2015	MD	BG	ES02	23.26	23.92	0.08	1.872
2015	MD	BG	NM01	23.26	27.3	0.4	6
2015	MD	BG	NM02	23.26	29.46	0.4	6
2015	MD	BG	NM03	23.26	31.64	0.4	6

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	MD	BG	NM04	23.26	33.81	0.4	6
2015	MD	BG	NM05	23.26	35.98	0.4	6
2015	MD	BG	ES03	23.26	36.62	0.013	0.312
2015	MD	BG	NM06	23.26	38.16	0.4	6
2015	MD	BG	NM07	23.26	40.32	0.4	6
2015	MD	BG	NM08	23.26	42.49	0.4	6
2015	MD	BG	NM09	23.26	44.67	0.4	6
2015	MD	BG	NM10	23.26	46.84	0.4	6
2020	MD	BB	NM01	24.64	29.95	0.25	3.75
2020	MD	BB	NM02	24.64	34.3	0.25	3.75
2020	MD	BB	NM03	24.64	38.66	0.25	3.75
2020	MD	BB	NM04	24.64	43.02	0.25	3.75
2020	MD	BB	NM05	24.64	47.37	0.25	3.75
2020	MD	BD	NM01	26.32	29.78	0.33	4.95
2020	MD	BD	NM02	26.32	34.17	0.33	4.95
2020	MD	BD	NM03	26.32	38.57	0.33	4.95
2020	MD	BD	NM04	26.32	42.97	0.33	4.95
2020	MD	BD	NM05	26.32	47.38	0.33	4.95
2020	MD	BE	EU01	24.85	19.81	2.36	12.328
2020	MD	BE	ES02	24.85	22.76	0.013	0.336
2020	MD	BE	ES03	24.85	23.44	0.401	10.767
2020	MD	BE	NM01	24.85	27.65	0.33	4.95
2020	MD	BE	ES04	24.85	28.55	0.476	12.786
2020	MD	BE	EU05	24.85	29.81	0.105	0.547
2020	MD	BE	NM02	24.85	31.67	0.33	4.95
2020	MD	BE	NM03	24.85	35.68	0.33	4.95
2020	MD	BE	ES06	24.85	35.88	0.013	0.336
2020	MD	BE	NM04	24.85	39.71	0.33	4.95
2020	MD	BE	NM05	24.85	43.72	0.33	4.95
2020	MD	BG	EU01	23.26	19.81	0.274	1.43
2020	MD	BG	ES02	23.26	23.44	0.08	1.872
2020	MD	BG	NM01	23.26	26.75	0.4	6
2020	MD	BG	NM02	23.26	28.88	0.4	6
2020	MD	BG	NM03	23.26	31.01	0.4	6
2020	MD	BG	NM04	23.26	33.14	0.4	6
2020	MD	BG	NM05	23.26	35.27	0.4	6
2020	MD	BG	ES03	23.26	35.88	0.013	0.312
2020	MD	BG	NM06	23.26	37.4	0.4	6
2020	MD	BG	NM07	23.26	39.52	0.4	6
2020	MD	BG	NM08	23.26	41.66	0.4	6
2020	MD	BG	NM09	23.26	43.78	0.4	6
2020	MD	BG	NM10	23.26	45.92	0.4	6
2025	MD	BB	NM01	24.64	29.36	0.25	3.75
2025	MD	BB	NM02	24.64	33.62	0.25	3.75
2025	MD	BB	NM03	24.64	37.89	0.25	3.75
2025	MD	BB	NM04	24.64	42.16	0.25	3.75
2025	MD	BB	NM05	24.64	46.43	0.25	3.75
2025	MD	BD	NM01	26.32	29.18	0.33	4.95
2025	MD	BD	NM02	26.32	33.5	0.33	4.95
2025	MD	BD	NM03	26.32	37.81	0.33	4.95
2025	MD	BD	NM04	26.32	42.13	0.33	4.95
2025	MD	BD	NM05	26.32	46.44	0.33	4.95
2025	MD	BE	EU01	24.85	19.42	2.36	12.328
2025	MD	BE	ES02	24.85	22.31	0.013	0.336
2025	MD	BE	ES03	24.85	22.99	0.401	10.767
2025	MD	BE	NM01	24.85	27.1	0.33	4.95
2025	MD	BE	ES04	24.85	27.98	0.476	12.786
2025	MD	BE	EU05	24.85	29.22	0.105	0.547
2025	MD	BE	NM02	24.85	31.03	0.33	4.95
2025	MD	BE	NM03	24.85	34.98	0.33	4.95
2025	MD	BE	ES06	24.85	35.18	0.013	0.336
2025	MD	BE	NM04	24.85	38.92	0.33	4.95
2025	MD	BE	NM05	24.85	42.85	0.33	4.95
2025	MD	BG	EU01	23.26	19.42	0.274	1.43
2025	MD	BG	ES02	23.26	22.99	0.08	1.872
2025	MD	BG	NM01	23.26	26.23	0.4	6
2025	MD	BG	NM02	23.26	28.3	0.4	6
2025	MD	BG	NM03	23.26	30.4	0.4	6
2025	MD	BG	NM04	23.26	32.48	0.4	6
2025	MD	BG	NM05	23.26	34.57	0.4	6
2025	MD	BG	ES03	23.26	35.18	0.013	0.312
2025	MD	BG	NM06	23.26	36.65	0.4	6
2025	MD	BG	NM07	23.26	38.74	0.4	6
2025	MD	BG	NM08	23.26	40.83	0.4	6
2025	MD	BG	NM09	23.26	42.91	0.4	6
2025	MD	BG	NM10	23.26	45	0.4	6
2035	MD	BB	NM01	24.64	28.77	0.25	3.75

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	MD	BB	NM02	24.64	32.96	0.25	3.75
2035	MD	BB	NM03	24.64	37.14	0.25	3.75
2035	MD	BB	NM04	24.64	41.32	0.25	3.75
2035	MD	BB	NM05	24.64	45.5	0.25	3.75
2035	MD	BD	NM01	26.32	28.6	0.33	4.95
2035	MD	BD	NM02	26.32	32.83	0.33	4.95
2035	MD	BD	NM03	26.32	37.05	0.33	4.95
2035	MD	BD	NM04	26.32	41.29	0.33	4.95
2035	MD	BD	NM05	26.32	45.52	0.33	4.95
2035	MD	BE	EU01	24.85	19.03	2.36	12.328
2035	MD	BE	ES02	24.85	21.87	0.013	0.336
2035	MD	BE	ES03	24.85	22.53	0.401	10.767
2035	MD	BE	NM01	24.85	26.56	0.33	4.95
2035	MD	BE	ES04	24.85	27.43	0.476	12.786
2035	MD	BE	EU05	24.85	28.64	0.105	0.547
2035	MD	BE	NM02	24.85	30.42	0.33	4.95
2035	MD	BE	NM03	24.85	34.28	0.33	4.95
2035	MD	BE	ES06	24.85	34.48	0.013	0.336
2035	MD	BE	NM04	24.85	38.15	0.33	4.95
2035	MD	BE	NM05	24.85	42	0.33	4.95
2035	MD	BG	EU01	23.26	19.03	0.274	1.43
2035	MD	BG	ES02	23.26	22.53	0.08	1.872
2035	MD	BG	NM01	23.26	25.71	0.4	6
2035	MD	BG	NM02	23.26	27.75	0.4	6
2035	MD	BG	NM03	23.26	29.8	0.4	6
2035	MD	BG	NM04	23.26	31.84	0.4	6
2035	MD	BG	NM05	23.26	33.89	0.4	6
2035	MD	BG	ES03	23.26	34.48	0.013	0.312
2035	MD	BG	NM06	23.26	35.93	0.4	6
2035	MD	BG	NM07	23.26	37.97	0.4	6
2035	MD	BG	NM08	23.26	40.02	0.4	6
2035	MD	BG	NM09	23.26	42.06	0.4	6
2035	MD	BG	NM10	23.26	44.11	0.4	6
2007	ME	LA	NM01	13.19	5.92	3	120
2007	ME	LA	NM02	13.19	6.59	3	120
2007	ME	LA	NM03	13.19	7.25	3	120
2007	ME	LA	NM04	13.19	7.91	3	120
2007	ME	LA	NM05	13.19	8.58	3	120
2007	ME	LA	NM06	13.19	9.24	3	120
2007	ME	LA	NM07	13.19	9.91	3	120
2007	ME	LA	NM08	13.19	10.58	3	120
2007	ME	LA	NM09	13.19	11.24	3	120
2007	ME	LA	NM10	13.19	11.91	3	120
2008	ME	LA	NM01	13.19	5.9	3	120
2008	ME	LA	NM02	13.19	6.55	3	120
2008	ME	LA	NM03	13.19	7.22	3	120
2008	ME	LA	NM04	13.19	7.88	3	120
2008	ME	LA	NM05	13.19	8.55	3	120
2008	ME	LA	NM06	13.19	9.21	3	120
2008	ME	LA	NM07	13.19	9.87	3	120
2008	ME	LA	NM08	13.19	10.53	3	120
2008	ME	LA	NM09	13.19	11.19	3	120
2008	ME	LA	NM10	13.19	11.86	3	120
2009	ME	LA	NM01	13.19	5.87	3	120
2009	ME	LA	NM02	13.19	6.53	3	120
2009	ME	LA	NM03	13.19	7.19	3	120
2009	ME	LA	NM04	13.19	7.85	3	120
2009	ME	LA	NM05	13.19	8.51	3	120
2009	ME	LA	NM06	13.19	9.17	3	120
2009	ME	LA	NM07	13.19	9.83	3	120
2009	ME	LA	NM08	13.19	10.49	3	120
2009	ME	LA	NM09	13.19	11.15	3	120
2009	ME	LA	NM10	13.19	11.82	3	120
2010	ME	LA	NM01	13.19	5.85	3	120
2010	ME	LA	NM02	13.19	6.5	3	120
2010	ME	LA	NM03	13.19	7.16	3	120
2010	ME	LA	NM04	13.19	7.81	3	120
2010	ME	LA	NM05	13.19	8.47	3	120
2010	ME	LA	NM06	13.19	9.13	3	120
2010	ME	LA	NM07	13.19	9.79	3	120
2010	ME	LA	NM08	13.19	10.45	3	120
2010	ME	LA	NM09	13.19	11.1	3	120
2010	ME	LA	NM10	13.19	11.76	3	120
2015	ME	LA	NM01	13.19	5.73	3	120
2015	ME	LA	NM02	13.19	6.38	3	120
2015	ME	LA	NM03	13.19	7.02	3	120
2015	ME	LA	NM04	13.19	7.67	3	120

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	ME	LA	NM05	13.19	8.3	3	120
2015	ME	LA	NM06	13.19	8.95	3	120
2015	ME	LA	NM07	13.19	9.6	3	120
2015	ME	LA	NM08	13.19	10.24	3	120
2015	ME	LA	NM09	13.19	10.89	3	120
2015	ME	LA	NM10	13.19	11.53	3	120
2020	ME	LA	NM01	13.19	5.62	3	120
2020	ME	LA	NM02	13.19	6.25	3	120
2020	ME	LA	NM03	13.19	6.88	3	120
2020	ME	LA	NM04	13.19	7.51	3	120
2020	ME	LA	NM05	13.19	8.15	3	120
2020	ME	LA	NM06	13.19	8.77	3	120
2020	ME	LA	NM07	13.19	9.41	3	120
2020	ME	LA	NM08	13.19	10.03	3	120
2020	ME	LA	NM09	13.19	10.67	3	120
2020	ME	LA	NM10	13.19	11.3	3	120
2025	ME	LA	NM01	13.19	5.51	3	120
2025	ME	LA	NM02	13.19	6.12	3	120
2025	ME	LA	NM03	13.19	6.74	3	120
2025	ME	LA	NM04	13.19	7.36	3	120
2025	ME	LA	NM05	13.19	7.98	3	120
2025	ME	LA	NM06	13.19	8.61	3	120
2025	ME	LA	NM07	13.19	9.22	3	120
2025	ME	LA	NM08	13.19	9.84	3	120
2025	ME	LA	NM09	13.19	10.46	3	120
2025	ME	LA	NM10	13.19	11.08	3	120
2035	ME	LA	NM01	13.19	5.4	3	120
2035	ME	LA	NM02	13.19	6.01	3	120
2035	ME	LA	NM03	13.19	6.61	3	120
2035	ME	LA	NM04	13.19	7.21	3	120
2035	ME	LA	NM05	13.19	7.83	3	120
2035	ME	LA	NM06	13.19	8.43	3	120
2035	ME	LA	NM07	13.19	9.04	3	120
2035	ME	LA	NM08	13.19	9.64	3	120
2035	ME	LA	NM09	13.19	10.26	3	120
2035	ME	LA	NM10	13.19	10.86	3	120
2007	MP	SA	ES01	18.9	4.17	3.995	46.326
2007	MP	SA	NM01	18.9	4.6	15	1200
2007	MP	SA	NM02	18.9	5.82	15	1200
2007	MP	SA	ES02	18.9	5.91	6.755	78.324
2007	MP	SB	ES01	18.54	4.07	6.966	80.769
2007	MP	SB	ES02	18.54	4.88	0.031	0.362
2007	MP	SB	ES03	18.54	6.25	3.753	43.519
2007	MP	SD	ES01	17.23	4.88	20.14	779.475
2007	MP	SD	NM01	17.23	5.47	15	1200
2007	MP	SD	NM02	17.23	6.23	15	1200
2007	MP	SD	NM03	17.23	6.99	15	1200
2007	MP	SD	NM04	17.23	7.75	15	1200
2008	MP	SA	ES01	18.9	4.16	3.995	46.326
2008	MP	SA	NM01	18.9	4.59	15	1200
2008	MP	SA	NM02	18.9	5.8	15	1200
2008	MP	SA	ES02	18.9	5.89	6.755	78.324
2008	MP	SB	ES01	18.54	4.06	6.966	80.769
2008	MP	SB	ES02	18.54	4.87	0.031	0.362
2008	MP	SB	ES03	18.54	6.23	3.753	43.519
2008	MP	SD	ES01	17.23	4.87	20.14	779.475
2008	MP	SD	NM01	17.23	5.45	15	1200
2008	MP	SD	NM02	17.23	6.21	15	1200
2008	MP	SD	NM03	17.23	6.96	15	1200
2008	MP	SD	NM04	17.23	7.71	15	1200
2009	MP	SA	ES01	18.9	4.14	3.995	46.326
2009	MP	SA	NM01	18.9	4.57	15	1200
2009	MP	SA	NM02	18.9	5.77	15	1200
2009	MP	SA	ES02	18.9	5.86	6.755	78.324
2009	MP	SB	ES01	18.54	4.04	6.966	80.769
2009	MP	SB	ES02	18.54	4.85	0.031	0.362
2009	MP	SB	ES03	18.54	6.21	3.753	43.519
2009	MP	SD	ES01	17.23	4.85	20.14	779.475
2009	MP	SD	NM01	17.23	5.43	15	1200
2009	MP	SD	NM02	17.23	6.18	15	1200
2009	MP	SD	NM03	17.23	6.93	15	1200
2009	MP	SD	NM04	17.23	7.68	15	1200
2010	MP	SA	ES01	18.9	4.12	3.995	46.326
2010	MP	SA	NM01	18.9	4.55	15	1200
2010	MP	SA	NM02	18.9	5.75	15	1200
2010	MP	SA	ES02	18.9	5.84	6.755	78.324
2010	MP	SB	ES01	18.54	4.02	6.966	80.769

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	MP	SB	ES02	18.54	4.83	0.031	0.362
2010	MP	SB	ES03	18.54	6.19	3.753	43.519
2010	MP	SD	ES01	17.23	4.83	20.14	779.475
2010	MP	SD	NM01	17.23	5.41	15	1200
2010	MP	SD	NM02	17.23	6.15	15	1200
2010	MP	SD	NM03	17.23	6.9	15	1200
2010	MP	SD	NM04	17.23	7.65	15	1200
2015	MP	SA	ES01	18.9	4.04	3.995	46.326
2015	MP	SA	NM01	18.9	4.46	15	1200
2015	MP	SA	NM02	18.9	5.63	15	1200
2015	MP	SA	ES02	18.9	5.73	6.755	78.324
2015	MP	SB	ES01	18.54	3.94	6.966	80.769
2015	MP	SB	ES02	18.54	4.74	0.031	0.362
2015	MP	SB	ES03	18.54	6.06	3.753	43.519
2015	MP	SD	ES01	17.23	4.74	20.14	779.475
2015	MP	SD	NM01	17.23	5.31	15	1200
2015	MP	SD	NM02	17.23	6.03	15	1200
2015	MP	SD	NM03	17.23	6.77	15	1200
2015	MP	SD	NM04	17.23	7.5	15	1200
2020	MP	SA	ES01	18.9	3.96	3.995	46.326
2020	MP	SA	NM01	18.9	4.37	15	1200
2020	MP	SA	NM02	18.9	5.52	15	1200
2020	MP	SA	ES02	18.9	5.61	6.755	78.324
2020	MP	SB	ES01	18.54	3.86	6.966	80.769
2020	MP	SB	ES02	18.54	4.64	0.031	0.362
2020	MP	SB	ES03	18.54	5.94	3.753	43.519
2020	MP	SD	ES01	17.23	4.64	20.14	779.475
2020	MP	SD	NM01	17.23	5.19	15	1200
2020	MP	SD	NM02	17.23	5.92	15	1200
2020	MP	SD	NM03	17.23	6.63	15	1200
2020	MP	SD	NM04	17.23	7.35	15	1200
2025	MP	SA	ES01	18.9	3.88	3.995	46.326
2025	MP	SA	NM01	18.9	4.29	15	1200
2025	MP	SA	NM02	18.9	5.41	15	1200
2025	MP	SA	ES02	18.9	5.5	6.755	78.324
2025	MP	SB	ES01	18.54	3.79	6.966	80.769
2025	MP	SB	ES02	18.54	4.55	0.031	0.362
2025	MP	SB	ES03	18.54	5.82	3.753	43.519
2025	MP	SD	ES01	17.23	4.55	20.14	779.475
2025	MP	SD	NM01	17.23	5.09	15	1200
2025	MP	SD	NM02	17.23	5.8	15	1200
2025	MP	SD	NM03	17.23	6.5	15	1200
2025	MP	SD	NM04	17.23	7.2	15	1200
2035	MP	SA	ES01	18.9	3.8	3.995	46.326
2035	MP	SA	NM01	18.9	4.2	15	1200
2035	MP	SA	NM02	18.9	5.31	15	1200
2035	MP	SA	ES02	18.9	5.4	6.755	78.324
2035	MP	SB	ES01	18.54	3.71	6.966	80.769
2035	MP	SB	ES02	18.54	4.46	0.031	0.362
2035	MP	SB	ES03	18.54	5.71	3.753	43.519
2035	MP	SD	ES01	17.23	4.46	20.14	779.475
2035	MP	SD	NM01	17.23	4.99	15	1200
2035	MP	SD	NM02	17.23	5.69	15	1200
2035	MP	SD	NM03	17.23	6.38	15	1200
2035	MP	SD	NM04	17.23	7.06	15	1200
2007	ND	LD	NM01	13.7	9.43	8	320
2007	ND	LD	NM02	13.7	10.56	8	320
2007	ND	LD	ES01	13.7	10.87	0.06	2.986
2007	ND	LD	NM03	13.7	11.68	8	320
2007	ND	LD	NM04	13.7	12.81	8	320
2007	ND	LD	NM05	13.7	13.95	8	320
2007	ND	LE	ES01	13.46	9.26	4.07	201.402
2007	ND	LE	ES02	13.46	9.36	9.75	483.037
2007	ND	LE	NM01	13.46	9.43	8	320
2007	ND	LE	ES03	13.46	9.44	7.58	375.462
2007	ND	LE	NM02	13.46	10.56	8	320
2007	ND	LE	ES04	13.46	10.87	2.99	148.113
2007	ND	LE	NM03	13.46	11.68	8	320
2007	ND	LE	NM04	13.46	12.81	8	320
2007	ND	LE	NM05	13.46	13.95	8	320
2008	ND	LD	NM01	13.7	9.39	8	320
2008	ND	LD	NM02	13.7	10.51	8	320
2008	ND	LD	ES01	13.7	10.84	0.06	2.986
2008	ND	LD	NM03	13.7	11.64	8	320
2008	ND	LD	NM04	13.7	12.76	8	320
2008	ND	LD	NM05	13.7	13.89	8	320
2008	ND	LE	ES01	13.46	9.22	4.07	201.402

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	ND	LE	ES02	13.46	9.32	9.75	483.037
2008	ND	LE	NM01	13.46	9.39	8	320
2008	ND	LE	ES03	13.46	9.41	7.58	375.462
2008	ND	LE	NM02	13.46	10.51	8	320
2008	ND	LE	ES04	13.46	10.84	2.99	148.113
2008	ND	LE	NM03	13.46	11.64	8	320
2008	ND	LE	NM04	13.46	12.76	8	320
2008	ND	LE	NM05	13.46	13.89	8	320
2009	ND	LD	NM01	13.7	9.35	8	320
2009	ND	LD	NM02	13.7	10.47	8	320
2009	ND	LD	ES01	13.7	10.79	0.06	2.986
2009	ND	LD	NM03	13.7	11.59	8	320
2009	ND	LD	NM04	13.7	12.71	8	320
2009	ND	LD	NM05	13.7	13.83	8	320
2009	ND	LE	ES01	13.46	9.19	4.07	201.402
2009	ND	LE	ES02	13.46	9.29	9.75	483.037
2009	ND	LE	NM01	13.46	9.35	8	320
2009	ND	LE	ES03	13.46	9.36	7.58	375.462
2009	ND	LE	NM02	13.46	10.47	8	320
2009	ND	LE	ES04	13.46	10.79	2.99	148.113
2009	ND	LE	NM03	13.46	11.59	8	320
2009	ND	LE	NM04	13.46	12.71	8	320
2009	ND	LE	NM05	13.46	13.83	8	320
2010	ND	LD	NM01	13.7	9.31	8	320
2010	ND	LD	NM02	13.7	10.43	8	320
2010	ND	LD	ES01	13.7	10.75	0.06	2.986
2010	ND	LD	NM03	13.7	11.55	8	320
2010	ND	LD	NM04	13.7	12.66	8	320
2010	ND	LD	NM05	13.7	13.78	8	320
2010	ND	LE	ES01	13.46	9.15	4.07	201.402
2010	ND	LE	ES02	13.46	9.25	9.75	483.037
2010	ND	LE	NM01	13.46	9.31	8	320
2010	ND	LE	ES03	13.46	9.33	7.58	375.462
2010	ND	LE	NM02	13.46	10.43	8	320
2010	ND	LE	ES04	13.46	10.75	2.99	148.113
2010	ND	LE	NM03	13.46	11.55	8	320
2010	ND	LE	NM04	13.46	12.66	8	320
2010	ND	LE	NM05	13.46	13.78	8	320
2015	ND	LD	NM01	13.7	9.13	8	320
2015	ND	LD	NM02	13.7	10.22	8	320
2015	ND	LD	ES01	13.7	10.53	0.06	2.986
2015	ND	LD	NM03	13.7	11.31	8	320
2015	ND	LD	NM04	13.7	12.41	8	320
2015	ND	LD	NM05	13.7	13.5	8	320
2015	ND	LE	ES01	13.46	8.96	0	201.402
2015	ND	LE	ES02	13.46	9.06	9.75	483.037
2015	ND	LE	NM01	13.46	9.13	8	320
2015	ND	LE	ES03	13.46	9.14	7.58	375.462
2015	ND	LE	NM02	13.46	10.22	8	320
2015	ND	LE	ES04	13.46	10.53	2.99	148.113
2015	ND	LE	NM03	13.46	11.31	8	320
2015	ND	LE	NM04	13.46	12.41	8	320
2015	ND	LE	NM05	13.46	13.5	8	320
2020	ND	LD	NM01	13.7	8.95	8	320
2020	ND	LD	NM02	13.7	10.02	8	320
2020	ND	LD	ES01	13.7	10.32	0.06	2.986
2020	ND	LD	NM03	13.7	11.09	8	320
2020	ND	LD	NM04	13.7	12.16	8	320
2020	ND	LD	NM05	13.7	13.23	8	320
2020	ND	LE	ES01	13.46	8.78	0	201.402
2020	ND	LE	ES02	13.46	8.88	0	483.037
2020	ND	LE	NM01	13.46	8.95	8	320
2020	ND	LE	ES03	13.46	8.96	7.58	375.462
2020	ND	LE	NM02	13.46	10.02	8	320
2020	ND	LE	ES04	13.46	10.32	2.99	148.113
2020	ND	LE	NM03	13.46	11.09	8	320
2020	ND	LE	NM04	13.46	12.16	8	320
2020	ND	LE	NM05	13.46	13.23	8	320
2025	ND	LD	NM01	13.7	8.77	8	320
2025	ND	LD	NM02	13.7	9.82	8	320
2025	ND	LD	ES01	13.7	10.12	0.06	2.986
2025	ND	LD	NM03	13.7	10.87	8	320
2025	ND	LD	NM04	13.7	11.92	8	320
2025	ND	LD	NM05	13.7	12.98	8	320
2025	ND	LE	ES01	13.46	8.62	0	201.402
2025	ND	LE	ES02	13.46	8.71	0	483.037
2025	ND	LE	NM01	13.46	8.77	8	320

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	ND	LE	ES03	13.46	8.78	7.58	375.462
2025	ND	LE	NM02	13.46	9.82	8	320
2025	ND	LE	ES04	13.46	10.12	2.99	148.113
2025	ND	LE	NM03	13.46	10.87	8	320
2025	ND	LE	NM04	13.46	11.92	8	320
2025	ND	LE	NM05	13.46	12.98	8	320
2035	ND	LD	NM01	13.7	8.59	8	320
2035	ND	LD	NM02	13.7	9.62	8	320
2035	ND	LD	ES01	13.7	9.92	0.06	2.986
2035	ND	LD	NM03	13.7	10.66	8	320
2035	ND	LD	NM04	13.7	11.68	8	320
2035	ND	LD	NM05	13.7	12.72	8	320
2035	ND	LE	ES01	13.46	8.44	0	201.402
2035	ND	LE	ES02	13.46	8.54	0	483.037
2035	ND	LE	NM01	13.46	8.59	8	320
2035	ND	LE	ES03	13.46	8.61	7.58	375.462
2035	ND	LE	NM02	13.46	9.62	8	320
2035	ND	LE	ES04	13.46	9.92	2.99	148.113
2035	ND	LE	NM03	13.46	10.66	8	320
2035	ND	LE	NM04	13.46	11.68	8	320
2035	ND	LE	NM05	13.46	12.72	8	320
2007	NS	BA	ES01	22.7	15.09	0.83	53.374
2007	NS	BA	NM01	22.7	20.17	3	51
2007	NS	BD	NM01	24.78	12.91	3.5	70
2007	NS	BD	EU01	24.78	13.03	6.47	77.827
2007	NS	BD	NM02	24.78	14.74	3.5	70
2007	NS	BD	ES02	24.78	15.09	2.97	191.616
2007	NS	BD	NM03	24.78	16.58	3.5	70
2007	NS	BD	NM04	24.78	18.4	3.5	70
2008	NS	BA	ES01	22.7	15.03	0.83	53.374
2008	NS	BA	NM01	22.7	20.08	3	51
2008	NS	BD	NM01	24.78	12.85	3.5	70
2008	NS	BD	EU01	24.78	12.98	6.47	77.827
2008	NS	BD	NM02	24.78	14.68	3.5	70
2008	NS	BD	ES02	24.78	15.03	2.97	191.616
2008	NS	BD	NM03	24.78	16.51	3.5	70
2008	NS	BD	NM04	24.78	18.34	3.5	70
2009	NS	BA	ES01	22.7	14.97	0.83	53.374
2009	NS	BA	NM01	22.7	20	3	51
2009	NS	BD	NM01	24.78	12.8	3.5	70
2009	NS	BD	EU01	24.78	12.92	6.47	77.827
2009	NS	BD	NM02	24.78	14.63	3.5	70
2009	NS	BD	ES02	24.78	14.97	2.97	191.616
2009	NS	BD	NM03	24.78	16.44	3.5	70
2009	NS	BD	NM04	24.78	18.26	3.5	70
2010	NS	BA	ES01	22.7	14.9	0.83	53.374
2010	NS	BA	NM01	22.7	19.92	3	51
2010	NS	BD	NM01	24.78	12.75	3.5	70
2010	NS	BD	EU01	24.78	12.88	6.47	77.827
2010	NS	BD	NM02	24.78	14.56	3.5	70
2010	NS	BD	ES02	24.78	14.9	2.97	191.616
2010	NS	BD	NM03	24.78	16.38	3.5	70
2010	NS	BD	NM04	24.78	18.19	3.5	70
2015	NS	BA	ES01	22.7	14.61	0.83	53.374
2015	NS	BA	NM01	22.7	19.53	3	51
2015	NS	BD	NM01	24.78	12.5	3.5	70
2015	NS	BD	EU01	24.78	12.62	6.47	77.827
2015	NS	BD	NM02	24.78	14.27	3.5	70
2015	NS	BD	ES02	24.78	14.61	2.97	191.616
2015	NS	BD	NM03	24.78	16.05	3.5	70
2015	NS	BD	NM04	24.78	17.82	3.5	70
2020	NS	BA	ES01	22.7	14.32	0.83	53.374
2020	NS	BA	NM01	22.7	19.14	3	51
2020	NS	BD	NM01	24.78	12.25	3.5	70
2020	NS	BD	EU01	24.78	12.36	6.47	77.827
2020	NS	BD	NM02	24.78	13.99	3.5	70
2020	NS	BD	ES02	24.78	14.32	2.97	191.616
2020	NS	BD	NM03	24.78	15.73	3.5	70
2020	NS	BD	NM04	24.78	17.47	3.5	70
2025	NS	BA	ES01	22.7	14.03	0.83	53.374
2025	NS	BA	NM01	22.7	18.76	3	51
2025	NS	BD	NM01	24.78	12.01	3.5	70
2025	NS	BD	EU01	24.78	12.12	6.47	77.827
2025	NS	BD	NM02	24.78	13.71	3.5	70
2025	NS	BD	ES02	24.78	14.03	2.97	191.616
2025	NS	BD	NM03	24.78	15.42	3.5	70
2025	NS	BD	NM04	24.78	17.12	3.5	70

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	NS	BA	ES01	22.7	13.76	0.83	53.374
2035	NS	BA	NM01	22.7	18.38	3	51
2035	NS	BD	NM01	24.78	11.77	3.5	70
2035	NS	BD	EU01	24.78	11.88	6.47	77.827
2035	NS	BD	NM02	24.78	13.44	3.5	70
2035	NS	BD	ES02	24.78	13.76	2.97	191.616
2035	NS	BD	NM03	24.78	15.12	3.5	70
2035	NS	BD	NM04	24.78	16.79	3.5	70
2007	OH	BB	NM01	24.68	41.81	0.25	2
2007	OH	BB	NM02	24.68	42.55	0.25	2
2007	OH	BB	NM03	24.68	43.27	0.25	2
2007	OH	BB	NM04	24.68	44.01	0.25	2
2007	OH	BB	NM05	24.68	44.74	0.25	2
2007	OH	BB	NM06	24.68	45.47	0.25	2
2007	OH	BB	NM07	24.68	46.21	0.25	2
2007	OH	BB	NM08	24.68	46.94	0.25	2
2007	OH	BB	NM09	24.68	47.67	0.25	2
2007	OH	BB	NM10	24.68	48.4	0.25	2
2007	OH	BB	NM11	24.68	49.13	0.25	2
2007	OH	BB	NM12	24.68	49.86	0.25	2
2007	OH	BB	NM13	24.68	50.59	0.25	2
2007	OH	BB	NM14	24.68	51.32	0.25	2
2007	OH	BB	NM15	24.68	52.05	0.25	2
2007	OH	BB	NM16	24.68	52.78	0.25	2
2007	OH	BB	NM17	24.68	53.51	0.25	2
2007	OH	BB	NM18	24.68	54.24	0.25	2
2007	OH	BB	NM19	24.68	54.97	0.25	2
2007	OH	BB	NM20	24.68	55.7	0.25	2
2007	OH	BB	NM21	24.68	56.44	0.25	2
2007	OH	BB	NM22	24.68	57.18	0.25	2
2007	OH	BB	NM23	24.68	57.9	0.25	2
2007	OH	BB	NM24	24.68	58.64	0.25	2
2007	OH	BB	NM25	24.68	59.36	0.25	2
2007	OH	BB	NM26	24.68	60.1	0.25	2
2007	OH	BB	NM27	24.68	60.82	0.25	2
2007	OH	BB	NM28	24.68	61.56	0.25	2
2007	OH	BB	NM29	24.68	62.28	0.25	2
2007	OH	BB	NM30	24.68	63.02	0.25	2
2007	OH	BB	NM31	24.68	63.74	0.25	2
2007	OH	BB	NM32	24.68	64.48	0.25	2
2007	OH	BB	NM33	24.68	65.2	0.25	2
2007	OH	BB	NM34	24.68	65.94	0.25	2
2007	OH	BB	NM35	24.68	66.66	0.25	2
2007	OH	BB	NM36	24.68	67.4	0.25	2
2007	OH	BB	NM37	24.68	68.13	0.25	2
2007	OH	BB	NM38	24.68	68.87	0.25	2
2007	OH	BB	NM39	24.68	69.59	0.25	2
2007	OH	BB	NM40	24.68	70.33	0.25	2
2007	OH	BD	EU01	25.55	21.4	0.03	0.34
2007	OH	BD	NM01	25.55	25.78	0.6	4.8
2007	OH	BD	NM02	25.55	27.33	0.6	4.8
2007	OH	BD	EU02	25.55	27.48	0.02	0.26
2007	OH	BD	NM03	25.55	28.87	0.6	4.8
2007	OH	BD	NM04	25.55	30.43	0.6	4.8
2007	OH	BD	NM05	25.55	31.97	0.6	4.8
2007	OH	BD	NM06	25.55	33.53	0.6	4.8
2007	OH	BD	NM07	25.55	35.07	0.6	4.8
2007	OH	BD	NM08	25.55	36.62	0.6	4.8
2007	OH	BD	NM09	25.55	38.17	0.6	4.8
2007	OH	BD	NM10	25.55	39.71	0.6	4.8
2007	OH	BD	NM11	25.55	41.27	0.6	4.8
2007	OH	BD	NM12	25.55	42.81	0.6	4.8
2007	OH	BD	NM13	25.55	44.37	0.6	4.8
2007	OH	BD	NM14	25.55	45.92	0.6	4.8
2007	OH	BD	NM15	25.55	47.46	0.6	4.8
2007	OH	BD	NM16	25.55	49	0.6	4.8
2007	OH	BD	NM17	25.55	50.57	0.6	4.8
2007	OH	BD	NM18	25.55	52.1	0.6	4.8
2007	OH	BD	NM19	25.55	53.66	0.6	4.8
2007	OH	BD	NM20	25.55	55.2	0.6	4.8
2007	OH	BD	NM21	25.55	56.75	0.6	4.8
2007	OH	BD	NM22	25.55	58.3	0.6	4.8
2007	OH	BD	NM23	25.55	59.84	0.6	4.8
2007	OH	BD	NM24	25.55	61.4	0.6	4.8
2007	OH	BD	NM25	25.55	62.94	0.6	4.8
2007	OH	BD	NM26	25.55	64.5	0.6	4.8
2007	OH	BD	NM27	25.55	66.04	0.6	4.8

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	OH	BD	NM28	25.55	67.59	0.6	4.8
2007	OH	BD	NM29	25.55	69.14	0.6	4.8
2007	OH	BD	NM30	25.55	70.69	0.6	4.8
2007	OH	BE	EU01	25.24	21.4	0.12	1.445
2007	OH	BE	NM01	25.24	22.96	0.5	4
2007	OH	BE	ES02	25.24	23.83	0.05	0.75
2007	OH	BE	EU03	25.24	23.92	0.47	5.795
2007	OH	BE	NM02	25.24	24.2	0.5	4
2007	OH	BE	ES04	25.24	24.58	0.6	8.372
2007	OH	BE	ES05	25.24	25.36	0.01	0.161
2007	OH	BE	NM03	25.24	25.45	0.5	4
2007	OH	BE	ES06	25.24	26.24	0.13	1.867
2007	OH	BE	NM04	25.24	26.69	0.5	4
2007	OH	BE	EU07	25.24	27.48	0.22	2.676
2007	OH	BE	ES08	25.24	27.67	0.01	0.18
2007	OH	BE	NM05	25.24	27.92	0.5	4
2007	OH	BE	NM06	25.24	29.16	0.5	4
2007	OH	BE	NM07	25.24	30.4	0.5	4
2007	OH	BE	NM08	25.24	31.65	0.5	4
2007	OH	BE	ES09	25.24	32.84	0.05	0.632
2007	OH	BE	NM09	25.24	32.89	0.5	4
2007	OH	BE	NM10	25.24	34.12	0.5	4
2007	OH	BE	NM11	25.24	35.36	0.5	4
2007	OH	BE	NM12	25.24	36.61	0.5	4
2007	OH	BE	NM13	25.24	37.85	0.5	4
2007	OH	BE	NM14	25.24	39.08	0.5	4
2007	OH	BE	NM15	25.24	40.32	0.5	4
2007	OH	BE	NM16	25.24	41.57	0.5	4
2007	OH	BE	NM17	25.24	42.81	0.5	4
2007	OH	BE	NM18	25.24	44.04	0.5	4
2007	OH	BE	NM19	25.24	45.28	0.5	4
2007	OH	BE	NM20	25.24	46.53	0.5	4
2007	OH	BE	NM21	25.24	47.77	0.5	4
2007	OH	BE	NM22	25.24	49	0.5	4
2007	OH	BE	NM23	25.24	50.24	0.5	4
2007	OH	BE	NM24	25.24	51.48	0.5	4
2007	OH	BE	NM25	25.24	52.73	0.5	4
2007	OH	BE	NM26	25.24	53.97	0.5	4
2007	OH	BE	NM27	25.24	55.2	0.5	4
2007	OH	BE	NM28	25.24	56.44	0.5	4
2007	OH	BE	NM29	25.24	57.69	0.5	4
2007	OH	BE	NM30	25.24	58.93	0.5	4
2007	OH	BE	NM31	25.24	60.16	0.5	4
2007	OH	BE	NM32	25.24	61.4	0.5	4
2007	OH	BE	NM33	25.24	62.65	0.5	4
2007	OH	BE	NM34	25.24	63.89	0.5	4
2007	OH	BE	NM35	25.24	65.12	0.5	4
2007	OH	BE	NM36	25.24	66.36	0.5	4
2007	OH	BE	NM37	25.24	67.61	0.5	4
2007	OH	BE	NM38	25.24	68.85	0.5	4
2007	OH	BE	NM39	25.24	70.08	0.5	4
2007	OH	BE	NM40	25.24	71.32	0.5	4
2007	OH	BE	ES10	25.24	77.84	0.03	0.484
2007	OH	BG	EU01	24.34	21.4	0.08	0.971
2007	OH	BG	ES02	24.34	23.83	0.03	0.469
2007	OH	BG	EU03	24.34	23.92	1.96	24.079
2007	OH	BG	ES04	24.34	24.01	0.03	0.446
2007	OH	BG	EU05	24.34	24.35	0.03	0.404
2007	OH	BG	ES06	24.34	24.58	2.92	40.951
2007	OH	BG	ES07	24.34	25.36	0.3	4.228
2007	OH	BG	ES08	24.34	25.81	0.02	0.345
2007	OH	BG	ES09	24.34	26.21	0.11	1.533
2007	OH	BG	ES10	24.34	26.24	0.75	10.523
2007	OH	BG	NM01	24.34	26.45	4	80
2007	OH	BG	NM02	24.34	27.45	4	80
2007	OH	BG	ES11	24.34	27.67	0.1	1.346
2007	OH	BG	NM03	24.34	28.45	4	80
2007	OH	BG	NM04	24.34	29.45	4	80
2007	OH	BG	NM05	24.34	30.45	4	80
2007	OH	BG	NM06	24.34	32.45	4	80
2007	OH	BG	ES12	24.34	32.84	0.04	0.552
2007	OH	BG	NM07	24.34	34.45	4	80
2007	OH	BG	NM08	24.34	37.45	4	80
2007	OH	BG	ES13	24.34	37.78	0.02	0.247
2007	OH	BG	ES14	24.34	38.88	0.21	2.984
2007	OH	BG	NM09	24.34	40.45	4	80
2007	OH	BG	NM10	24.34	67.8	4	80

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	OH	BG	ES15	24.34	67.9	0.36	5.094
2007	OH	BG	ES16	24.34	77.84	0.12	1.751
2007	OH	BH	ES01	23.92	24.01	0.02	0.307
2007	OH	BH	EU02	23.92	24.35	13.48	166.032
2007	OH	BH	ES03	23.92	25.09	0.09	1.241
2007	OH	BH	ES04	23.92	25.36	0.04	0.551
2007	OH	BH	ES05	23.92	25.81	1.41	19.711
2007	OH	BH	ES06	23.92	26.21	0.3	4.273
2007	OH	BH	ES07	23.92	26.24	0.15	2.16
2007	OH	BH	NM01	23.92	26.45	4	80
2007	OH	BH	NM02	23.92	27.45	4	80
2007	OH	BH	ES08	23.92	27.67	0.09	1.249
2007	OH	BH	NM03	23.92	28.45	4	80
2007	OH	BH	NM04	23.92	29.45	4	80
2007	OH	BH	NM05	23.92	30.45	4	80
2007	OH	BH	NM06	23.92	32.45	4	80
2007	OH	BH	NM07	23.92	34.45	4	80
2007	OH	BH	ES09	23.92	35.67	0.28	3.956
2007	OH	BH	NM08	23.92	37.45	4	80
2007	OH	BH	ES10	23.92	37.78	0.2	2.822
2007	OH	BH	ES11	23.92	38.88	0.31	4.369
2007	OH	BH	NM09	23.92	40.45	4	80
2007	OH	BH	NM10	23.92	67.8	4	80
2007	OH	BH	ES12	23.92	67.9	0.74	10.445
2008	OH	BB	NM01	24.68	41.65	0.25	2
2008	OH	BB	NM02	24.68	42.38	0.25	2
2008	OH	BB	NM03	24.68	43.11	0.25	2
2008	OH	BB	NM04	24.68	43.84	0.25	2
2008	OH	BB	NM05	24.68	44.56	0.25	2
2008	OH	BB	NM06	24.68	45.29	0.25	2
2008	OH	BB	NM07	24.68	46.02	0.25	2
2008	OH	BB	NM08	24.68	46.75	0.25	2
2008	OH	BB	NM09	24.68	47.48	0.25	2
2008	OH	BB	NM10	24.68	48.2	0.25	2
2008	OH	BB	NM11	24.68	48.93	0.25	2
2008	OH	BB	NM12	24.68	49.66	0.25	2
2008	OH	BB	NM13	24.68	50.39	0.25	2
2008	OH	BB	NM14	24.68	51.12	0.25	2
2008	OH	BB	NM15	24.68	51.84	0.25	2
2008	OH	BB	NM16	24.68	52.57	0.25	2
2008	OH	BB	NM17	24.68	53.3	0.25	2
2008	OH	BB	NM18	24.68	54.03	0.25	2
2008	OH	BB	NM19	24.68	54.76	0.25	2
2008	OH	BB	NM20	24.68	55.48	0.25	2
2008	OH	BB	NM21	24.68	56.21	0.25	2
2008	OH	BB	NM22	24.68	56.94	0.25	2
2008	OH	BB	NM23	24.68	57.67	0.25	2
2008	OH	BB	NM24	24.68	58.4	0.25	2
2008	OH	BB	NM25	24.68	59.12	0.25	2
2008	OH	BB	NM26	24.68	59.85	0.25	2
2008	OH	BB	NM27	24.68	60.58	0.25	2
2008	OH	BB	NM28	24.68	61.31	0.25	2
2008	OH	BB	NM29	24.68	62.04	0.25	2
2008	OH	BB	NM30	24.68	62.76	0.25	2
2008	OH	BB	NM31	24.68	63.49	0.25	2
2008	OH	BB	NM32	24.68	64.22	0.25	2
2008	OH	BB	NM33	24.68	64.95	0.25	2
2008	OH	BB	NM34	24.68	65.68	0.25	2
2008	OH	BB	NM35	24.68	66.39	0.25	2
2008	OH	BB	NM36	24.68	67.13	0.25	2
2008	OH	BB	NM37	24.68	67.86	0.25	2
2008	OH	BB	NM38	24.68	68.59	0.25	2
2008	OH	BB	NM39	24.68	69.32	0.25	2
2008	OH	BB	NM40	24.68	70.04	0.25	2
2008	OH	BD	EU01	25.55	21.33	0	0.34
2008	OH	BD	NM01	25.55	25.68	0.6	4.8
2008	OH	BD	NM02	25.55	27.22	0.6	4.8
2008	OH	BD	EU02	25.55	27.37	0	0.26
2008	OH	BD	NM03	25.55	28.76	0.6	4.8
2008	OH	BD	NM04	25.55	30.31	0.6	4.8
2008	OH	BD	NM05	25.55	31.84	0.6	4.8
2008	OH	BD	NM06	25.55	33.4	0.6	4.8
2008	OH	BD	NM07	25.55	34.94	0.6	4.8
2008	OH	BD	NM08	25.55	36.47	0.6	4.8
2008	OH	BD	NM09	25.55	38.01	0.6	4.8
2008	OH	BD	NM10	25.55	39.55	0.6	4.8
2008	OH	BD	NM11	25.55	41.1	0.6	4.8

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	OH	BD	NM12	25.55	42.65	0.6	4.8
2008	OH	BD	NM13	25.55	44.19	0.6	4.8
2008	OH	BD	NM14	25.55	45.73	0.6	4.8
2008	OH	BD	NM15	25.55	47.27	0.6	4.8
2008	OH	BD	NM16	25.55	48.82	0.6	4.8
2008	OH	BD	NM17	25.55	50.35	0.6	4.8
2008	OH	BD	NM18	25.55	51.9	0.6	4.8
2008	OH	BD	NM19	25.55	53.44	0.6	4.8
2008	OH	BD	NM20	25.55	54.98	0.6	4.8
2008	OH	BD	NM21	25.55	56.52	0.6	4.8
2008	OH	BD	NM22	25.55	58.07	0.6	4.8
2008	OH	BD	NM23	25.55	59.61	0.6	4.8
2008	OH	BD	NM24	25.55	61.16	0.6	4.8
2008	OH	BD	NM25	25.55	62.69	0.6	4.8
2008	OH	BD	NM26	25.55	64.23	0.6	4.8
2008	OH	BD	NM27	25.55	65.77	0.6	4.8
2008	OH	BD	NM28	25.55	67.32	0.6	4.8
2008	OH	BD	NM29	25.55	68.87	0.6	4.8
2008	OH	BD	NM30	25.55	70.41	0.6	4.8
2008	OH	BE	EU01	25.24	21.33	0	1.445
2008	OH	BE	NM01	25.24	22.87	0.5	4
2008	OH	BE	ES02	25.24	23.74	0	0.75
2008	OH	BE	EU03	25.24	23.82	0.47	5.795
2008	OH	BE	NM02	25.24	24.11	0.5	4
2008	OH	BE	ES04	25.24	24.48	0.6	8.372
2008	OH	BE	ES05	25.24	25.26	0	0.161
2008	OH	BE	NM03	25.24	25.34	0.5	4
2008	OH	BE	ES06	25.24	26.13	0.13	1.867
2008	OH	BE	NM04	25.24	26.58	0.5	4
2008	OH	BE	EU07	25.24	27.37	0	2.676
2008	OH	BE	ES08	25.24	27.56	0	0.18
2008	OH	BE	NM05	25.24	27.81	0.5	4
2008	OH	BE	NM06	25.24	29.05	0.5	4
2008	OH	BE	NM07	25.24	30.29	0.5	4
2008	OH	BE	NM08	25.24	31.51	0.5	4
2008	OH	BE	ES09	25.24	32.71	0	0.632
2008	OH	BE	NM09	25.24	32.75	0.5	4
2008	OH	BE	NM10	25.24	33.99	0.5	4
2008	OH	BE	NM11	25.24	35.23	0.5	4
2008	OH	BE	NM12	25.24	36.46	0.5	4
2008	OH	BE	NM13	25.24	37.69	0.5	4
2008	OH	BE	NM14	25.24	38.93	0.5	4
2008	OH	BE	NM15	25.24	40.16	0.5	4
2008	OH	BE	NM16	25.24	41.4	0.5	4
2008	OH	BE	NM17	25.24	42.63	0.5	4
2008	OH	BE	NM18	25.24	43.87	0.5	4
2008	OH	BE	NM19	25.24	45.1	0.5	4
2008	OH	BE	NM20	25.24	46.34	0.5	4
2008	OH	BE	NM21	25.24	47.58	0.5	4
2008	OH	BE	NM22	25.24	48.8	0.5	4
2008	OH	BE	NM23	25.24	50.04	0.5	4
2008	OH	BE	NM24	25.24	51.28	0.5	4
2008	OH	BE	NM25	25.24	52.52	0.5	4
2008	OH	BE	NM26	25.24	53.75	0.5	4
2008	OH	BE	NM27	25.24	54.98	0.5	4
2008	OH	BE	NM28	25.24	56.22	0.5	4
2008	OH	BE	NM29	25.24	57.45	0.5	4
2008	OH	BE	NM30	25.24	58.69	0.5	4
2008	OH	BE	NM31	25.24	59.93	0.5	4
2008	OH	BE	NM32	25.24	61.16	0.5	4
2008	OH	BE	NM33	25.24	62.39	0.5	4
2008	OH	BE	NM34	25.24	63.63	0.5	4
2008	OH	BE	NM35	25.24	64.87	0.5	4
2008	OH	BE	NM36	25.24	66.09	0.5	4
2008	OH	BE	NM37	25.24	67.33	0.5	4
2008	OH	BE	NM38	25.24	68.57	0.5	4
2008	OH	BE	NM39	25.24	69.81	0.5	4
2008	OH	BE	NM40	25.24	71.04	0.5	4
2008	OH	BE	ES10	25.24	77.54	0.03	0.484
2008	OH	BG	EU01	24.34	21.33	0	0.971
2008	OH	BG	ES02	24.34	23.74	0	0.469
2008	OH	BG	EU03	24.34	23.82	1.96	24.079
2008	OH	BG	ES04	24.34	23.91	0	0.446
2008	OH	BG	EU05	24.34	24.26	0.03	0.404
2008	OH	BG	ES06	24.34	24.48	2.92	40.951
2008	OH	BG	ES07	24.34	25.26	0	4.228
2008	OH	BG	ES08	24.34	25.71	0.02	0.345

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	OH	BG	ES09	24.34	26.1	0.11	1.533
2008	OH	BG	ES10	24.34	26.13	0.75	10.523
2008	OH	BG	NM01	24.34	26.34	4	80
2008	OH	BG	NM02	24.34	27.34	4	80
2008	OH	BG	ES11	24.34	27.56	0	1.346
2008	OH	BG	NM03	24.34	28.34	4	80
2008	OH	BG	NM04	24.34	29.33	4	80
2008	OH	BG	NM05	24.34	30.33	4	80
2008	OH	BG	NM06	24.34	32.32	4	80
2008	OH	BG	ES12	24.34	32.71	0	0.552
2008	OH	BG	NM07	24.34	34.31	4	80
2008	OH	BG	NM08	24.34	37.3	4	80
2008	OH	BG	ES13	24.34	37.63	0	0.247
2008	OH	BG	ES14	24.34	38.73	0.21	2.984
2008	OH	BG	NM09	24.34	40.29	4	80
2008	OH	BG	NM10	24.34	67.53	4	80
2008	OH	BG	ES15	24.34	67.63	0.36	5.094
2008	OH	BG	ES16	24.34	77.54	0.12	1.751
2008	OH	BH	ES01	23.92	23.91	0	0.307
2008	OH	BH	EU02	23.92	24.26	13.48	166.032
2008	OH	BH	ES03	23.92	24.99	0	1.241
2008	OH	BH	ES04	23.92	25.26	0	0.551
2008	OH	BH	ES05	23.92	25.71	1.41	19.711
2008	OH	BH	ES06	23.92	26.1	0.3	4.273
2008	OH	BH	ES07	23.92	26.13	0.15	2.16
2008	OH	BH	NM01	23.92	26.34	4	80
2008	OH	BH	NM02	23.92	27.34	4	80
2008	OH	BH	ES08	23.92	27.56	0	1.249
2008	OH	BH	NM03	23.92	28.34	4	80
2008	OH	BH	NM04	23.92	29.33	4	80
2008	OH	BH	NM05	23.92	30.33	4	80
2008	OH	BH	NM06	23.92	32.32	4	80
2008	OH	BH	NM07	23.92	34.31	4	80
2008	OH	BH	ES09	23.92	35.53	0	3.956
2008	OH	BH	NM08	23.92	37.3	4	80
2008	OH	BH	ES10	23.92	37.63	0	2.822
2008	OH	BH	ES11	23.92	38.73	0.31	4.369
2008	OH	BH	NM09	23.92	40.29	4	80
2008	OH	BH	NM10	23.92	67.53	4	80
2008	OH	BH	ES12	23.92	67.63	0.74	10.445
2009	OH	BB	NM01	24.68	41.48	0.25	2
2009	OH	BB	NM02	24.68	42.22	0.25	2
2009	OH	BB	NM03	24.68	42.93	0.25	2
2009	OH	BB	NM04	24.68	43.67	0.25	2
2009	OH	BB	NM05	24.68	44.38	0.25	2
2009	OH	BB	NM06	24.68	45.11	0.25	2
2009	OH	BB	NM07	24.68	45.84	0.25	2
2009	OH	BB	NM08	24.68	46.56	0.25	2
2009	OH	BB	NM09	24.68	47.29	0.25	2
2009	OH	BB	NM10	24.68	48.01	0.25	2
2009	OH	BB	NM11	24.68	48.74	0.25	2
2009	OH	BB	NM12	24.68	49.46	0.25	2
2009	OH	BB	NM13	24.68	50.19	0.25	2
2009	OH	BB	NM14	24.68	50.91	0.25	2
2009	OH	BB	NM15	24.68	51.64	0.25	2
2009	OH	BB	NM16	24.68	52.36	0.25	2
2009	OH	BB	NM17	24.68	53.08	0.25	2
2009	OH	BB	NM18	24.68	53.81	0.25	2
2009	OH	BB	NM19	24.68	54.53	0.25	2
2009	OH	BB	NM20	24.68	55.27	0.25	2
2009	OH	BB	NM21	24.68	55.98	0.25	2
2009	OH	BB	NM22	24.68	56.72	0.25	2
2009	OH	BB	NM23	24.68	57.43	0.25	2
2009	OH	BB	NM24	24.68	58.17	0.25	2
2009	OH	BB	NM25	24.68	58.88	0.25	2
2009	OH	BB	NM26	24.68	59.62	0.25	2
2009	OH	BB	NM27	24.68	60.33	0.25	2
2009	OH	BB	NM28	24.68	61.07	0.25	2
2009	OH	BB	NM29	24.68	61.78	0.25	2
2009	OH	BB	NM30	24.68	62.52	0.25	2
2009	OH	BB	NM31	24.68	63.24	0.25	2
2009	OH	BB	NM32	24.68	63.96	0.25	2
2009	OH	BB	NM33	24.68	64.69	0.25	2
2009	OH	BB	NM34	24.68	65.41	0.25	2
2009	OH	BB	NM35	24.68	66.14	0.25	2
2009	OH	BB	NM36	24.68	66.86	0.25	2
2009	OH	BB	NM37	24.68	67.59	0.25	2

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	OH	BB	NM38	24.68	68.31	0.25	2
2009	OH	BB	NM39	24.68	69.04	0.25	2
2009	OH	BB	NM40	24.68	69.76	0.25	2
2009	OH	BD	EU01	25.55	21.24	0	0.34
2009	OH	BD	NM01	25.55	25.57	0.6	4.8
2009	OH	BD	NM02	25.55	27.11	0.6	4.8
2009	OH	BD	EU02	25.55	27.26	0	0.26
2009	OH	BD	NM03	25.55	28.65	0.6	4.8
2009	OH	BD	NM04	25.55	30.19	0.6	4.8
2009	OH	BD	NM05	25.55	31.73	0.6	4.8
2009	OH	BD	NM06	25.55	33.26	0.6	4.8
2009	OH	BD	NM07	25.55	34.79	0.6	4.8
2009	OH	BD	NM08	25.55	36.32	0.6	4.8
2009	OH	BD	NM09	25.55	37.87	0.6	4.8
2009	OH	BD	NM10	25.55	39.4	0.6	4.8
2009	OH	BD	NM11	25.55	40.93	0.6	4.8
2009	OH	BD	NM12	25.55	42.47	0.6	4.8
2009	OH	BD	NM13	25.55	44.01	0.6	4.8
2009	OH	BD	NM14	25.55	45.54	0.6	4.8
2009	OH	BD	NM15	25.55	47.09	0.6	4.8
2009	OH	BD	NM16	25.55	48.63	0.6	4.8
2009	OH	BD	NM17	25.55	50.15	0.6	4.8
2009	OH	BD	NM18	25.55	51.68	0.6	4.8
2009	OH	BD	NM19	25.55	53.22	0.6	4.8
2009	OH	BD	NM20	25.55	54.76	0.6	4.8
2009	OH	BD	NM21	25.55	56.3	0.6	4.8
2009	OH	BD	NM22	25.55	57.83	0.6	4.8
2009	OH	BD	NM23	25.55	59.37	0.6	4.8
2009	OH	BD	NM24	25.55	60.91	0.6	4.8
2009	OH	BD	NM25	25.55	62.45	0.6	4.8
2009	OH	BD	NM26	25.55	63.99	0.6	4.8
2009	OH	BD	NM27	25.55	65.51	0.6	4.8
2009	OH	BD	NM28	25.55	67.04	0.6	4.8
2009	OH	BD	NM29	25.55	68.58	0.6	4.8
2009	OH	BD	NM30	25.55	70.12	0.6	4.8
2009	OH	BE	EU01	25.24	21.24	0	1.445
2009	OH	BE	NM01	25.24	22.79	0.5	4
2009	OH	BE	ES02	25.24	23.64	0	0.75
2009	OH	BE	EU03	25.24	23.73	0.47	5.795
2009	OH	BE	NM02	25.24	24.01	0.5	4
2009	OH	BE	ES04	25.24	24.39	0.6	8.372
2009	OH	BE	ES05	25.24	25.16	0	0.161
2009	OH	BE	NM03	25.24	25.24	0.5	4
2009	OH	BE	ES06	25.24	26.03	0.13	1.867
2009	OH	BE	NM04	25.24	26.48	0.5	4
2009	OH	BE	EU07	25.24	27.26	0	2.676
2009	OH	BE	ES08	25.24	27.45	0	0.18
2009	OH	BE	NM05	25.24	27.7	0.5	4
2009	OH	BE	NM06	25.24	28.93	0.5	4
2009	OH	BE	NM07	25.24	30.17	0.5	4
2009	OH	BE	NM08	25.24	31.39	0.5	4
2009	OH	BE	ES09	25.24	32.57	0	0.632
2009	OH	BE	NM09	25.24	32.62	0.5	4
2009	OH	BE	NM10	25.24	33.86	0.5	4
2009	OH	BE	NM11	25.24	35.08	0.5	4
2009	OH	BE	NM12	25.24	36.31	0.5	4
2009	OH	BE	NM13	25.24	37.55	0.5	4
2009	OH	BE	NM14	25.24	38.77	0.5	4
2009	OH	BE	NM15	25.24	40	0.5	4
2009	OH	BE	NM16	25.24	41.23	0.5	4
2009	OH	BE	NM17	25.24	42.46	0.5	4
2009	OH	BE	NM18	25.24	43.7	0.5	4
2009	OH	BE	NM19	25.24	44.92	0.5	4
2009	OH	BE	NM20	25.24	46.15	0.5	4
2009	OH	BE	NM21	25.24	47.39	0.5	4
2009	OH	BE	NM22	25.24	48.61	0.5	4
2009	OH	BE	NM23	25.24	49.84	0.5	4
2009	OH	BE	NM24	25.24	51.08	0.5	4
2009	OH	BE	NM25	25.24	52.3	0.5	4
2009	OH	BE	NM26	25.24	53.53	0.5	4
2009	OH	BE	NM27	25.24	54.77	0.5	4
2009	OH	BE	NM28	25.24	55.99	0.5	4
2009	OH	BE	NM29	25.24	57.22	0.5	4
2009	OH	BE	NM30	25.24	58.46	0.5	4
2009	OH	BE	NM31	25.24	59.68	0.5	4
2009	OH	BE	NM32	25.24	60.91	0.5	4
2009	OH	BE	NM33	25.24	62.15	0.5	4

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	OH	BE	NM34	25.24	63.37	0.5	4
2009	OH	BE	NM35	25.24	64.6	0.5	4
2009	OH	BE	NM36	25.24	65.84	0.5	4
2009	OH	BE	NM37	25.24	67.06	0.5	4
2009	OH	BE	NM38	25.24	68.29	0.5	4
2009	OH	BE	NM39	25.24	69.53	0.5	4
2009	OH	BE	NM40	25.24	70.75	0.5	4
2009	OH	BE	ES10	25.24	77.23	0.03	0.484
2009	OH	BG	EU01	24.34	21.24	0	0.971
2009	OH	BG	ES02	24.34	23.64	0	0.469
2009	OH	BG	EU03	24.34	23.73	1.96	24.079
2009	OH	BG	ES04	24.34	23.82	0	0.446
2009	OH	BG	EU05	24.34	24.16	0.03	0.404
2009	OH	BG	ES06	24.34	24.39	2.92	40.951
2009	OH	BG	ES07	24.34	25.16	0	4.228
2009	OH	BG	ES08	24.34	25.61	0.02	0.345
2009	OH	BG	ES09	24.34	26	0.11	1.533
2009	OH	BG	ES10	24.34	26.03	0.75	10.523
2009	OH	BG	NM01	24.34	26.24	4	80
2009	OH	BG	NM02	24.34	27.23	4	80
2009	OH	BG	ES11	24.34	27.45	0	1.346
2009	OH	BG	NM03	24.34	28.22	4	80
2009	OH	BG	NM04	24.34	29.21	4	80
2009	OH	BG	NM05	24.34	30.21	4	80
2009	OH	BG	NM06	24.34	32.19	4	80
2009	OH	BG	ES12	24.34	32.57	0	0.552
2009	OH	BG	NM07	24.34	34.17	4	80
2009	OH	BG	NM08	24.34	37.15	4	80
2009	OH	BG	ES13	24.34	37.48	0	0.247
2009	OH	BG	ES14	24.34	38.57	0	2.984
2009	OH	BG	NM09	24.34	40.13	4	80
2009	OH	BG	NM10	24.34	67.26	4	80
2009	OH	BG	ES15	24.34	67.36	0.36	5.094
2009	OH	BG	ES16	24.34	77.23	0.12	1.751
2009	OH	BH	ES01	23.92	23.82	0	0.307
2009	OH	BH	EU02	23.92	24.16	13.48	166.032
2009	OH	BH	ES03	23.92	24.89	0	1.241
2009	OH	BH	ES04	23.92	25.16	0	0.551
2009	OH	BH	ES05	23.92	25.61	1.41	19.711
2009	OH	BH	ES06	23.92	26	0.3	4.273
2009	OH	BH	ES07	23.92	26.03	0.15	2.16
2009	OH	BH	NM01	23.92	26.24	4	80
2009	OH	BH	NM02	23.92	27.23	4	80
2009	OH	BH	ES08	23.92	27.45	0	1.249
2009	OH	BH	NM03	23.92	28.22	4	80
2009	OH	BH	NM04	23.92	29.21	4	80
2009	OH	BH	NM05	23.92	30.21	4	80
2009	OH	BH	NM06	23.92	32.19	4	80
2009	OH	BH	NM07	23.92	34.17	4	80
2009	OH	BH	ES09	23.92	35.38	0	3.956
2009	OH	BH	NM08	23.92	37.15	4	80
2009	OH	BH	ES10	23.92	37.48	0	2.822
2009	OH	BH	ES11	23.92	38.57	0	4.369
2009	OH	BH	NM09	23.92	40.13	4	80
2009	OH	BH	NM10	23.92	67.26	4	80
2009	OH	BH	ES12	23.92	67.36	0.74	10.445
2010	OH	BB	NM01	24.68	41.31	0.25	2
2010	OH	BB	NM02	24.68	42.05	0.25	2
2010	OH	BB	NM03	24.68	42.76	0.25	2
2010	OH	BB	NM04	24.68	43.49	0.25	2
2010	OH	BB	NM05	24.68	44.21	0.25	2
2010	OH	BB	NM06	24.68	44.94	0.25	2
2010	OH	BB	NM07	24.68	45.65	0.25	2
2010	OH	BB	NM08	24.68	46.37	0.25	2
2010	OH	BB	NM09	24.68	47.1	0.25	2
2010	OH	BB	NM10	24.68	47.82	0.25	2
2010	OH	BB	NM11	24.68	48.54	0.25	2
2010	OH	BB	NM12	24.68	49.26	0.25	2
2010	OH	BB	NM13	24.68	49.99	0.25	2
2010	OH	BB	NM14	24.68	50.71	0.25	2
2010	OH	BB	NM15	24.68	51.42	0.25	2
2010	OH	BB	NM16	24.68	52.16	0.25	2
2010	OH	BB	NM17	24.68	52.87	0.25	2
2010	OH	BB	NM18	24.68	53.6	0.25	2
2010	OH	BB	NM19	24.68	54.31	0.25	2
2010	OH	BB	NM20	24.68	55.05	0.25	2
2010	OH	BB	NM21	24.68	55.76	0.25	2

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	OH	BB	NM22	24.68	56.48	0.25	2
2010	OH	BB	NM23	24.68	57.21	0.25	2
2010	OH	BB	NM24	24.68	57.93	0.25	2
2010	OH	BB	NM25	24.68	58.65	0.25	2
2010	OH	BB	NM26	24.68	59.37	0.25	2
2010	OH	BB	NM27	24.68	60.1	0.25	2
2010	OH	BB	NM28	24.68	60.82	0.25	2
2010	OH	BB	NM29	24.68	61.53	0.25	2
2010	OH	BB	NM30	24.68	62.26	0.25	2
2010	OH	BB	NM31	24.68	62.98	0.25	2
2010	OH	BB	NM32	24.68	63.71	0.25	2
2010	OH	BB	NM33	24.68	64.42	0.25	2
2010	OH	BB	NM34	24.68	65.16	0.25	2
2010	OH	BB	NM35	24.68	65.87	0.25	2
2010	OH	BB	NM36	24.68	66.6	0.25	2
2010	OH	BB	NM37	24.68	67.32	0.25	2
2010	OH	BB	NM38	24.68	68.04	0.25	2
2010	OH	BB	NM39	24.68	68.76	0.25	2
2010	OH	BB	NM40	24.68	69.48	0.25	2
2010	OH	BD	EU01	25.55	21.16	0	0.34
2010	OH	BD	NM01	25.55	25.48	0.6	4.8
2010	OH	BD	NM02	25.55	27	0.6	4.8
2010	OH	BD	EU02	25.55	27.14	0	0.26
2010	OH	BD	NM03	25.55	28.54	0.6	4.8
2010	OH	BD	NM04	25.55	30.08	0.6	4.8
2010	OH	BD	NM05	25.55	31.59	0.6	4.8
2010	OH	BD	NM06	25.55	33.13	0.6	4.8
2010	OH	BD	NM07	25.55	34.66	0.6	4.8
2010	OH	BD	NM08	25.55	36.18	0.6	4.8
2010	OH	BD	NM09	25.55	37.72	0.6	4.8
2010	OH	BD	NM10	25.55	39.24	0.6	4.8
2010	OH	BD	NM11	25.55	40.78	0.6	4.8
2010	OH	BD	NM12	25.55	42.31	0.6	4.8
2010	OH	BD	NM13	25.55	43.83	0.6	4.8
2010	OH	BD	NM14	25.55	45.37	0.6	4.8
2010	OH	BD	NM15	25.55	46.89	0.6	4.8
2010	OH	BD	NM16	25.55	48.43	0.6	4.8
2010	OH	BD	NM17	25.55	49.95	0.6	4.8
2010	OH	BD	NM18	25.55	51.48	0.6	4.8
2010	OH	BD	NM19	25.55	53.02	0.6	4.8
2010	OH	BD	NM20	25.55	54.53	0.6	4.8
2010	OH	BD	NM21	25.55	56.07	0.6	4.8
2010	OH	BD	NM22	25.55	57.6	0.6	4.8
2010	OH	BD	NM23	25.55	59.13	0.6	4.8
2010	OH	BD	NM24	25.55	60.67	0.6	4.8
2010	OH	BD	NM25	25.55	62.18	0.6	4.8
2010	OH	BD	NM26	25.55	63.72	0.6	4.8
2010	OH	BD	NM27	25.55	65.26	0.6	4.8
2010	OH	BD	NM28	25.55	66.77	0.6	4.8
2010	OH	BD	NM29	25.55	68.31	0.6	4.8
2010	OH	BD	NM30	25.55	69.84	0.6	4.8
2010	OH	BE	EU01	25.24	21.16	0	1.445
2010	OH	BE	NM01	25.24	22.69	0.5	4
2010	OH	BE	ES02	25.24	23.55	0	0.75
2010	OH	BE	EU03	25.24	23.63	0.47	5.795
2010	OH	BE	NM02	25.24	23.91	0.5	4
2010	OH	BE	ES04	25.24	24.29	0.6	8.372
2010	OH	BE	ES05	25.24	25.06	0	0.161
2010	OH	BE	NM03	25.24	25.14	0.5	4
2010	OH	BE	ES06	25.24	25.93	0.13	1.867
2010	OH	BE	NM04	25.24	26.36	0.5	4
2010	OH	BE	EU07	25.24	27.14	0	2.676
2010	OH	BE	ES08	25.24	27.34	0	0.18
2010	OH	BE	NM05	25.24	27.59	0.5	4
2010	OH	BE	NM06	25.24	28.82	0.5	4
2010	OH	BE	NM07	25.24	30.04	0.5	4
2010	OH	BE	NM08	25.24	31.27	0.5	4
2010	OH	BE	ES09	25.24	32.44	0	0.632
2010	OH	BE	NM09	25.24	32.5	0.5	4
2010	OH	BE	NM10	25.24	33.72	0.5	4
2010	OH	BE	NM11	25.24	34.95	0.5	4
2010	OH	BE	NM12	25.24	36.16	0.5	4
2010	OH	BE	NM13	25.24	37.39	0.5	4
2010	OH	BE	NM14	25.24	38.62	0.5	4
2010	OH	BE	NM15	25.24	39.84	0.5	4
2010	OH	BE	NM16	25.24	41.07	0.5	4
2010	OH	BE	NM17	25.24	42.29	0.5	4

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	OH	BE	NM18	25.24	43.52	0.5	4
2010	OH	BE	NM19	25.24	44.75	0.5	4
2010	OH	BE	NM20	25.24	45.97	0.5	4
2010	OH	BE	NM21	25.24	47.2	0.5	4
2010	OH	BE	NM22	25.24	48.41	0.5	4
2010	OH	BE	NM23	25.24	49.64	0.5	4
2010	OH	BE	NM24	25.24	50.87	0.5	4
2010	OH	BE	NM25	25.24	52.09	0.5	4
2010	OH	BE	NM26	25.24	53.32	0.5	4
2010	OH	BE	NM27	25.24	54.55	0.5	4
2010	OH	BE	NM28	25.24	55.77	0.5	4
2010	OH	BE	NM29	25.24	57	0.5	4
2010	OH	BE	NM30	25.24	58.22	0.5	4
2010	OH	BE	NM31	25.24	59.45	0.5	4
2010	OH	BE	NM32	25.24	60.68	0.5	4
2010	OH	BE	NM33	25.24	61.89	0.5	4
2010	OH	BE	NM34	25.24	63.12	0.5	4
2010	OH	BE	NM35	25.24	64.34	0.5	4
2010	OH	BE	NM36	25.24	65.57	0.5	4
2010	OH	BE	NM37	25.24	66.8	0.5	4
2010	OH	BE	NM38	25.24	68.02	0.5	4
2010	OH	BE	NM39	25.24	69.25	0.5	4
2010	OH	BE	NM40	25.24	70.47	0.5	4
2010	OH	BE	ES10	25.24	76.92	0.03	0.484
2010	OH	BG	EU01	24.34	21.16	0	0.971
2010	OH	BG	ES02	24.34	23.55	0	0.469
2010	OH	BG	EU03	24.34	23.63	1.96	24.079
2010	OH	BG	ES04	24.34	23.72	0	0.446
2010	OH	BG	EU05	24.34	24.06	0.03	0.404
2010	OH	BG	ES06	24.34	24.29	2.92	40.951
2010	OH	BG	ES07	24.34	25.06	0	4.228
2010	OH	BG	ES08	24.34	25.51	0	0.345
2010	OH	BG	ES09	24.34	25.9	0.11	1.533
2010	OH	BG	ES10	24.34	25.93	0.75	10.523
2010	OH	BG	NM01	24.34	26.13	4	80
2010	OH	BG	NM02	24.34	27.12	4	80
2010	OH	BG	ES11	24.34	27.34	0	1.346
2010	OH	BG	NM03	24.34	28.11	4	80
2010	OH	BG	NM04	24.34	29.1	4	80
2010	OH	BG	NM05	24.34	30.09	4	80
2010	OH	BG	NM06	24.34	32.06	4	80
2010	OH	BG	ES12	24.34	32.44	0	0.552
2010	OH	BG	NM07	24.34	34.04	4	80
2010	OH	BG	NM08	24.34	37	4	80
2010	OH	BG	ES13	24.34	37.33	0	0.247
2010	OH	BG	ES14	24.34	38.41	0	2.984
2010	OH	BG	NM09	24.34	39.97	4	80
2010	OH	BG	NM10	24.34	66.99	4	80
2010	OH	BG	ES15	24.34	67.09	0	5.094
2010	OH	BG	ES16	24.34	76.92	0.12	1.751
2010	OH	BH	ES01	23.92	23.72	0	0.307
2010	OH	BH	EU02	23.92	24.06	13.48	166.032
2010	OH	BH	ES03	23.92	24.79	0	1.241
2010	OH	BH	ES04	23.92	25.06	0	0.551
2010	OH	BH	ES05	23.92	25.51	0	19.711
2010	OH	BH	ES06	23.92	25.9	0.3	4.273
2010	OH	BH	ES07	23.92	25.93	0.15	2.16
2010	OH	BH	NM01	23.92	26.13	4	80
2010	OH	BH	NM02	23.92	27.12	4	80
2010	OH	BH	ES08	23.92	27.34	0	1.249
2010	OH	BH	NM03	23.92	28.11	4	80
2010	OH	BH	NM04	23.92	29.1	4	80
2010	OH	BH	NM05	23.92	30.09	4	80
2010	OH	BH	NM06	23.92	32.06	4	80
2010	OH	BH	NM07	23.92	34.04	4	80
2010	OH	BH	ES09	23.92	35.24	0	3.956
2010	OH	BH	NM08	23.92	37	4	80
2010	OH	BH	ES10	23.92	37.33	0	2.822
2010	OH	BH	ES11	23.92	38.41	0	4.369
2010	OH	BH	NM09	23.92	39.97	4	80
2010	OH	BH	NM10	23.92	66.99	4	80
2010	OH	BH	ES12	23.92	67.09	0	10.445
2015	OH	BB	NM01	24.68	40.5	0.25	2
2015	OH	BB	NM02	24.68	41.21	0.25	2
2015	OH	BB	NM03	24.68	41.91	0.25	2
2015	OH	BB	NM04	24.68	42.63	0.25	2
2015	OH	BB	NM05	24.68	43.33	0.25	2

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	OH	BB	NM06	24.68	44.04	0.25	2
2015	OH	BB	NM07	24.68	44.75	0.25	2
2015	OH	BB	NM08	24.68	45.46	0.25	2
2015	OH	BB	NM09	24.68	46.16	0.25	2
2015	OH	BB	NM10	24.68	46.88	0.25	2
2015	OH	BB	NM11	24.68	47.58	0.25	2
2015	OH	BB	NM12	24.68	48.29	0.25	2
2015	OH	BB	NM13	24.68	48.99	0.25	2
2015	OH	BB	NM14	24.68	49.71	0.25	2
2015	OH	BB	NM15	24.68	50.41	0.25	2
2015	OH	BB	NM16	24.68	51.12	0.25	2
2015	OH	BB	NM17	24.68	51.83	0.25	2
2015	OH	BB	NM18	24.68	52.54	0.25	2
2015	OH	BB	NM19	24.68	53.24	0.25	2
2015	OH	BB	NM20	24.68	53.95	0.25	2
2015	OH	BB	NM21	24.68	54.66	0.25	2
2015	OH	BB	NM22	24.68	55.37	0.25	2
2015	OH	BB	NM23	24.68	56.07	0.25	2
2015	OH	BB	NM24	24.68	56.79	0.25	2
2015	OH	BB	NM25	24.68	57.49	0.25	2
2015	OH	BB	NM26	24.68	58.2	0.25	2
2015	OH	BB	NM27	24.68	58.9	0.25	2
2015	OH	BB	NM28	24.68	59.62	0.25	2
2015	OH	BB	NM29	24.68	60.32	0.25	2
2015	OH	BB	NM30	24.68	61.03	0.25	2
2015	OH	BB	NM31	24.68	61.74	0.25	2
2015	OH	BB	NM32	24.68	62.45	0.25	2
2015	OH	BB	NM33	24.68	63.15	0.25	2
2015	OH	BB	NM34	24.68	63.86	0.25	2
2015	OH	BB	NM35	24.68	64.57	0.25	2
2015	OH	BB	NM36	24.68	65.28	0.25	2
2015	OH	BB	NM37	24.68	65.98	0.25	2
2015	OH	BB	NM38	24.68	66.7	0.25	2
2015	OH	BB	NM39	24.68	67.4	0.25	2
2015	OH	BB	NM40	24.68	68.11	0.25	2
2015	OH	BD	EU01	25.55	20.73	0	0.34
2015	OH	BD	NM01	25.55	24.97	0.6	4.8
2015	OH	BD	NM02	25.55	26.46	0.6	4.8
2015	OH	BD	EU02	25.55	26.61	0	0.26
2015	OH	BD	NM03	25.55	27.96	0.6	4.8
2015	OH	BD	NM04	25.55	29.47	0.6	4.8
2015	OH	BD	NM05	25.55	30.97	0.6	4.8
2015	OH	BD	NM06	25.55	32.46	0.6	4.8
2015	OH	BD	NM07	25.55	33.97	0.6	4.8
2015	OH	BD	NM08	25.55	35.47	0.6	4.8
2015	OH	BD	NM09	25.55	36.97	0.6	4.8
2015	OH	BD	NM10	25.55	38.47	0.6	4.8
2015	OH	BD	NM11	25.55	39.96	0.6	4.8
2015	OH	BD	NM12	25.55	41.47	0.6	4.8
2015	OH	BD	NM13	25.55	42.96	0.6	4.8
2015	OH	BD	NM14	25.55	44.47	0.6	4.8
2015	OH	BD	NM15	25.55	45.96	0.6	4.8
2015	OH	BD	NM16	25.55	47.47	0.6	4.8
2015	OH	BD	NM17	25.55	48.96	0.6	4.8
2015	OH	BD	NM18	25.55	50.45	0.6	4.8
2015	OH	BD	NM19	25.55	51.97	0.6	4.8
2015	OH	BD	NM20	25.55	53.46	0.6	4.8
2015	OH	BD	NM21	25.55	54.96	0.6	4.8
2015	OH	BD	NM22	25.55	56.46	0.6	4.8
2015	OH	BD	NM23	25.55	57.97	0.6	4.8
2015	OH	BD	NM24	25.55	59.46	0.6	4.8
2015	OH	BD	NM25	25.55	60.95	0.6	4.8
2015	OH	BD	NM26	25.55	62.46	0.6	4.8
2015	OH	BD	NM27	25.55	63.96	0.6	4.8
2015	OH	BD	NM28	25.55	65.46	0.6	4.8
2015	OH	BD	NM29	25.55	66.95	0.6	4.8
2015	OH	BD	NM30	25.55	68.45	0.6	4.8
2015	OH	BE	EU01	25.24	20.73	0	1.445
2015	OH	BE	NM01	25.24	22.24	0.5	4
2015	OH	BE	ES02	25.24	23.09	0	0.75
2015	OH	BE	EU03	25.24	23.16	0.47	5.795
2015	OH	BE	NM02	25.24	23.44	0.5	4
2015	OH	BE	ES04	25.24	23.81	0	8.372
2015	OH	BE	ES05	25.24	24.56	0	0.161
2015	OH	BE	NM03	25.24	24.65	0.5	4
2015	OH	BE	ES06	25.24	25.42	0	1.867
2015	OH	BE	NM04	25.24	25.84	0.5	4

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	OH	BE	EU07	25.24	26.61	0	2.676
2015	OH	BE	ES08	25.24	26.8	0	0.18
2015	OH	BE	NM05	25.24	27.04	0.5	4
2015	OH	BE	NM06	25.24	28.25	0.5	4
2015	OH	BE	NM07	25.24	29.44	0.5	4
2015	OH	BE	NM08	25.24	30.64	0.5	4
2015	OH	BE	ES09	25.24	31.8	0	0.632
2015	OH	BE	NM09	25.24	31.85	0.5	4
2015	OH	BE	NM10	25.24	33.05	0.5	4
2015	OH	BE	NM11	25.24	34.25	0.5	4
2015	OH	BE	NM12	25.24	35.45	0.5	4
2015	OH	BE	NM13	25.24	36.65	0.5	4
2015	OH	BE	NM14	25.24	37.85	0.5	4
2015	OH	BE	NM15	25.24	39.05	0.5	4
2015	OH	BE	NM16	25.24	40.25	0.5	4
2015	OH	BE	NM17	25.24	41.46	0.5	4
2015	OH	BE	NM18	25.24	42.65	0.5	4
2015	OH	BE	NM19	25.24	43.85	0.5	4
2015	OH	BE	NM20	25.24	45.06	0.5	4
2015	OH	BE	NM21	25.24	46.26	0.5	4
2015	OH	BE	NM22	25.24	47.46	0.5	4
2015	OH	BE	NM23	25.24	48.66	0.5	4
2015	OH	BE	NM24	25.24	49.86	0.5	4
2015	OH	BE	NM25	25.24	51.06	0.5	4
2015	OH	BE	NM26	25.24	52.26	0.5	4
2015	OH	BE	NM27	25.24	53.46	0.5	4
2015	OH	BE	NM28	25.24	54.67	0.5	4
2015	OH	BE	NM29	25.24	55.86	0.5	4
2015	OH	BE	NM30	25.24	57.06	0.5	4
2015	OH	BE	NM31	25.24	58.27	0.5	4
2015	OH	BE	NM32	25.24	59.47	0.5	4
2015	OH	BE	NM33	25.24	60.67	0.5	4
2015	OH	BE	NM34	25.24	61.87	0.5	4
2015	OH	BE	NM35	25.24	63.07	0.5	4
2015	OH	BE	NM36	25.24	64.27	0.5	4
2015	OH	BE	NM37	25.24	65.47	0.5	4
2015	OH	BE	NM38	25.24	66.67	0.5	4
2015	OH	BE	NM39	25.24	67.88	0.5	4
2015	OH	BE	NM40	25.24	69.07	0.5	4
2015	OH	BE	ES10	25.24	75.39	0	0.484
2015	OH	BG	EU01	24.34	20.73	0	0.971
2015	OH	BG	ES02	24.34	23.09	0	0.469
2015	OH	BG	EU03	24.34	23.16	1.96	24.079
2015	OH	BG	ES04	24.34	23.25	0	0.446
2015	OH	BG	EU05	24.34	23.58	0.03	0.404
2015	OH	BG	ES06	24.34	23.81	0	40.951
2015	OH	BG	ES07	24.34	24.56	0	4.228
2015	OH	BG	ES08	24.34	24.99	0	0.345
2015	OH	BG	ES09	24.34	25.38	0	1.533
2015	OH	BG	ES10	24.34	25.42	0	10.523
2015	OH	BG	NM01	24.34	25.62	4	80
2015	OH	BG	NM02	24.34	26.58	4	80
2015	OH	BG	ES11	24.34	26.8	0	1.346
2015	OH	BG	NM03	24.34	27.55	4	80
2015	OH	BG	NM04	24.34	28.52	4	80
2015	OH	BG	NM05	24.34	29.49	4	80
2015	OH	BG	NM06	24.34	31.43	4	80
2015	OH	BG	ES12	24.34	31.8	0	0.552
2015	OH	BG	NM07	24.34	33.36	4	80
2015	OH	BG	NM08	24.34	36.27	4	80
2015	OH	BG	ES13	24.34	36.59	0	0.247
2015	OH	BG	ES14	24.34	37.66	0	2.984
2015	OH	BG	NM09	24.34	39.17	4	80
2015	OH	BG	NM10	24.34	65.66	4	80
2015	OH	BG	ES15	24.34	65.76	0	5.094
2015	OH	BG	ES16	24.34	75.39	0	1.751
2015	OH	BH	ES01	23.92	23.25	0	0.307
2015	OH	BH	EU02	23.92	23.58	13.48	166.032
2015	OH	BH	ES03	23.92	24.3	0	1.241
2015	OH	BH	ES04	23.92	24.56	0	0.551
2015	OH	BH	ES05	23.92	24.99	0	19.711
2015	OH	BH	ES06	23.92	25.38	0	4.273
2015	OH	BH	ES07	23.92	25.42	0	2.16
2015	OH	BH	NM01	23.92	25.62	4	80
2015	OH	BH	NM02	23.92	26.58	4	80
2015	OH	BH	ES08	23.92	26.8	0	1.249
2015	OH	BH	NM03	23.92	27.55	4	80

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	OH	BH	NM04	23.92	28.52	4	80
2015	OH	BH	NM05	23.92	29.49	4	80
2015	OH	BH	NM06	23.92	31.43	4	80
2015	OH	BH	NM07	23.92	33.36	4	80
2015	OH	BH	ES09	23.92	34.55	0	3.956
2015	OH	BH	NM08	23.92	36.27	4	80
2015	OH	BH	ES10	23.92	36.59	0	2.822
2015	OH	BH	ES11	23.92	37.66	0	4.369
2015	OH	BH	NM09	23.92	39.17	4	80
2015	OH	BH	NM10	23.92	65.66	4	80
2015	OH	BH	ES12	23.92	65.76	0	10.445
2020	OH	BB	NM01	24.68	39.7	0.25	2
2020	OH	BB	NM02	24.68	40.39	0.25	2
2020	OH	BB	NM03	24.68	41.08	0.25	2
2020	OH	BB	NM04	24.68	41.78	0.25	2
2020	OH	BB	NM05	24.68	42.47	0.25	2
2020	OH	BB	NM06	24.68	43.16	0.25	2
2020	OH	BB	NM07	24.68	43.85	0.25	2
2020	OH	BB	NM08	24.68	44.56	0.25	2
2020	OH	BB	NM09	24.68	45.25	0.25	2
2020	OH	BB	NM10	24.68	45.94	0.25	2
2020	OH	BB	NM11	24.68	46.63	0.25	2
2020	OH	BB	NM12	24.68	47.33	0.25	2
2020	OH	BB	NM13	24.68	48.02	0.25	2
2020	OH	BB	NM14	24.68	48.71	0.25	2
2020	OH	BB	NM15	24.68	49.41	0.25	2
2020	OH	BB	NM16	24.68	50.11	0.25	2
2020	OH	BB	NM17	24.68	50.8	0.25	2
2020	OH	BB	NM18	24.68	51.49	0.25	2
2020	OH	BB	NM19	24.68	52.18	0.25	2
2020	OH	BB	NM20	24.68	52.88	0.25	2
2020	OH	BB	NM21	24.68	53.56	0.25	2
2020	OH	BB	NM22	24.68	54.27	0.25	2
2020	OH	BB	NM23	24.68	54.96	0.25	2
2020	OH	BB	NM24	24.68	55.66	0.25	2
2020	OH	BB	NM25	24.68	56.34	0.25	2
2020	OH	BB	NM26	24.68	57.04	0.25	2
2020	OH	BB	NM27	24.68	57.73	0.25	2
2020	OH	BB	NM28	24.68	58.44	0.25	2
2020	OH	BB	NM29	24.68	59.12	0.25	2
2020	OH	BB	NM30	24.68	59.82	0.25	2
2020	OH	BB	NM31	24.68	60.51	0.25	2
2020	OH	BB	NM32	24.68	61.21	0.25	2
2020	OH	BB	NM33	24.68	61.89	0.25	2
2020	OH	BB	NM34	24.68	62.59	0.25	2
2020	OH	BB	NM35	24.68	63.28	0.25	2
2020	OH	BB	NM36	24.68	63.98	0.25	2
2020	OH	BB	NM37	24.68	64.67	0.25	2
2020	OH	BB	NM38	24.68	65.37	0.25	2
2020	OH	BB	NM39	24.68	66.06	0.25	2
2020	OH	BB	NM40	24.68	66.75	0.25	2
2020	OH	BD	EU01	25.55	20.32	0	0.34
2020	OH	BD	NM01	25.55	24.47	0.6	4.8
2020	OH	BD	NM02	25.55	25.95	0.6	4.8
2020	OH	BD	EU02	25.55	26.09	0	0.26
2020	OH	BD	NM03	25.55	27.41	0.6	4.8
2020	OH	BD	NM04	25.55	28.88	0.6	4.8
2020	OH	BD	NM05	25.55	30.34	0.6	4.8
2020	OH	BD	NM06	25.55	31.83	0.6	4.8
2020	OH	BD	NM07	25.55	33.29	0.6	4.8
2020	OH	BD	NM08	25.55	34.76	0.6	4.8
2020	OH	BD	NM09	25.55	36.23	0.6	4.8
2020	OH	BD	NM10	25.55	37.7	0.6	4.8
2020	OH	BD	NM11	25.55	39.17	0.6	4.8
2020	OH	BD	NM12	25.55	40.64	0.6	4.8
2020	OH	BD	NM13	25.55	42.12	0.6	4.8
2020	OH	BD	NM14	25.55	43.59	0.6	4.8
2020	OH	BD	NM15	25.55	45.05	0.6	4.8
2020	OH	BD	NM16	25.55	46.52	0.6	4.8
2020	OH	BD	NM17	25.55	47.99	0.6	4.8
2020	OH	BD	NM18	25.55	49.46	0.6	4.8
2020	OH	BD	NM19	25.55	50.93	0.6	4.8
2020	OH	BD	NM20	25.55	52.39	0.6	4.8
2020	OH	BD	NM21	25.55	53.87	0.6	4.8
2020	OH	BD	NM22	25.55	55.34	0.6	4.8
2020	OH	BD	NM23	25.55	56.81	0.6	4.8
2020	OH	BD	NM24	25.55	58.28	0.6	4.8

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	OH	BD	NM25	25.55	59.75	0.6	4.8
2020	OH	BD	NM26	25.55	61.22	0.6	4.8
2020	OH	BD	NM27	25.55	62.69	0.6	4.8
2020	OH	BD	NM28	25.55	64.15	0.6	4.8
2020	OH	BD	NM29	25.55	65.64	0.6	4.8
2020	OH	BD	NM30	25.55	67.1	0.6	4.8
2020	OH	BE	EU01	25.24	20.32	0	1.445
2020	OH	BE	NM01	25.24	21.8	0.5	4
2020	OH	BE	ES02	25.24	22.63	0	0.75
2020	OH	BE	EU03	25.24	22.71	0	5.795
2020	OH	BE	NM02	25.24	22.98	0.5	4
2020	OH	BE	ES04	25.24	23.33	0	8.372
2020	OH	BE	ES05	25.24	24.08	0	0.161
2020	OH	BE	NM03	25.24	24.16	0.5	4
2020	OH	BE	ES06	25.24	24.9	0	1.867
2020	OH	BE	NM04	25.24	25.33	0.5	4
2020	OH	BE	EU07	25.24	26.09	0	2.676
2020	OH	BE	ES08	25.24	26.26	0	0.18
2020	OH	BE	NM05	25.24	26.51	0.5	4
2020	OH	BE	NM06	25.24	27.68	0.5	4
2020	OH	BE	NM07	25.24	28.86	0.5	4
2020	OH	BE	NM08	25.24	30.04	0.5	4
2020	OH	BE	ES09	25.24	31.17	0	0.632
2020	OH	BE	NM09	25.24	31.21	0.5	4
2020	OH	BE	NM10	25.24	32.39	0.5	4
2020	OH	BE	NM11	25.24	33.57	0.5	4
2020	OH	BE	NM12	25.24	34.75	0.5	4
2020	OH	BE	NM13	25.24	35.93	0.5	4
2020	OH	BE	NM14	25.24	37.1	0.5	4
2020	OH	BE	NM15	25.24	38.28	0.5	4
2020	OH	BE	NM16	25.24	39.45	0.5	4
2020	OH	BE	NM17	25.24	40.63	0.5	4
2020	OH	BE	NM18	25.24	41.8	0.5	4
2020	OH	BE	NM19	25.24	42.99	0.5	4
2020	OH	BE	NM20	25.24	44.17	0.5	4
2020	OH	BE	NM21	25.24	45.34	0.5	4
2020	OH	BE	NM22	25.24	46.52	0.5	4
2020	OH	BE	NM23	25.24	47.69	0.5	4
2020	OH	BE	NM24	25.24	48.87	0.5	4
2020	OH	BE	NM25	25.24	50.05	0.5	4
2020	OH	BE	NM26	25.24	51.22	0.5	4
2020	OH	BE	NM27	25.24	52.4	0.5	4
2020	OH	BE	NM28	25.24	53.58	0.5	4
2020	OH	BE	NM29	25.24	54.76	0.5	4
2020	OH	BE	NM30	25.24	55.94	0.5	4
2020	OH	BE	NM31	25.24	57.11	0.5	4
2020	OH	BE	NM32	25.24	58.29	0.5	4
2020	OH	BE	NM33	25.24	59.46	0.5	4
2020	OH	BE	NM34	25.24	60.64	0.5	4
2020	OH	BE	NM35	25.24	61.81	0.5	4
2020	OH	BE	NM36	25.24	62.99	0.5	4
2020	OH	BE	NM37	25.24	64.18	0.5	4
2020	OH	BE	NM38	25.24	65.35	0.5	4
2020	OH	BE	NM39	25.24	66.53	0.5	4
2020	OH	BE	NM40	25.24	67.7	0.5	4
2020	OH	BE	ES10	25.24	73.9	0	0.484
2020	OH	BG	EU01	24.34	20.32	0	0.971
2020	OH	BG	ES02	24.34	22.63	0	0.469
2020	OH	BG	EU03	24.34	22.71	0	24.079
2020	OH	BG	ES04	24.34	22.8	0	0.446
2020	OH	BG	EU05	24.34	23.11	0.03	0.404
2020	OH	BG	ES06	24.34	23.33	0	40.951
2020	OH	BG	ES07	24.34	24.08	0	4.228
2020	OH	BG	ES08	24.34	24.5	0	0.345
2020	OH	BG	ES09	24.34	24.87	0	1.533
2020	OH	BG	ES10	24.34	24.9	0	10.523
2020	OH	BG	NM01	24.34	25.11	4	80
2020	OH	BG	NM02	24.34	26.06	4	80
2020	OH	BG	ES11	24.34	26.26	0	1.346
2020	OH	BG	NM03	24.34	27.01	4	80
2020	OH	BG	NM04	24.34	27.95	4	80
2020	OH	BG	NM05	24.34	28.9	4	80
2020	OH	BG	NM06	24.34	30.8	4	80
2020	OH	BG	ES12	24.34	31.17	0	0.552
2020	OH	BG	NM07	24.34	32.7	4	80
2020	OH	BG	NM08	24.34	35.55	4	80
2020	OH	BG	ES13	24.34	35.86	0	0.247

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	OH	BG	ES14	24.34	36.91	0	2.984
2020	OH	BG	NM09	24.34	38.4	4	80
2020	OH	BG	NM10	24.34	64.36	4	80
2020	OH	BG	ES15	24.34	64.46	0	5.094
2020	OH	BG	ES16	24.34	73.9	0	1.751
2020	OH	BH	ES01	23.92	22.8	0	0.307
2020	OH	BH	EU02	23.92	23.11	13.48	166.032
2020	OH	BH	ES03	23.92	23.82	0	1.241
2020	OH	BH	ES04	23.92	24.08	0	0.551
2020	OH	BH	ES05	23.92	24.5	0	19.711
2020	OH	BH	ES06	23.92	24.87	0	4.273
2020	OH	BH	ES07	23.92	24.9	0	2.16
2020	OH	BH	NM01	23.92	25.11	4	80
2020	OH	BH	NM02	23.92	26.06	4	80
2020	OH	BH	ES08	23.92	26.26	0	1.249
2020	OH	BH	NM03	23.92	27.01	4	80
2020	OH	BH	NM04	23.92	27.95	4	80
2020	OH	BH	NM05	23.92	28.9	4	80
2020	OH	BH	NM06	23.92	30.8	4	80
2020	OH	BH	NM07	23.92	32.7	4	80
2020	OH	BH	ES09	23.92	33.86	0	3.956
2020	OH	BH	NM08	23.92	35.55	4	80
2020	OH	BH	ES10	23.92	35.86	0	2.822
2020	OH	BH	ES11	23.92	36.91	0	4.369
2020	OH	BH	NM09	23.92	38.4	4	80
2020	OH	BH	NM10	23.92	64.36	4	80
2020	OH	BH	ES12	23.92	64.46	0	10.445
2025	OH	BB	NM01	24.68	38.91	0.25	2
2025	OH	BB	NM02	24.68	39.6	0.25	2
2025	OH	BB	NM03	24.68	40.27	0.25	2
2025	OH	BB	NM04	24.68	40.96	0.25	2
2025	OH	BB	NM05	24.68	41.63	0.25	2
2025	OH	BB	NM06	24.68	42.32	0.25	2
2025	OH	BB	NM07	24.68	42.99	0.25	2
2025	OH	BB	NM08	24.68	43.68	0.25	2
2025	OH	BB	NM09	24.68	44.35	0.25	2
2025	OH	BB	NM10	24.68	45.04	0.25	2
2025	OH	BB	NM11	24.68	45.71	0.25	2
2025	OH	BB	NM12	24.68	46.4	0.25	2
2025	OH	BB	NM13	24.68	47.07	0.25	2
2025	OH	BB	NM14	24.68	47.76	0.25	2
2025	OH	BB	NM15	24.68	48.43	0.25	2
2025	OH	BB	NM16	24.68	49.12	0.25	2
2025	OH	BB	NM17	24.68	49.79	0.25	2
2025	OH	BB	NM18	24.68	50.48	0.25	2
2025	OH	BB	NM19	24.68	51.15	0.25	2
2025	OH	BB	NM20	24.68	51.84	0.25	2
2025	OH	BB	NM21	24.68	52.51	0.25	2
2025	OH	BB	NM22	24.68	53.2	0.25	2
2025	OH	BB	NM23	24.68	53.87	0.25	2
2025	OH	BB	NM24	24.68	54.56	0.25	2
2025	OH	BB	NM25	24.68	55.23	0.25	2
2025	OH	BB	NM26	24.68	55.92	0.25	2
2025	OH	BB	NM27	24.68	56.59	0.25	2
2025	OH	BB	NM28	24.68	57.28	0.25	2
2025	OH	BB	NM29	24.68	57.95	0.25	2
2025	OH	BB	NM30	24.68	58.64	0.25	2
2025	OH	BB	NM31	24.68	59.31	0.25	2
2025	OH	BB	NM32	24.68	60	0.25	2
2025	OH	BB	NM33	24.68	60.67	0.25	2
2025	OH	BB	NM34	24.68	61.36	0.25	2
2025	OH	BB	NM35	24.68	62.03	0.25	2
2025	OH	BB	NM36	24.68	62.72	0.25	2
2025	OH	BB	NM37	24.68	63.39	0.25	2
2025	OH	BB	NM38	24.68	64.08	0.25	2
2025	OH	BB	NM39	24.68	64.75	0.25	2
2025	OH	BB	NM40	24.68	65.44	0.25	2
2025	OH	BD	EU01	25.55	19.92	0	0.34
2025	OH	BD	NM01	25.55	23.99	0.6	4.8
2025	OH	BD	NM02	25.55	25.43	0.6	4.8
2025	OH	BD	EU02	25.55	25.56	0	0.26
2025	OH	BD	NM03	25.55	26.87	0.6	4.8
2025	OH	BD	NM04	25.55	28.31	0.6	4.8
2025	OH	BD	NM05	25.55	29.74	0.6	4.8
2025	OH	BD	NM06	25.55	31.19	0.6	4.8
2025	OH	BD	NM07	25.55	32.63	0.6	4.8
2025	OH	BD	NM08	25.55	34.07	0.6	4.8

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	OH	BD	NM09	25.55	35.52	0.6	4.8
2025	OH	BD	NM10	25.55	36.95	0.6	4.8
2025	OH	BD	NM11	25.55	38.39	0.6	4.8
2025	OH	BD	NM12	25.55	39.83	0.6	4.8
2025	OH	BD	NM13	25.55	41.27	0.6	4.8
2025	OH	BD	NM14	25.55	42.73	0.6	4.8
2025	OH	BD	NM15	25.55	44.14	0.6	4.8
2025	OH	BD	NM16	25.55	45.59	0.6	4.8
2025	OH	BD	NM17	25.55	47.04	0.6	4.8
2025	OH	BD	NM18	25.55	48.47	0.6	4.8
2025	OH	BD	NM19	25.55	49.92	0.6	4.8
2025	OH	BD	NM20	25.55	51.36	0.6	4.8
2025	OH	BD	NM21	25.55	52.79	0.6	4.8
2025	OH	BD	NM22	25.55	54.24	0.6	4.8
2025	OH	BD	NM23	25.55	55.68	0.6	4.8
2025	OH	BD	NM24	25.55	57.12	0.6	4.8
2025	OH	BD	NM25	25.55	58.57	0.6	4.8
2025	OH	BD	NM26	25.55	60	0.6	4.8
2025	OH	BD	NM27	25.55	61.45	0.6	4.8
2025	OH	BD	NM28	25.55	62.89	0.6	4.8
2025	OH	BD	NM29	25.55	64.32	0.6	4.8
2025	OH	BD	NM30	25.55	65.77	0.6	4.8
2025	OH	BE	EU01	25.24	19.92	0	1.445
2025	OH	BE	NM01	25.24	21.37	0.5	4
2025	OH	BE	ES02	25.24	22.17	0	0.75
2025	OH	BE	EU03	25.24	22.26	0	5.795
2025	OH	BE	NM02	25.24	22.52	0.5	4
2025	OH	BE	ES04	25.24	22.87	0	8.372
2025	OH	BE	ES05	25.24	23.6	0	0.161
2025	OH	BE	NM03	25.24	23.68	0.5	4
2025	OH	BE	ES06	25.24	24.41	0	1.867
2025	OH	BE	NM04	25.24	24.83	0.5	4
2025	OH	BE	EU07	25.24	25.56	0	2.676
2025	OH	BE	ES08	25.24	25.74	0	0.18
2025	OH	BE	NM05	25.24	25.98	0.5	4
2025	OH	BE	NM06	25.24	27.13	0.5	4
2025	OH	BE	NM07	25.24	28.29	0.5	4
2025	OH	BE	NM08	25.24	29.44	0.5	4
2025	OH	BE	ES09	25.24	30.56	0	0.632
2025	OH	BE	NM09	25.24	30.6	0.5	4
2025	OH	BE	NM10	25.24	31.75	0.5	4
2025	OH	BE	NM11	25.24	32.91	0.5	4
2025	OH	BE	NM12	25.24	34.06	0.5	4
2025	OH	BE	NM13	25.24	35.22	0.5	4
2025	OH	BE	NM14	25.24	36.36	0.5	4
2025	OH	BE	NM15	25.24	37.52	0.5	4
2025	OH	BE	NM16	25.24	38.67	0.5	4
2025	OH	BE	NM17	25.24	39.83	0.5	4
2025	OH	BE	NM18	25.24	40.98	0.5	4
2025	OH	BE	NM19	25.24	42.14	0.5	4
2025	OH	BE	NM20	25.24	43.29	0.5	4
2025	OH	BE	NM21	25.24	44.45	0.5	4
2025	OH	BE	NM22	25.24	45.59	0.5	4
2025	OH	BE	NM23	25.24	46.75	0.5	4
2025	OH	BE	NM24	25.24	47.9	0.5	4
2025	OH	BE	NM25	25.24	49.06	0.5	4
2025	OH	BE	NM26	25.24	50.21	0.5	4
2025	OH	BE	NM27	25.24	51.36	0.5	4
2025	OH	BE	NM28	25.24	52.52	0.5	4
2025	OH	BE	NM29	25.24	53.66	0.5	4
2025	OH	BE	NM30	25.24	54.82	0.5	4
2025	OH	BE	NM31	25.24	55.97	0.5	4
2025	OH	BE	NM32	25.24	57.13	0.5	4
2025	OH	BE	NM33	25.24	58.28	0.5	4
2025	OH	BE	NM34	25.24	59.44	0.5	4
2025	OH	BE	NM35	25.24	60.59	0.5	4
2025	OH	BE	NM36	25.24	61.75	0.5	4
2025	OH	BE	NM37	25.24	62.89	0.5	4
2025	OH	BE	NM38	25.24	64.05	0.5	4
2025	OH	BE	NM39	25.24	65.2	0.5	4
2025	OH	BE	NM40	25.24	66.36	0.5	4
2025	OH	BE	ES10	25.24	72.43	0	0.484
2025	OH	BG	EU01	24.34	19.92	0	0.971
2025	OH	BG	ES02	24.34	22.17	0	0.469
2025	OH	BG	EU03	24.34	22.26	0	24.079
2025	OH	BG	ES04	24.34	22.34	0	0.446
2025	OH	BG	EU05	24.34	22.65	0.03	0.404

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	OH	BG	ES06	24.34	22.87	0	40.951
2025	OH	BG	ES07	24.34	23.6	0	4.228
2025	OH	BG	ES08	24.34	24.01	0	0.345
2025	OH	BG	ES09	24.34	24.38	0	1.533
2025	OH	BG	ES10	24.34	24.41	0	10.523
2025	OH	BG	NM01	24.34	24.61	4	80
2025	OH	BG	NM02	24.34	25.54	4	80
2025	OH	BG	ES11	24.34	25.74	0	1.346
2025	OH	BG	NM03	24.34	26.47	4	80
2025	OH	BG	NM04	24.34	27.4	4	80
2025	OH	BG	NM05	24.34	28.33	4	80
2025	OH	BG	NM06	24.34	30.19	4	80
2025	OH	BG	ES12	24.34	30.56	0	0.552
2025	OH	BG	NM07	24.34	32.05	4	80
2025	OH	BG	NM08	24.34	34.84	4	80
2025	OH	BG	ES13	24.34	35.15	0	0.247
2025	OH	BG	ES14	24.34	36.17	0	2.984
2025	OH	BG	NM09	24.34	37.63	4	80
2025	OH	BG	NM10	24.34	63.08	4	80
2025	OH	BG	ES15	24.34	63.17	0	5.094
2025	OH	BG	ES16	24.34	72.43	0	1.751
2025	OH	BH	ES01	23.92	22.34	0	0.307
2025	OH	BH	EU02	23.92	22.65	13.48	166.032
2025	OH	BH	ES03	23.92	23.34	0	1.241
2025	OH	BH	ES04	23.92	23.6	0	0.551
2025	OH	BH	ES05	23.92	24.01	0	19.711
2025	OH	BH	ES06	23.92	24.38	0	4.273
2025	OH	BH	ES07	23.92	24.41	0	2.16
2025	OH	BH	NM01	23.92	24.61	4	80
2025	OH	BH	NM02	23.92	25.54	4	80
2025	OH	BH	ES08	23.92	25.74	0	1.249
2025	OH	BH	NM03	23.92	26.47	4	80
2025	OH	BH	NM04	23.92	27.4	4	80
2025	OH	BH	NM05	23.92	28.33	4	80
2025	OH	BH	NM06	23.92	30.19	4	80
2025	OH	BH	NM07	23.92	32.05	4	80
2025	OH	BH	ES09	23.92	33.19	0	3.956
2025	OH	BH	NM08	23.92	34.84	4	80
2025	OH	BH	ES10	23.92	35.15	0	2.822
2025	OH	BH	ES11	23.92	36.17	0	4.369
2025	OH	BH	NM09	23.92	37.63	4	80
2025	OH	BH	NM10	23.92	63.08	4	80
2025	OH	BH	ES12	23.92	63.17	0	10.445
2035	OH	BB	NM01	24.68	38.14	0.25	2
2035	OH	BB	NM02	24.68	38.8	0.25	2
2035	OH	BB	NM03	24.68	39.46	0.25	2
2035	OH	BB	NM04	24.68	40.14	0.25	2
2035	OH	BB	NM05	24.68	40.8	0.25	2
2035	OH	BB	NM06	24.68	41.47	0.25	2
2035	OH	BB	NM07	24.68	42.14	0.25	2
2035	OH	BB	NM08	24.68	42.81	0.25	2
2035	OH	BB	NM09	24.68	43.46	0.25	2
2035	OH	BB	NM10	24.68	44.13	0.25	2
2035	OH	BB	NM11	24.68	44.8	0.25	2
2035	OH	BB	NM12	24.68	45.47	0.25	2
2035	OH	BB	NM13	24.68	46.13	0.25	2
2035	OH	BB	NM14	24.68	46.81	0.25	2
2035	OH	BB	NM15	24.68	47.47	0.25	2
2035	OH	BB	NM16	24.68	48.14	0.25	2
2035	OH	BB	NM17	24.68	48.8	0.25	2
2035	OH	BB	NM18	24.68	49.47	0.25	2
2035	OH	BB	NM19	24.68	50.13	0.25	2
2035	OH	BB	NM20	24.68	50.8	0.25	2
2035	OH	BB	NM21	24.68	51.47	0.25	2
2035	OH	BB	NM22	24.68	52.14	0.25	2
2035	OH	BB	NM23	24.68	52.79	0.25	2
2035	OH	BB	NM24	24.68	53.46	0.25	2
2035	OH	BB	NM25	24.68	54.13	0.25	2
2035	OH	BB	NM26	24.68	54.8	0.25	2
2035	OH	BB	NM27	24.68	55.46	0.25	2
2035	OH	BB	NM28	24.68	56.14	0.25	2
2035	OH	BB	NM29	24.68	56.8	0.25	2
2035	OH	BB	NM30	24.68	57.47	0.25	2
2035	OH	BB	NM31	24.68	58.13	0.25	2
2035	OH	BB	NM32	24.68	58.8	0.25	2
2035	OH	BB	NM33	24.68	59.46	0.25	2
2035	OH	BB	NM34	24.68	60.13	0.25	2

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	OH	BB	NM35	24.68	60.8	0.25	2
2035	OH	BB	NM36	24.68	61.47	0.25	2
2035	OH	BB	NM37	24.68	62.13	0.25	2
2035	OH	BB	NM38	24.68	62.81	0.25	2
2035	OH	BB	NM39	24.68	63.46	0.25	2
2035	OH	BB	NM40	24.68	64.13	0.25	2
2035	OH	BD	EU01	25.55	19.52	0	0.34
2035	OH	BD	NM01	25.55	23.51	0.6	4.8
2035	OH	BD	NM02	25.55	24.93	0.6	4.8
2035	OH	BD	EU02	25.55	25.06	0	0.26
2035	OH	BD	NM03	25.55	26.33	0.6	4.8
2035	OH	BD	NM04	25.55	27.76	0.6	4.8
2035	OH	BD	NM05	25.55	29.16	0.6	4.8
2035	OH	BD	NM06	25.55	30.57	0.6	4.8
2035	OH	BD	NM07	25.55	31.98	0.6	4.8
2035	OH	BD	NM08	25.55	33.4	0.6	4.8
2035	OH	BD	NM09	25.55	34.8	0.6	4.8
2035	OH	BD	NM10	25.55	36.22	0.6	4.8
2035	OH	BD	NM11	25.55	37.63	0.6	4.8
2035	OH	BD	NM12	25.55	39.04	0.6	4.8
2035	OH	BD	NM13	25.55	40.45	0.6	4.8
2035	OH	BD	NM14	25.55	41.87	0.6	4.8
2035	OH	BD	NM15	25.55	43.29	0.6	4.8
2035	OH	BD	NM16	25.55	44.7	0.6	4.8
2035	OH	BD	NM17	25.55	46.11	0.6	4.8
2035	OH	BD	NM18	25.55	47.51	0.6	4.8
2035	OH	BD	NM19	25.55	48.94	0.6	4.8
2035	OH	BD	NM20	25.55	50.34	0.6	4.8
2035	OH	BD	NM21	25.55	51.75	0.6	4.8
2035	OH	BD	NM22	25.55	53.17	0.6	4.8
2035	OH	BD	NM23	25.55	54.58	0.6	4.8
2035	OH	BD	NM24	25.55	55.99	0.6	4.8
2035	OH	BD	NM25	25.55	57.4	0.6	4.8
2035	OH	BD	NM26	25.55	58.81	0.6	4.8
2035	OH	BD	NM27	25.55	60.22	0.6	4.8
2035	OH	BD	NM28	25.55	61.63	0.6	4.8
2035	OH	BD	NM29	25.55	63.05	0.6	4.8
2035	OH	BD	NM30	25.55	64.46	0.6	4.8
2035	OH	BE	EU01	25.24	19.52	0	1.445
2035	OH	BE	NM01	25.24	20.95	0.5	4
2035	OH	BE	ES02	25.24	21.74	0	0.75
2035	OH	BE	EU03	25.24	21.82	0	5.795
2035	OH	BE	NM02	25.24	22.07	0.5	4
2035	OH	BE	ES04	25.24	22.42	0	8.372
2035	OH	BE	ES05	25.24	23.13	0	0.161
2035	OH	BE	NM03	25.24	23.21	0.5	4
2035	OH	BE	ES06	25.24	23.93	0	1.867
2035	OH	BE	NM04	25.24	24.34	0.5	4
2035	OH	BE	EU07	25.24	25.06	0	2.676
2035	OH	BE	ES08	25.24	25.24	0	0.18
2035	OH	BE	NM05	25.24	25.46	0.5	4
2035	OH	BE	NM06	25.24	26.6	0.5	4
2035	OH	BE	NM07	25.24	27.72	0.5	4
2035	OH	BE	NM08	25.24	28.86	0.5	4
2035	OH	BE	ES09	25.24	29.94	0	0.632
2035	OH	BE	NM09	25.24	29.99	0.5	4
2035	OH	BE	NM10	25.24	31.12	0.5	4
2035	OH	BE	NM11	25.24	32.25	0.5	4
2035	OH	BE	NM12	25.24	33.38	0.5	4
2035	OH	BE	NM13	25.24	34.51	0.5	4
2035	OH	BE	NM14	25.24	35.64	0.5	4
2035	OH	BE	NM15	25.24	36.78	0.5	4
2035	OH	BE	NM16	25.24	37.9	0.5	4
2035	OH	BE	NM17	25.24	39.04	0.5	4
2035	OH	BE	NM18	25.24	40.16	0.5	4
2035	OH	BE	NM19	25.24	41.3	0.5	4
2035	OH	BE	NM20	25.24	42.43	0.5	4
2035	OH	BE	NM21	25.24	43.55	0.5	4
2035	OH	BE	NM22	25.24	44.69	0.5	4
2035	OH	BE	NM23	25.24	45.82	0.5	4
2035	OH	BE	NM24	25.24	46.95	0.5	4
2035	OH	BE	NM25	25.24	48.08	0.5	4
2035	OH	BE	NM26	25.24	49.22	0.5	4
2035	OH	BE	NM27	25.24	50.34	0.5	4
2035	OH	BE	NM28	25.24	51.48	0.5	4
2035	OH	BE	NM29	25.24	52.61	0.5	4
2035	OH	BE	NM30	25.24	53.73	0.5	4

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	OH	BE	NM31	25.24	54.87	0.5	4
2035	OH	BE	NM32	25.24	55.99	0.5	4
2035	OH	BE	NM33	25.24	57.13	0.5	4
2035	OH	BE	NM34	25.24	58.26	0.5	4
2035	OH	BE	NM35	25.24	59.39	0.5	4
2035	OH	BE	NM36	25.24	60.52	0.5	4
2035	OH	BE	NM37	25.24	61.65	0.5	4
2035	OH	BE	NM38	25.24	62.78	0.5	4
2035	OH	BE	NM39	25.24	63.91	0.5	4
2035	OH	BE	NM40	25.24	65.05	0.5	4
2035	OH	BE	ES10	25.24	70.99	0	0.484
2035	OH	BG	EU01	24.34	19.52	0	0.971
2035	OH	BG	ES02	24.34	21.74	0	0.469
2035	OH	BG	EU03	24.34	21.82	0	24.079
2035	OH	BG	ES04	24.34	21.89	0	0.446
2035	OH	BG	EU05	24.34	22.21	0.03	0.404
2035	OH	BG	ES06	24.34	22.42	0	40.951
2035	OH	BG	ES07	24.34	23.13	0	4.228
2035	OH	BG	ES08	24.34	23.53	0	0.345
2035	OH	BG	ES09	24.34	23.9	0	1.533
2035	OH	BG	ES10	24.34	23.93	0	10.523
2035	OH	BG	NM01	24.34	24.12	4	80
2035	OH	BG	NM02	24.34	25.03	4	80
2035	OH	BG	ES11	24.34	25.24	0	1.346
2035	OH	BG	NM03	24.34	25.94	4	80
2035	OH	BG	NM04	24.34	26.86	4	80
2035	OH	BG	NM05	24.34	27.77	4	80
2035	OH	BG	NM06	24.34	29.59	4	80
2035	OH	BG	ES12	24.34	29.94	0	0.552
2035	OH	BG	NM07	24.34	31.42	4	80
2035	OH	BG	NM08	24.34	34.15	4	80
2035	OH	BG	ES13	24.34	34.46	0	0.247
2035	OH	BG	ES14	24.34	35.46	0	2.984
2035	OH	BG	NM09	24.34	36.89	4	80
2035	OH	BG	NM10	24.34	61.83	4	80
2035	OH	BG	ES15	24.34	61.92	0	5.094
2035	OH	BG	ES16	24.34	70.99	0	1.751
2035	OH	BH	ES01	23.92	21.89	0	0.307
2035	OH	BH	EU02	23.92	22.21	13.48	166.032
2035	OH	BH	ES03	23.92	22.89	0	1.241
2035	OH	BH	ES04	23.92	23.13	0	0.551
2035	OH	BH	ES05	23.92	23.53	0	19.711
2035	OH	BH	ES06	23.92	23.9	0	4.273
2035	OH	BH	ES07	23.92	23.93	0	2.16
2035	OH	BH	NM01	23.92	24.12	4	80
2035	OH	BH	NM02	23.92	25.03	4	80
2035	OH	BH	ES08	23.92	25.24	0	1.249
2035	OH	BH	NM03	23.92	25.94	4	80
2035	OH	BH	NM04	23.92	26.86	4	80
2035	OH	BH	NM05	23.92	27.77	4	80
2035	OH	BH	NM06	23.92	29.59	4	80
2035	OH	BH	NM07	23.92	31.42	4	80
2035	OH	BH	ES09	23.92	32.53	0	3.956
2035	OH	BH	NM08	23.92	34.15	4	80
2035	OH	BH	ES10	23.92	34.46	0	2.822
2035	OH	BH	ES11	23.92	35.46	0	4.369
2035	OH	BH	NM09	23.92	36.89	4	80
2035	OH	BH	NM10	23.92	61.83	4	80
2035	OH	BH	ES12	23.92	61.92	0	10.445
2007	OK	BE	EU01	22.15	24.26	0.3	9.907
2007	OK	BE	ES02	22.15	25.19	0.12	1.221
2007	OK	BE	ES03	22.15	26.36	0.05	0.53
2007	OK	BE	NM01	22.15	38.64	0.3	3.6
2007	OK	BE	NM02	22.15	41.47	0.3	3.6
2007	OK	BE	NM03	22.15	44.29	0.3	3.6
2007	OK	BE	NM04	22.15	47.11	0.3	3.6
2007	OK	BE	NM05	22.15	49.93	0.3	3.6
2008	OK	BE	EU01	22.15	24.17	0.3	9.907
2008	OK	BE	ES02	22.15	25.09	0.12	1.221
2008	OK	BE	ES03	22.15	26.25	0.05	0.53
2008	OK	BE	NM01	22.15	38.48	0.3	3.6
2008	OK	BE	NM02	22.15	41.3	0.3	3.6
2008	OK	BE	NM03	22.15	44.11	0.3	3.6
2008	OK	BE	NM04	22.15	46.92	0.3	3.6
2008	OK	BE	NM05	22.15	49.73	0.3	3.6
2009	OK	BE	EU01	22.15	24.07	0.3	9.907
2009	OK	BE	ES02	22.15	24.99	0.12	1.221

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	OK	BE	ES03	22.15	26.15	0.05	0.53
2009	OK	BE	NM01	22.15	38.34	0.3	3.6
2009	OK	BE	NM02	22.15	41.13	0.3	3.6
2009	OK	BE	NM03	22.15	43.93	0.3	3.6
2009	OK	BE	NM04	22.15	46.73	0.3	3.6
2009	OK	BE	NM05	22.15	49.53	0.3	3.6
2010	OK	BE	EU01	22.15	23.97	0.3	9.907
2010	OK	BE	ES02	22.15	24.89	0.12	1.221
2010	OK	BE	ES03	22.15	26.04	0.05	0.53
2010	OK	BE	NM01	22.15	38.18	0.3	3.6
2010	OK	BE	NM02	22.15	40.97	0.3	3.6
2010	OK	BE	NM03	22.15	43.75	0.3	3.6
2010	OK	BE	NM04	22.15	46.54	0.3	3.6
2010	OK	BE	NM05	22.15	49.34	0.3	3.6
2015	OK	BE	EU01	22.15	23.5	0.3	9.907
2015	OK	BE	ES02	22.15	24.4	0.12	1.221
2015	OK	BE	ES03	22.15	25.53	0	0.53
2015	OK	BE	NM01	22.15	37.42	0.3	3.6
2015	OK	BE	NM02	22.15	40.15	0.3	3.6
2015	OK	BE	NM03	22.15	42.88	0.3	3.6
2015	OK	BE	NM04	22.15	45.63	0.3	3.6
2015	OK	BE	NM05	22.15	48.36	0.3	3.6
2020	OK	BE	EU01	22.15	23.03	0.3	9.907
2020	OK	BE	ES02	22.15	23.91	0.12	1.221
2020	OK	BE	ES03	22.15	25.03	0	0.53
2020	OK	BE	NM01	22.15	36.68	0.3	3.6
2020	OK	BE	NM02	22.15	39.36	0.3	3.6
2020	OK	BE	NM03	22.15	42.04	0.3	3.6
2020	OK	BE	NM04	22.15	44.71	0.3	3.6
2020	OK	BE	NM05	22.15	47.4	0.3	3.6
2025	OK	BE	EU01	22.15	22.57	0.3	9.907
2025	OK	BE	ES02	22.15	23.44	0	1.221
2025	OK	BE	ES03	22.15	24.52	0	0.53
2025	OK	BE	NM01	22.15	35.95	0.3	3.6
2025	OK	BE	NM02	22.15	38.58	0.3	3.6
2025	OK	BE	NM03	22.15	41.2	0.3	3.6
2025	OK	BE	NM04	22.15	43.83	0.3	3.6
2025	OK	BE	NM05	22.15	46.45	0.3	3.6
2035	OK	BE	EU01	22.15	22.13	0.3	9.907
2035	OK	BE	ES02	22.15	22.98	0	1.221
2035	OK	BE	ES03	22.15	24.03	0	0.53
2035	OK	BE	NM01	22.15	35.24	0.3	3.6
2035	OK	BE	NM02	22.15	37.81	0.3	3.6
2035	OK	BE	NM03	22.15	40.39	0.3	3.6
2035	OK	BE	NM04	22.15	42.96	0.3	3.6
2035	OK	BE	NM05	22.15	45.54	0.3	3.6
2007	PC	BB	ES01	23.53	33.75	0.065	1.057
2007	PC	BB	NM01	23.53	38.31	0.5	16
2007	PC	BB	NM02	23.53	43.05	0.5	16
2007	PC	BB	NM03	23.53	47.79	0.5	16
2007	PC	BB	NM04	23.53	52.53	0.5	16
2007	PC	BB	NM05	23.53	57.27	0.5	16
2007	PC	BB	NM06	23.53	62	0.5	16
2007	PC	BB	NM07	23.53	66.74	0.5	16
2007	PC	BB	NM08	23.53	71.48	0.5	16
2007	PC	BB	NM09	23.53	76.22	0.5	16
2007	PC	BB	NM10	23.53	80.95	0.5	16
2007	PC	BD	EU01	25.06	26.61	0.234	3.462
2007	PC	BD	ES02	25.06	33.75	0.216	3.572
2007	PC	BD	NM01	25.06	37.8	0.5	16
2007	PC	BD	NM02	25.06	40.67	0.5	16
2007	PC	BD	NM03	25.06	43.52	0.5	16
2007	PC	BD	NM04	25.06	46.39	0.5	16
2007	PC	BD	NM05	25.06	49.24	0.5	16
2007	PC	BD	NM06	25.06	52.1	0.5	16
2007	PC	BD	NM07	25.06	54.96	0.5	16
2007	PC	BD	NM08	25.06	57.81	0.5	16
2007	PC	BD	NM09	25.06	60.67	0.5	16
2007	PC	BD	NM10	25.06	63.53	0.5	16
2007	PC	BD	NM11	25.06	66.38	0.5	16
2007	PC	BD	NM12	25.06	69.25	0.5	16
2007	PC	BD	NM13	25.06	72.1	0.5	16
2007	PC	BD	NM14	25.06	74.97	0.5	16
2007	PC	BD	NM15	25.06	77.82	0.5	16
2007	PC	BE	EU01	25.66	26.61	4.066	66.013
2007	PC	BE	ES02	25.66	33.75	4.471	119.702
2007	PC	BE	NM01	25.66	35.28	0.5	16

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	PC	BE	NM02	25.66	38.31	0.5	16
2007	PC	BE	NM03	25.66	41.34	0.5	16
2007	PC	BE	NM04	25.66	44.36	0.5	16
2007	PC	BE	NM05	25.66	47.38	0.5	16
2007	PC	BE	NM06	25.66	50.41	0.5	16
2007	PC	BE	NM07	25.66	53.43	0.5	16
2007	PC	BE	NM08	25.66	56.45	0.5	16
2007	PC	BE	NM09	25.66	59.48	0.5	16
2007	PC	BE	NM10	25.66	62.5	0.5	16
2007	PC	BE	NM11	25.66	65.53	0.5	16
2007	PC	BE	NM12	25.66	68.56	0.5	16
2007	PC	BE	NM13	25.66	71.58	0.5	16
2007	PC	BE	NM14	25.66	74.6	0.5	16
2007	PC	BE	NM15	25.66	77.62	0.5	16
2007	PC	BG	EU01	25.33	26.61	0.604	10.871
2007	PC	BG	NM01	25.33	33.02	0.5	30
2007	PC	BG	NM02	25.33	33.64	0.5	30
2007	PC	BG	ES02	25.33	33.75	0.473	11.434
2007	PC	BG	NM03	25.33	34.26	0.5	30
2007	PC	BG	NM04	25.33	34.88	0.5	30
2007	PC	BG	NM05	25.33	35.49	0.5	30
2007	PC	BG	NM06	25.33	36.12	0.5	30
2007	PC	BG	NM07	25.33	36.73	0.5	30
2007	PC	BG	NM08	25.33	37.36	0.5	30
2007	PC	BG	NM09	25.33	37.98	0.5	30
2007	PC	BG	NM10	25.33	38.6	0.5	30
2007	PC	BG	NM11	25.33	39.22	0.5	30
2007	PC	BG	NM12	25.33	39.84	0.5	30
2007	PC	BG	NM13	25.33	40.45	0.5	30
2007	PC	BG	NM14	25.33	41.08	0.5	30
2007	PC	BG	NM15	25.33	41.69	0.5	30
2007	PC	BG	NM16	25.33	42.32	0.5	30
2007	PC	BG	NM17	25.33	42.94	0.5	30
2007	PC	BG	NM18	25.33	43.56	0.5	30
2007	PC	BG	NM19	25.33	44.18	0.5	30
2007	PC	BG	NM20	25.33	44.8	0.5	30
2007	PC	BH	EU01	23.39	26.61	2.29	43.262
2007	PC	BH	NM01	23.39	33.02	0.5	30
2007	PC	BH	ES02	23.39	33.75	0.903	4.194
2007	PC	BH	NM02	23.39	35.48	0.5	30
2007	PC	BH	NM03	23.39	37.96	0.5	30
2007	PC	BH	NM04	23.39	40.42	0.5	30
2007	PC	BH	NM05	23.39	42.9	0.5	30
2008	PC	BB	ES01	23.53	33.62	0.065	1.057
2008	PC	BB	NM01	23.53	38.16	0.5	16
2008	PC	BB	NM02	23.53	42.87	0.5	16
2008	PC	BB	NM03	23.53	47.59	0.5	16
2008	PC	BB	NM04	23.53	52.32	0.5	16
2008	PC	BB	NM05	23.53	57.03	0.5	16
2008	PC	BB	NM06	23.53	61.75	0.5	16
2008	PC	BB	NM07	23.53	66.47	0.5	16
2008	PC	BB	NM08	23.53	71.19	0.5	16
2008	PC	BB	NM09	23.53	75.9	0.5	16
2008	PC	BB	NM10	23.53	80.63	0.5	16
2008	PC	BD	EU01	25.06	26.5	0.234	3.462
2008	PC	BD	ES02	25.06	33.62	0.216	3.572
2008	PC	BD	NM01	25.06	37.66	0.5	16
2008	PC	BD	NM02	25.06	40.51	0.5	16
2008	PC	BD	NM03	25.06	43.34	0.5	16
2008	PC	BD	NM04	25.06	46.2	0.5	16
2008	PC	BD	NM05	25.06	49.04	0.5	16
2008	PC	BD	NM06	25.06	51.89	0.5	16
2008	PC	BD	NM07	25.06	54.73	0.5	16
2008	PC	BD	NM08	25.06	57.59	0.5	16
2008	PC	BD	NM09	25.06	60.43	0.5	16
2008	PC	BD	NM10	25.06	63.27	0.5	16
2008	PC	BD	NM11	25.06	66.12	0.5	16
2008	PC	BD	NM12	25.06	68.97	0.5	16
2008	PC	BD	NM13	25.06	71.81	0.5	16
2008	PC	BD	NM14	25.06	74.67	0.5	16
2008	PC	BD	NM15	25.06	77.51	0.5	16
2008	PC	BE	EU01	25.66	26.5	4.066	66.013
2008	PC	BE	ES02	25.66	33.62	4.471	119.702
2008	PC	BE	NM01	25.66	35.15	0.5	16
2008	PC	BE	NM02	25.66	38.16	0.5	16
2008	PC	BE	NM03	25.66	41.17	0.5	16
2008	PC	BE	NM04	25.66	44.18	0.5	16

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	PC	BE	NM05	25.66	47.19	0.5	16
2008	PC	BE	NM06	25.66	50.21	0.5	16
2008	PC	BE	NM07	25.66	53.22	0.5	16
2008	PC	BE	NM08	25.66	56.23	0.5	16
2008	PC	BE	NM09	25.66	59.24	0.5	16
2008	PC	BE	NM10	25.66	62.25	0.5	16
2008	PC	BE	NM11	25.66	65.27	0.5	16
2008	PC	BE	NM12	25.66	68.28	0.5	16
2008	PC	BE	NM13	25.66	71.29	0.5	16
2008	PC	BE	NM14	25.66	74.3	0.5	16
2008	PC	BE	NM15	25.66	77.32	0.5	16
2008	PC	BG	EU01	25.33	26.5	0.604	10.871
2008	PC	BG	NM01	25.33	32.89	0.5	30
2008	PC	BG	NM02	25.33	33.51	0.5	30
2008	PC	BG	ES02	25.33	33.62	0.473	11.434
2008	PC	BG	NM03	25.33	34.12	0.5	30
2008	PC	BG	NM04	25.33	34.75	0.5	30
2008	PC	BG	NM05	25.33	35.35	0.5	30
2008	PC	BG	NM06	25.33	35.97	0.5	30
2008	PC	BG	NM07	25.33	36.59	0.5	30
2008	PC	BG	NM08	25.33	37.21	0.5	30
2008	PC	BG	NM09	25.33	37.82	0.5	30
2008	PC	BG	NM10	25.33	38.45	0.5	30
2008	PC	BG	NM11	25.33	39.06	0.5	30
2008	PC	BG	NM12	25.33	39.69	0.5	30
2008	PC	BG	NM13	25.33	40.3	0.5	30
2008	PC	BG	NM14	25.33	40.91	0.5	30
2008	PC	BG	NM15	25.33	41.52	0.5	30
2008	PC	BG	NM16	25.33	42.15	0.5	30
2008	PC	BG	NM17	25.33	42.76	0.5	30
2008	PC	BG	NM18	25.33	43.39	0.5	30
2008	PC	BG	NM19	25.33	44	0.5	30
2008	PC	BG	NM20	25.33	44.62	0.5	30
2008	PC	BH	EU01	23.39	26.5	2.29	43.262
2008	PC	BH	NM01	23.39	32.89	0.5	30
2008	PC	BH	ES02	23.39	33.62	0.903	4.194
2008	PC	BH	NM02	23.39	35.35	0.5	30
2008	PC	BH	NM03	23.39	37.8	0.5	30
2008	PC	BH	NM04	23.39	40.27	0.5	30
2008	PC	BH	NM05	23.39	42.73	0.5	30
2009	PC	BB	ES01	23.53	33.49	0.065	1.057
2009	PC	BB	NM01	23.53	38	0.5	16
2009	PC	BB	NM02	23.53	42.71	0.5	16
2009	PC	BB	NM03	23.53	47.4	0.5	16
2009	PC	BB	NM04	23.53	52.1	0.5	16
2009	PC	BB	NM05	23.53	56.81	0.5	16
2009	PC	BB	NM06	23.53	61.5	0.5	16
2009	PC	BB	NM07	23.53	66.21	0.5	16
2009	PC	BB	NM08	23.53	70.91	0.5	16
2009	PC	BB	NM09	23.53	75.6	0.5	16
2009	PC	BB	NM10	23.53	80.31	0.5	16
2009	PC	BD	EU01	25.06	26.39	0.234	3.462
2009	PC	BD	ES02	25.06	33.49	0.216	3.572
2009	PC	BD	NM01	25.06	37.5	0.5	16
2009	PC	BD	NM02	25.06	40.34	0.5	16
2009	PC	BD	NM03	25.06	43.17	0.5	16
2009	PC	BD	NM04	25.06	46.02	0.5	16
2009	PC	BD	NM05	25.06	48.85	0.5	16
2009	PC	BD	NM06	25.06	51.68	0.5	16
2009	PC	BD	NM07	25.06	54.51	0.5	16
2009	PC	BD	NM08	25.06	57.35	0.5	16
2009	PC	BD	NM09	25.06	60.19	0.5	16
2009	PC	BD	NM10	25.06	63.03	0.5	16
2009	PC	BD	NM11	25.06	65.86	0.5	16
2009	PC	BD	NM12	25.06	68.69	0.5	16
2009	PC	BD	NM13	25.06	71.52	0.5	16
2009	PC	BD	NM14	25.06	74.37	0.5	16
2009	PC	BD	NM15	25.06	77.2	0.5	16
2009	PC	BE	EU01	25.66	26.39	4.066	66.013
2009	PC	BE	ES02	25.66	33.49	4.471	119.702
2009	PC	BE	NM01	25.66	35	0.5	16
2009	PC	BE	NM02	25.66	38	0.5	16
2009	PC	BE	NM03	25.66	41	0.5	16
2009	PC	BE	NM04	25.66	44	0.5	16
2009	PC	BE	NM05	25.66	47	0.5	16
2009	PC	BE	NM06	25.66	50.01	0.5	16
2009	PC	BE	NM07	25.66	53.01	0.5	16

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	PC	BE	NM08	25.66	56.01	0.5	16
2009	PC	BE	NM09	25.66	59	0.5	16
2009	PC	BE	NM10	25.66	62	0.5	16
2009	PC	BE	NM11	25.66	65	0.5	16
2009	PC	BE	NM12	25.66	68	0.5	16
2009	PC	BE	NM13	25.66	71.01	0.5	16
2009	PC	BE	NM14	25.66	74.01	0.5	16
2009	PC	BE	NM15	25.66	77.01	0.5	16
2009	PC	BG	EU01	25.33	26.39	0.604	10.871
2009	PC	BG	NM01	25.33	32.75	0.5	30
2009	PC	BG	NM02	25.33	33.38	0.5	30
2009	PC	BG	ES02	25.33	33.49	0.473	11.434
2009	PC	BG	NM03	25.33	33.98	0.5	30
2009	PC	BG	NM04	25.33	34.6	0.5	30
2009	PC	BG	NM05	25.33	35.22	0.5	30
2009	PC	BG	NM06	25.33	35.83	0.5	30
2009	PC	BG	NM07	25.33	36.44	0.5	30
2009	PC	BG	NM08	25.33	37.07	0.5	30
2009	PC	BG	NM09	25.33	37.67	0.5	30
2009	PC	BG	NM10	25.33	38.29	0.5	30
2009	PC	BG	NM11	25.33	38.91	0.5	30
2009	PC	BG	NM12	25.33	39.52	0.5	30
2009	PC	BG	NM13	25.33	40.13	0.5	30
2009	PC	BG	NM14	25.33	40.76	0.5	30
2009	PC	BG	NM15	25.33	41.36	0.5	30
2009	PC	BG	NM16	25.33	41.98	0.5	30
2009	PC	BG	NM17	25.33	42.59	0.5	30
2009	PC	BG	NM18	25.33	43.21	0.5	30
2009	PC	BG	NM19	25.33	43.82	0.5	30
2009	PC	BG	NM20	25.33	44.45	0.5	30
2009	PC	BH	EU01	23.39	26.39	2.29	43.262
2009	PC	BH	NM01	23.39	32.75	0.5	30
2009	PC	BH	ES02	23.39	33.49	0.903	4.194
2009	PC	BH	NM02	23.39	35.2	0.5	30
2009	PC	BH	NM03	23.39	37.66	0.5	30
2009	PC	BH	NM04	23.39	40.1	0.5	30
2009	PC	BH	NM05	23.39	42.55	0.5	30
2010	PC	BB	ES01	23.53	33.35	0.065	1.057
2010	PC	BB	NM01	23.53	37.85	0.5	16
2010	PC	BB	NM02	23.53	42.53	0.5	16
2010	PC	BB	NM03	23.53	47.21	0.5	16
2010	PC	BB	NM04	23.53	51.89	0.5	16
2010	PC	BB	NM05	23.53	56.57	0.5	16
2010	PC	BB	NM06	23.53	61.26	0.5	16
2010	PC	BB	NM07	23.53	65.94	0.5	16
2010	PC	BB	NM08	23.53	70.62	0.5	16
2010	PC	BB	NM09	23.53	75.3	0.5	16
2010	PC	BB	NM10	23.53	79.98	0.5	16
2010	PC	BD	EU01	25.06	26.29	0.234	3.462
2010	PC	BD	ES02	25.06	33.35	0.216	3.572
2010	PC	BD	NM01	25.06	37.36	0.5	16
2010	PC	BD	NM02	25.06	40.19	0.5	16
2010	PC	BD	NM03	25.06	43	0.5	16
2010	PC	BD	NM04	25.06	45.83	0.5	16
2010	PC	BD	NM05	25.06	48.65	0.5	16
2010	PC	BD	NM06	25.06	51.48	0.5	16
2010	PC	BD	NM07	25.06	54.3	0.5	16
2010	PC	BD	NM08	25.06	57.12	0.5	16
2010	PC	BD	NM09	25.06	59.94	0.5	16
2010	PC	BD	NM10	25.06	62.77	0.5	16
2010	PC	BD	NM11	25.06	65.59	0.5	16
2010	PC	BD	NM12	25.06	68.42	0.5	16
2010	PC	BD	NM13	25.06	71.24	0.5	16
2010	PC	BD	NM14	25.06	74.06	0.5	16
2010	PC	BD	NM15	25.06	76.88	0.5	16
2010	PC	BE	EU01	25.66	26.29	4.066	66.013
2010	PC	BE	ES02	25.66	33.35	4.471	119.702
2010	PC	BE	NM01	25.66	34.86	0.5	16
2010	PC	BE	NM02	25.66	37.85	0.5	16
2010	PC	BE	NM03	25.66	40.83	0.5	16
2010	PC	BE	NM04	25.66	43.83	0.5	16
2010	PC	BE	NM05	25.66	46.82	0.5	16
2010	PC	BE	NM06	25.66	49.81	0.5	16
2010	PC	BE	NM07	25.66	52.79	0.5	16
2010	PC	BE	NM08	25.66	55.78	0.5	16
2010	PC	BE	NM09	25.66	58.77	0.5	16
2010	PC	BE	NM10	25.66	61.76	0.5	16

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	PC	BE	NM11	25.66	64.75	0.5	16
2010	PC	BE	NM12	25.66	67.73	0.5	16
2010	PC	BE	NM13	25.66	70.72	0.5	16
2010	PC	BE	NM14	25.66	73.71	0.5	16
2010	PC	BE	NM15	25.66	76.7	0.5	16
2010	PC	BG	EU01	25.33	26.29	0.604	10.871
2010	PC	BG	NM01	25.33	32.62	0.5	30
2010	PC	BG	NM02	25.33	33.24	0.5	30
2010	PC	BG	ES02	25.33	33.35	0.473	11.434
2010	PC	BG	NM03	25.33	33.84	0.5	30
2010	PC	BG	NM04	25.33	34.47	0.5	30
2010	PC	BG	NM05	25.33	35.07	0.5	30
2010	PC	BG	NM06	25.33	35.69	0.5	30
2010	PC	BG	NM07	25.33	36.3	0.5	30
2010	PC	BG	NM08	25.33	36.91	0.5	30
2010	PC	BG	NM09	25.33	37.52	0.5	30
2010	PC	BG	NM10	25.33	38.14	0.5	30
2010	PC	BG	NM11	25.33	38.75	0.5	30
2010	PC	BG	NM12	25.33	39.36	0.5	30
2010	PC	BG	NM13	25.33	39.98	0.5	30
2010	PC	BG	NM14	25.33	40.59	0.5	30
2010	PC	BG	NM15	25.33	41.2	0.5	30
2010	PC	BG	NM16	25.33	41.81	0.5	30
2010	PC	BG	NM17	25.33	42.43	0.5	30
2010	PC	BG	NM18	25.33	43.04	0.5	30
2010	PC	BG	NM19	25.33	43.64	0.5	30
2010	PC	BG	NM20	25.33	44.27	0.5	30
2010	PC	BH	EU01	23.39	26.29	2.29	43.262
2010	PC	BH	NM01	23.39	32.62	0.5	30
2010	PC	BH	ES02	23.39	33.35	0.903	4.194
2010	PC	BH	NM02	23.39	35.06	0.5	30
2010	PC	BH	NM03	23.39	37.5	0.5	30
2010	PC	BH	NM04	23.39	39.94	0.5	30
2010	PC	BH	NM05	23.39	42.38	0.5	30
2015	PC	BB	ES01	23.53	32.68	0.065	1.057
2015	PC	BB	NM01	23.53	37.1	0.5	16
2015	PC	BB	NM02	23.53	41.69	0.5	16
2015	PC	BB	NM03	23.53	46.27	0.5	16
2015	PC	BB	NM04	23.53	50.87	0.5	16
2015	PC	BB	NM05	23.53	55.46	0.5	16
2015	PC	BB	NM06	23.53	60.04	0.5	16
2015	PC	BB	NM07	23.53	64.63	0.5	16
2015	PC	BB	NM08	23.53	69.22	0.5	16
2015	PC	BB	NM09	23.53	73.81	0.5	16
2015	PC	BB	NM10	23.53	78.4	0.5	16
2015	PC	BD	EU01	25.06	25.76	0.234	3.462
2015	PC	BD	ES02	25.06	32.68	0.216	3.572
2015	PC	BD	NM01	25.06	36.61	0.5	16
2015	PC	BD	NM02	25.06	39.38	0.5	16
2015	PC	BD	NM03	25.06	42.15	0.5	16
2015	PC	BD	NM04	25.06	44.92	0.5	16
2015	PC	BD	NM05	25.06	47.68	0.5	16
2015	PC	BD	NM06	25.06	50.45	0.5	16
2015	PC	BD	NM07	25.06	53.22	0.5	16
2015	PC	BD	NM08	25.06	55.99	0.5	16
2015	PC	BD	NM09	25.06	58.76	0.5	16
2015	PC	BD	NM10	25.06	61.52	0.5	16
2015	PC	BD	NM11	25.06	64.29	0.5	16
2015	PC	BD	NM12	25.06	67.06	0.5	16
2015	PC	BD	NM13	25.06	69.83	0.5	16
2015	PC	BD	NM14	25.06	72.59	0.5	16
2015	PC	BD	NM15	25.06	75.36	0.5	16
2015	PC	BE	EU01	25.66	25.76	4.066	66.013
2015	PC	BE	ES02	25.66	32.68	4.471	119.702
2015	PC	BE	NM01	25.66	34.17	0.5	16
2015	PC	BE	NM02	25.66	37.1	0.5	16
2015	PC	BE	NM03	25.66	40.03	0.5	16
2015	PC	BE	NM04	25.66	42.96	0.5	16
2015	PC	BE	NM05	25.66	45.88	0.5	16
2015	PC	BE	NM06	25.66	48.82	0.5	16
2015	PC	BE	NM07	25.66	51.75	0.5	16
2015	PC	BE	NM08	25.66	54.68	0.5	16
2015	PC	BE	NM09	25.66	57.6	0.5	16
2015	PC	BE	NM10	25.66	60.53	0.5	16
2015	PC	BE	NM11	25.66	63.46	0.5	16
2015	PC	BE	NM12	25.66	66.38	0.5	16
2015	PC	BE	NM13	25.66	69.32	0.5	16

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	PC	BE	NM14	25.66	72.25	0.5	16
2015	PC	BE	NM15	25.66	75.18	0.5	16
2015	PC	BG	EU01	25.33	25.76	0.604	10.871
2015	PC	BG	NM01	25.33	31.97	0.5	30
2015	PC	BG	NM02	25.33	32.58	0.5	30
2015	PC	BG	ES02	25.33	32.68	0.473	11.434
2015	PC	BG	NM03	25.33	33.18	0.5	30
2015	PC	BG	NM04	25.33	33.78	0.5	30
2015	PC	BG	NM05	25.33	34.38	0.5	30
2015	PC	BG	NM06	25.33	34.98	0.5	30
2015	PC	BG	NM07	25.33	35.57	0.5	30
2015	PC	BG	NM08	25.33	36.18	0.5	30
2015	PC	BG	NM09	25.33	36.78	0.5	30
2015	PC	BG	NM10	25.33	37.38	0.5	30
2015	PC	BG	NM11	25.33	37.98	0.5	30
2015	PC	BG	NM12	25.33	38.58	0.5	30
2015	PC	BG	NM13	25.33	39.18	0.5	30
2015	PC	BG	NM14	25.33	39.79	0.5	30
2015	PC	BG	NM15	25.33	40.38	0.5	30
2015	PC	BG	NM16	25.33	40.99	0.5	30
2015	PC	BG	NM17	25.33	41.58	0.5	30
2015	PC	BG	NM18	25.33	42.18	0.5	30
2015	PC	BG	NM19	25.33	42.78	0.5	30
2015	PC	BG	NM20	25.33	43.39	0.5	30
2015	PC	BH	EU01	23.39	25.76	2.29	43.262
2015	PC	BH	NM01	23.39	31.97	0.5	30
2015	PC	BH	ES02	23.39	32.68	0.903	4.194
2015	PC	BH	NM02	23.39	34.37	0.5	30
2015	PC	BH	NM03	23.39	36.75	0.5	30
2015	PC	BH	NM04	23.39	39.15	0.5	30
2015	PC	BH	NM05	23.39	41.55	0.5	30
2020	PC	BB	ES01	23.53	32.04	0.065	1.057
2020	PC	BB	NM01	23.53	36.36	0.5	16
2020	PC	BB	NM02	23.53	40.86	0.5	16
2020	PC	BB	NM03	23.53	45.36	0.5	16
2020	PC	BB	NM04	23.53	49.85	0.5	16
2020	PC	BB	NM05	23.53	54.36	0.5	16
2020	PC	BB	NM06	23.53	58.85	0.5	16
2020	PC	BB	NM07	23.53	63.35	0.5	16
2020	PC	BB	NM08	23.53	67.84	0.5	16
2020	PC	BB	NM09	23.53	72.35	0.5	16
2020	PC	BB	NM10	23.53	76.84	0.5	16
2020	PC	BD	EU01	25.06	25.25	0.234	3.462
2020	PC	BD	ES02	25.06	32.04	0.216	3.572
2020	PC	BD	NM01	25.06	35.88	0.5	16
2020	PC	BD	NM02	25.06	38.6	0.5	16
2020	PC	BD	NM03	25.06	41.31	0.5	16
2020	PC	BD	NM04	25.06	44.03	0.5	16
2020	PC	BD	NM05	25.06	46.74	0.5	16
2020	PC	BD	NM06	25.06	49.45	0.5	16
2020	PC	BD	NM07	25.06	52.16	0.5	16
2020	PC	BD	NM08	25.06	54.88	0.5	16
2020	PC	BD	NM09	25.06	57.59	0.5	16
2020	PC	BD	NM10	25.06	60.31	0.5	16
2020	PC	BD	NM11	25.06	63.02	0.5	16
2020	PC	BD	NM12	25.06	65.74	0.5	16
2020	PC	BD	NM13	25.06	68.43	0.5	16
2020	PC	BD	NM14	25.06	71.15	0.5	16
2020	PC	BD	NM15	25.06	73.86	0.5	16
2020	PC	BE	EU01	25.66	25.25	4.066	66.013
2020	PC	BE	ES02	25.66	32.04	4.471	119.702
2020	PC	BE	NM01	25.66	33.5	0.5	16
2020	PC	BE	NM02	25.66	36.36	0.5	16
2020	PC	BE	NM03	25.66	39.24	0.5	16
2020	PC	BE	NM04	25.66	42.1	0.5	16
2020	PC	BE	NM05	25.66	44.98	0.5	16
2020	PC	BE	NM06	25.66	47.85	0.5	16
2020	PC	BE	NM07	25.66	50.72	0.5	16
2020	PC	BE	NM08	25.66	53.59	0.5	16
2020	PC	BE	NM09	25.66	56.46	0.5	16
2020	PC	BE	NM10	25.66	59.33	0.5	16
2020	PC	BE	NM11	25.66	62.2	0.5	16
2020	PC	BE	NM12	25.66	65.07	0.5	16
2020	PC	BE	NM13	25.66	67.94	0.5	16
2020	PC	BE	NM14	25.66	70.81	0.5	16
2020	PC	BE	NM15	25.66	73.69	0.5	16
2020	PC	BG	EU01	25.33	25.25	0.604	10.871

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	PC	BG	NM01	25.33	31.34	0.5	30
2020	PC	BG	NM02	25.33	31.94	0.5	30
2020	PC	BG	ES02	25.33	32.04	0.473	11.434
2020	PC	BG	NM03	25.33	32.52	0.5	30
2020	PC	BG	NM04	25.33	33.11	0.5	30
2020	PC	BG	NM05	25.33	33.7	0.5	30
2020	PC	BG	NM06	25.33	34.29	0.5	30
2020	PC	BG	NM07	25.33	34.87	0.5	30
2020	PC	BG	NM08	25.33	35.46	0.5	30
2020	PC	BG	NM09	25.33	36.05	0.5	30
2020	PC	BG	NM10	25.33	36.64	0.5	30
2020	PC	BG	NM11	25.33	37.22	0.5	30
2020	PC	BG	NM12	25.33	37.82	0.5	30
2020	PC	BG	NM13	25.33	38.4	0.5	30
2020	PC	BG	NM14	25.33	38.99	0.5	30
2020	PC	BG	NM15	25.33	39.57	0.5	30
2020	PC	BG	NM16	25.33	40.18	0.5	30
2020	PC	BG	NM17	25.33	40.76	0.5	30
2020	PC	BG	NM18	25.33	41.35	0.5	30
2020	PC	BG	NM19	25.33	41.94	0.5	30
2020	PC	BG	NM20	25.33	42.53	0.5	30
2020	PC	BH	EU01	23.39	25.25	2.29	43.262
2020	PC	BH	NM01	23.39	31.34	0.5	30
2020	PC	BH	ES02	23.39	32.04	0.903	4.194
2020	PC	BH	NM02	23.39	33.69	0.5	30
2020	PC	BH	NM03	23.39	36.03	0.5	30
2020	PC	BH	NM04	23.39	38.37	0.5	30
2020	PC	BH	NM05	23.39	40.72	0.5	30
2025	PC	BB	ES01	23.53	31.4	0.065	1.057
2025	PC	BB	NM01	23.53	35.64	0.5	16
2025	PC	BB	NM02	23.53	40.05	0.5	16
2025	PC	BB	NM03	23.53	44.46	0.5	16
2025	PC	BB	NM04	23.53	48.87	0.5	16
2025	PC	BB	NM05	23.53	53.27	0.5	16
2025	PC	BB	NM06	23.53	57.69	0.5	16
2025	PC	BB	NM07	23.53	62.09	0.5	16
2025	PC	BB	NM08	23.53	66.51	0.5	16
2025	PC	BB	NM09	23.53	70.91	0.5	16
2025	PC	BB	NM10	23.53	75.31	0.5	16
2025	PC	BD	EU01	25.06	24.75	0.234	3.462
2025	PC	BD	ES02	25.06	31.4	0.216	3.572
2025	PC	BD	NM01	25.06	35.17	0.5	16
2025	PC	BD	NM02	25.06	37.83	0.5	16
2025	PC	BD	NM03	25.06	40.49	0.5	16
2025	PC	BD	NM04	25.06	43.15	0.5	16
2025	PC	BD	NM05	25.06	45.81	0.5	16
2025	PC	BD	NM06	25.06	48.47	0.5	16
2025	PC	BD	NM07	25.06	51.12	0.5	16
2025	PC	BD	NM08	25.06	53.79	0.5	16
2025	PC	BD	NM09	25.06	56.45	0.5	16
2025	PC	BD	NM10	25.06	59.1	0.5	16
2025	PC	BD	NM11	25.06	61.77	0.5	16
2025	PC	BD	NM12	25.06	64.43	0.5	16
2025	PC	BD	NM13	25.06	67.09	0.5	16
2025	PC	BD	NM14	25.06	69.75	0.5	16
2025	PC	BD	NM15	25.06	72.4	0.5	16
2025	PC	BE	EU01	25.66	24.75	4.066	66.013
2025	PC	BE	ES02	25.66	31.4	4.471	119.702
2025	PC	BE	NM01	25.66	32.83	0.5	16
2025	PC	BE	NM02	25.66	35.64	0.5	16
2025	PC	BE	NM03	25.66	38.46	0.5	16
2025	PC	BE	NM04	25.66	41.27	0.5	16
2025	PC	BE	NM05	25.66	44.09	0.5	16
2025	PC	BE	NM06	25.66	46.9	0.5	16
2025	PC	BE	NM07	25.66	49.71	0.5	16
2025	PC	BE	NM08	25.66	52.53	0.5	16
2025	PC	BE	NM09	25.66	55.34	0.5	16
2025	PC	BE	NM10	25.66	58.16	0.5	16
2025	PC	BE	NM11	25.66	60.97	0.5	16
2025	PC	BE	NM12	25.66	63.79	0.5	16
2025	PC	BE	NM13	25.66	66.6	0.5	16
2025	PC	BE	NM14	25.66	69.4	0.5	16
2025	PC	BE	NM15	25.66	72.23	0.5	16
2025	PC	BG	EU01	25.33	24.75	0.604	10.871
2025	PC	BG	NM01	25.33	30.72	0.5	30
2025	PC	BG	NM02	25.33	31.3	0.5	30
2025	PC	BG	ES02	25.33	31.4	0.473	11.434

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	PC	BG	NM03	25.33	31.87	0.5	30
2025	PC	BG	NM04	25.33	32.45	0.5	30
2025	PC	BG	NM05	25.33	33.03	0.5	30
2025	PC	BG	NM06	25.33	33.61	0.5	30
2025	PC	BG	NM07	25.33	34.18	0.5	30
2025	PC	BG	NM08	25.33	34.76	0.5	30
2025	PC	BG	NM09	25.33	35.34	0.5	30
2025	PC	BG	NM10	25.33	35.92	0.5	30
2025	PC	BG	NM11	25.33	36.49	0.5	30
2025	PC	BG	NM12	25.33	37.07	0.5	30
2025	PC	BG	NM13	25.33	37.65	0.5	30
2025	PC	BG	NM14	25.33	38.23	0.5	30
2025	PC	BG	NM15	25.33	38.79	0.5	30
2025	PC	BG	NM16	25.33	39.37	0.5	30
2025	PC	BG	NM17	25.33	39.95	0.5	30
2025	PC	BG	NM18	25.33	40.53	0.5	30
2025	PC	BG	NM19	25.33	41.1	0.5	30
2025	PC	BG	NM20	25.33	41.68	0.5	30
2025	PC	BH	EU01	23.39	24.75	2.29	43.262
2025	PC	BH	NM01	23.39	30.72	0.5	30
2025	PC	BH	ES02	23.39	31.4	0.903	4.194
2025	PC	BH	NM02	23.39	33.02	0.5	30
2025	PC	BH	NM03	23.39	35.32	0.5	30
2025	PC	BH	NM04	23.39	37.61	0.5	30
2025	PC	BH	NM05	23.39	39.91	0.5	30
2035	PC	BB	ES01	23.53	30.78	0.065	1.057
2035	PC	BB	NM01	23.53	34.94	0.5	16
2035	PC	BB	NM02	23.53	39.25	0.5	16
2035	PC	BB	NM03	23.53	43.58	0.5	16
2035	PC	BB	NM04	23.53	47.9	0.5	16
2035	PC	BB	NM05	23.53	52.22	0.5	16
2035	PC	BB	NM06	23.53	56.54	0.5	16
2035	PC	BB	NM07	23.53	60.87	0.5	16
2035	PC	BB	NM08	23.53	65.18	0.5	16
2035	PC	BB	NM09	23.53	69.51	0.5	16
2035	PC	BB	NM10	23.53	73.82	0.5	16
2035	PC	BD	EU01	25.06	24.26	0.234	3.462
2035	PC	BD	ES02	25.06	30.78	0.216	3.572
2035	PC	BD	NM01	25.06	34.48	0.5	16
2035	PC	BD	NM02	25.06	37.09	0.5	16
2035	PC	BD	NM03	25.06	39.69	0.5	16
2035	PC	BD	NM04	25.06	42.29	0.5	16
2035	PC	BD	NM05	25.06	44.9	0.5	16
2035	PC	BD	NM06	25.06	47.51	0.5	16
2035	PC	BD	NM07	25.06	50.11	0.5	16
2035	PC	BD	NM08	25.06	52.73	0.5	16
2035	PC	BD	NM09	25.06	55.33	0.5	16
2035	PC	BD	NM10	25.06	57.93	0.5	16
2035	PC	BD	NM11	25.06	60.54	0.5	16
2035	PC	BD	NM12	25.06	63.15	0.5	16
2035	PC	BD	NM13	25.06	65.75	0.5	16
2035	PC	BD	NM14	25.06	68.36	0.5	16
2035	PC	BD	NM15	25.06	70.97	0.5	16
2035	PC	BE	EU01	25.66	24.26	4.066	66.013
2035	PC	BE	ES02	25.66	30.78	4.471	119.702
2035	PC	BE	NM01	25.66	32.17	0.5	16
2035	PC	BE	NM02	25.66	34.94	0.5	16
2035	PC	BE	NM03	25.66	37.69	0.5	16
2035	PC	BE	NM04	25.66	40.45	0.5	16
2035	PC	BE	NM05	25.66	43.21	0.5	16
2035	PC	BE	NM06	25.66	45.97	0.5	16
2035	PC	BE	NM07	25.66	48.73	0.5	16
2035	PC	BE	NM08	25.66	51.48	0.5	16
2035	PC	BE	NM09	25.66	54.24	0.5	16
2035	PC	BE	NM10	25.66	57	0.5	16
2035	PC	BE	NM11	25.66	59.76	0.5	16
2035	PC	BE	NM12	25.66	62.52	0.5	16
2035	PC	BE	NM13	25.66	65.27	0.5	16
2035	PC	BE	NM14	25.66	68.03	0.5	16
2035	PC	BE	NM15	25.66	70.79	0.5	16
2035	PC	BG	EU01	25.33	24.26	0.604	10.871
2035	PC	BG	NM01	25.33	30.11	0.5	30
2035	PC	BG	NM02	25.33	30.68	0.5	30
2035	PC	BG	ES02	25.33	30.78	0.473	11.434
2035	PC	BG	NM03	25.33	31.24	0.5	30
2035	PC	BG	NM04	25.33	31.8	0.5	30
2035	PC	BG	NM05	25.33	32.37	0.5	30

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	PC	BG	NM06	25.33	32.94	0.5	30
2035	PC	BG	NM07	25.33	33.5	0.5	30
2035	PC	BG	NM08	25.33	34.07	0.5	30
2035	PC	BG	NM09	25.33	34.64	0.5	30
2035	PC	BG	NM10	25.33	35.2	0.5	30
2035	PC	BG	NM11	25.33	35.76	0.5	30
2035	PC	BG	NM12	25.33	36.33	0.5	30
2035	PC	BG	NM13	25.33	36.9	0.5	30
2035	PC	BG	NM14	25.33	37.47	0.5	30
2035	PC	BG	NM15	25.33	38.02	0.5	30
2035	PC	BG	NM16	25.33	38.59	0.5	30
2035	PC	BG	NM17	25.33	39.15	0.5	30
2035	PC	BG	NM18	25.33	39.73	0.5	30
2035	PC	BG	NM19	25.33	40.29	0.5	30
2035	PC	BG	NM20	25.33	40.86	0.5	30
2035	PC	BH	EU01	23.39	24.26	2.29	43.262
2035	PC	BH	NM01	23.39	30.11	0.5	30
2035	PC	BH	ES02	23.39	30.78	0.903	4.194
2035	PC	BH	NM02	23.39	32.36	0.5	30
2035	PC	BH	NM03	23.39	34.61	0.5	30
2035	PC	BH	NM04	23.39	36.87	0.5	30
2035	PC	BH	NM05	23.39	39.12	0.5	30
2007	PW	BB	EU01	20.17	27.02	0.009	0.098
2007	PW	BB	ES02	20.17	27.16	0	0.021
2007	PW	BB	NM01	20.17	53.76	0.25	2.5
2007	PW	BB	NM02	20.17	56.38	0.25	2.5
2007	PW	BB	NM03	20.17	59	0.25	2.5
2007	PW	BB	NM04	20.17	61.62	0.25	2.5
2007	PW	BB	NM05	20.17	64.24	0.25	2.5
2007	PW	BD	EU01	24.26	20.98	0.02	0.222
2007	PW	BD	EU02	24.26	26.44	0.01	0.111
2007	PW	BD	EU03	24.26	27.02	0.005	0.056
2007	PW	BD	ES04	24.26	27.16	0.008	0.587
2007	PW	BD	EU05	24.26	28.57	0.059	0.666
2007	PW	BD	EU06	24.26	36.29	0.19	2.165
2007	PW	BD	NM01	24.26	50.41	0.38	3.76
2007	PW	BD	NM02	24.26	52.93	0.38	3.76
2007	PW	BD	NM03	24.26	55.45	0.38	3.76
2007	PW	BD	NM04	24.26	57.97	0.38	3.76
2007	PW	BD	NM05	24.26	60.5	0.38	3.76
2007	PW	BE	EU01	26.22	20.98	13.75	217.509
2007	PW	BE	EU02	26.22	25.83	6.698	105.958
2007	PW	BE	EU03	26.22	26.44	3.084	48.784
2007	PW	BE	EU04	26.22	27.02	0.55	8.7
2007	PW	BE	ES05	26.22	27.16	0.382	27.425
2007	PW	BE	NM01	26.22	27.36	2	80
2007	PW	BE	NM02	26.22	28.36	2	80
2007	PW	BE	EU06	26.22	28.57	7.484	118.387
2007	PW	BE	NM03	26.22	30.36	2	80
2007	PW	BE	NM04	26.22	32.36	2	80
2007	PW	BE	EU07	26.22	36.29	2.711	42.88
2007	PW	BE	NM05	26.22	48.92	2	80
2007	PW	BG	EU01	25.86	20.98	1.065	17.719
2007	PW	BG	NM01	25.86	23.74	5	200
2007	PW	BG	NM02	25.86	24.49	5	200
2007	PW	BG	EU02	25.86	25.83	0.813	13.533
2007	PW	BG	EU03	25.86	26.44	1.241	20.643
2007	PW	BG	EU04	25.86	27.02	0.034	0.573
2007	PW	BG	ES05	25.86	27.16	0.066	26.682
2007	PW	BG	EU06	25.86	28.57	0.014	0.229
2007	PW	BG	EU07	25.86	36.29	0.007	0.115
2007	PW	BG	NM03	25.86	44.09	5	200
2007	PW	BH	EU01	24.51	27.02	0.31	1.881
2007	PW	BH	NM01	24.51	33.23	0.25	2.5
2007	PW	BH	NM02	24.51	35.62	0.25	2.5
2007	PW	BH	NM03	24.51	38	0.25	2.5
2007	PW	BH	NM04	24.51	40.39	0.25	2.5
2007	PW	BH	NM05	24.51	42.77	0.25	2.5
2007	PW	BH	NM06	24.51	45.16	0.25	2.5
2007	PW	BH	NM07	24.51	47.56	0.25	2.5
2007	PW	BH	NM08	24.51	49.93	0.25	2.5
2007	PW	BH	NM09	24.51	52.33	0.25	2.5
2007	PW	BH	NM10	24.51	54.71	0.25	2.5
2007	PW	BH	NM11	24.51	57.1	0.25	2.5
2007	PW	BH	NM12	24.51	59.48	0.25	2.5
2007	PW	BH	NM13	24.51	61.87	0.25	2.5
2007	PW	BH	NM14	24.51	64.25	0.25	2.5

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	PW	BH	NM15	24.51	66.65	0.25	2.5
2008	PW	BB	EU01	20.17	26.92	0.009	0.098
2008	PW	BB	ES02	20.17	27.04	0	0.021
2008	PW	BB	NM01	20.17	53.55	0.25	2.5
2008	PW	BB	NM02	20.17	56.16	0.25	2.5
2008	PW	BB	NM03	20.17	58.77	0.25	2.5
2008	PW	BB	NM04	20.17	61.38	0.25	2.5
2008	PW	BB	NM05	20.17	63.99	0.25	2.5
2008	PW	BD	EU01	24.26	20.9	0.02	0.222
2008	PW	BD	EU02	24.26	26.33	0.01	0.111
2008	PW	BD	EU03	24.26	26.92	0.005	0.056
2008	PW	BD	ES04	24.26	27.04	0.008	0.587
2008	PW	BD	EU05	24.26	28.45	0.059	0.666
2008	PW	BD	EU06	24.26	36.14	0.19	2.165
2008	PW	BD	NM01	24.26	50.21	0.38	3.76
2008	PW	BD	NM02	24.26	52.72	0.38	3.76
2008	PW	BD	NM03	24.26	55.23	0.38	3.76
2008	PW	BD	NM04	24.26	57.73	0.38	3.76
2008	PW	BD	NM05	24.26	60.25	0.38	3.76
2008	PW	BE	EU01	26.22	20.9	13.75	217.509
2008	PW	BE	EU02	26.22	25.73	6.698	105.958
2008	PW	BE	EU03	26.22	26.33	3.084	48.784
2008	PW	BE	EU04	26.22	26.92	0.55	8.7
2008	PW	BE	ES05	26.22	27.04	0.382	27.425
2008	PW	BE	NM01	26.22	27.25	2	80
2008	PW	BE	NM02	26.22	28.25	2	80
2008	PW	BE	EU06	26.22	28.45	7.484	118.387
2008	PW	BE	NM03	26.22	30.24	2	80
2008	PW	BE	NM04	26.22	32.23	2	80
2008	PW	BE	EU07	26.22	36.14	2.711	42.88
2008	PW	BE	NM05	26.22	48.72	2	80
2008	PW	BG	EU01	25.86	20.9	1.065	17.719
2008	PW	BG	NM01	25.86	23.65	5	200
2008	PW	BG	NM02	25.86	24.39	5	200
2008	PW	BG	EU02	25.86	25.73	0.813	13.533
2008	PW	BG	EU03	25.86	26.33	1.241	20.643
2008	PW	BG	EU04	25.86	26.92	0.034	0.573
2008	PW	BG	ES05	25.86	27.04	0.066	26.682
2008	PW	BG	EU06	25.86	28.45	0.014	0.229
2008	PW	BG	EU07	25.86	36.14	0.007	0.115
2008	PW	BG	NM03	25.86	43.91	5	200
2008	PW	BH	EU01	24.51	26.92	0.31	1.881
2008	PW	BH	NM01	24.51	33.1	0.25	2.5
2008	PW	BH	NM02	24.51	35.47	0.25	2.5
2008	PW	BH	NM03	24.51	37.86	0.25	2.5
2008	PW	BH	NM04	24.51	40.22	0.25	2.5
2008	PW	BH	NM05	24.51	42.61	0.25	2.5
2008	PW	BH	NM06	24.51	44.98	0.25	2.5
2008	PW	BH	NM07	24.51	47.37	0.25	2.5
2008	PW	BH	NM08	24.51	49.73	0.25	2.5
2008	PW	BH	NM09	24.51	52.11	0.25	2.5
2008	PW	BH	NM10	24.51	54.49	0.25	2.5
2008	PW	BH	NM11	24.51	56.87	0.25	2.5
2008	PW	BH	NM12	24.51	59.24	0.25	2.5
2008	PW	BH	NM13	24.51	61.62	0.25	2.5
2008	PW	BH	NM14	24.51	64	0.25	2.5
2008	PW	BH	NM15	24.51	66.38	0.25	2.5
2009	PW	BB	EU01	20.17	26.81	0.009	0.098
2009	PW	BB	ES02	20.17	26.94	0	0.021
2009	PW	BB	NM01	20.17	53.33	0.25	2.5
2009	PW	BB	NM02	20.17	55.94	0.25	2.5
2009	PW	BB	NM03	20.17	58.54	0.25	2.5
2009	PW	BB	NM04	20.17	61.13	0.25	2.5
2009	PW	BB	NM05	20.17	63.73	0.25	2.5
2009	PW	BD	EU01	24.26	20.81	0.02	0.222
2009	PW	BD	EU02	24.26	26.23	0.01	0.111
2009	PW	BD	EU03	24.26	26.81	0.005	0.056
2009	PW	BD	ES04	24.26	26.94	0.008	0.587
2009	PW	BD	EU05	24.26	28.34	0.059	0.666
2009	PW	BD	EU06	24.26	36	0.19	2.165
2009	PW	BD	NM01	24.26	50.01	0.38	3.76
2009	PW	BD	NM02	24.26	52.51	0.38	3.76
2009	PW	BD	NM03	24.26	55	0.38	3.76
2009	PW	BD	NM04	24.26	57.5	0.38	3.76
2009	PW	BD	NM05	24.26	60.02	0.38	3.76
2009	PW	BE	EU01	26.22	20.81	13.75	217.509
2009	PW	BE	EU02	26.22	25.62	6.698	105.958

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	PW	BE	EU03	26.22	26.23	3.084	48.784
2009	PW	BE	EU04	26.22	26.81	0.55	8.7
2009	PW	BE	ES05	26.22	26.94	0.382	27.425
2009	PW	BE	NM01	26.22	27.14	2	80
2009	PW	BE	NM02	26.22	28.13	2	80
2009	PW	BE	EU06	26.22	28.34	7.484	118.387
2009	PW	BE	NM03	26.22	30.12	2	80
2009	PW	BE	NM04	26.22	32.1	2	80
2009	PW	BE	EU07	26.22	36	2.711	42.88
2009	PW	BE	NM05	26.22	48.53	2	80
2009	PW	BG	EU01	25.86	20.81	1.065	17.719
2009	PW	BG	NM01	25.86	23.55	5	200
2009	PW	BG	NM02	25.86	24.29	5	200
2009	PW	BG	EU02	25.86	25.62	0.813	13.533
2009	PW	BG	EU03	25.86	26.23	1.241	20.643
2009	PW	BG	EU04	25.86	26.81	0.034	0.573
2009	PW	BG	ES05	25.86	26.94	0.066	26.682
2009	PW	BG	EU06	25.86	28.34	0.014	0.229
2009	PW	BG	EU07	25.86	36	0.007	0.115
2009	PW	BG	NM03	25.86	43.74	5	200
2009	PW	BH	EU01	24.51	26.81	0.31	1.881
2009	PW	BH	NM01	24.51	32.96	0.25	2.5
2009	PW	BH	NM02	24.51	35.34	0.25	2.5
2009	PW	BH	NM03	24.51	37.7	0.25	2.5
2009	PW	BH	NM04	24.51	40.06	0.25	2.5
2009	PW	BH	NM05	24.51	42.43	0.25	2.5
2009	PW	BH	NM06	24.51	44.8	0.25	2.5
2009	PW	BH	NM07	24.51	47.18	0.25	2.5
2009	PW	BH	NM08	24.51	49.53	0.25	2.5
2009	PW	BH	NM09	24.51	51.9	0.25	2.5
2009	PW	BH	NM10	24.51	54.28	0.25	2.5
2009	PW	BH	NM11	24.51	56.64	0.25	2.5
2009	PW	BH	NM12	24.51	59	0.25	2.5
2009	PW	BH	NM13	24.51	61.38	0.25	2.5
2009	PW	BH	NM14	24.51	63.74	0.25	2.5
2009	PW	BH	NM15	24.51	66.12	0.25	2.5
2010	PW	BB	EU01	20.17	26.7	0.009	0.098
2010	PW	BB	ES02	20.17	26.83	0	0.021
2010	PW	BB	NM01	20.17	53.12	0.25	2.5
2010	PW	BB	NM02	20.17	55.72	0.25	2.5
2010	PW	BB	NM03	20.17	58.3	0.25	2.5
2010	PW	BB	NM04	20.17	60.89	0.25	2.5
2010	PW	BB	NM05	20.17	63.47	0.25	2.5
2010	PW	BD	EU01	24.26	20.73	0.02	0.222
2010	PW	BD	EU02	24.26	26.12	0.01	0.111
2010	PW	BD	EU03	24.26	26.7	0.005	0.056
2010	PW	BD	ES04	24.26	26.83	0.008	0.587
2010	PW	BD	EU05	24.26	28.23	0.059	0.666
2010	PW	BD	EU06	24.26	35.85	0.19	2.165
2010	PW	BD	NM01	24.26	49.81	0.38	3.76
2010	PW	BD	NM02	24.26	52.29	0.38	3.76
2010	PW	BD	NM03	24.26	54.78	0.38	3.76
2010	PW	BD	NM04	24.26	57.28	0.38	3.76
2010	PW	BD	NM05	24.26	59.77	0.38	3.76
2010	PW	BE	EU01	26.22	20.73	13.75	217.509
2010	PW	BE	EU02	26.22	25.52	6.698	105.958
2010	PW	BE	EU03	26.22	26.12	3.084	48.784
2010	PW	BE	EU04	26.22	26.7	0.55	8.7
2010	PW	BE	ES05	26.22	26.83	0.382	27.425
2010	PW	BE	NM01	26.22	27.03	2	80
2010	PW	BE	NM02	26.22	28.02	2	80
2010	PW	BE	EU06	26.22	28.23	7.484	118.387
2010	PW	BE	NM03	26.22	30	2	80
2010	PW	BE	NM04	26.22	31.97	2	80
2010	PW	BE	EU07	26.22	35.85	2.711	42.88
2010	PW	BE	NM05	26.22	48.34	2	80
2010	PW	BG	EU01	25.86	20.73	1.065	17.719
2010	PW	BG	NM01	25.86	23.46	5	200
2010	PW	BG	NM02	25.86	24.2	5	200
2010	PW	BG	EU02	25.86	25.52	0.813	13.533
2010	PW	BG	EU03	25.86	26.12	1.241	20.643
2010	PW	BG	EU04	25.86	26.7	0.034	0.573
2010	PW	BG	ES05	25.86	26.83	0.066	26.682
2010	PW	BG	EU06	25.86	28.23	0.014	0.229
2010	PW	BG	EU07	25.86	35.85	0.007	0.115
2010	PW	BG	NM03	25.86	43.56	5	200
2010	PW	BH	EU01	24.51	26.7	0.31	1.881

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	PW	BH	NM01	24.51	32.83	0.25	2.5
2010	PW	BH	NM02	24.51	35.19	0.25	2.5
2010	PW	BH	NM03	24.51	37.56	0.25	2.5
2010	PW	BH	NM04	24.51	39.9	0.25	2.5
2010	PW	BH	NM05	24.51	42.26	0.25	2.5
2010	PW	BH	NM06	24.51	44.62	0.25	2.5
2010	PW	BH	NM07	24.51	46.99	0.25	2.5
2010	PW	BH	NM08	24.51	49.34	0.25	2.5
2010	PW	BH	NM09	24.51	51.69	0.25	2.5
2010	PW	BH	NM10	24.51	54.05	0.25	2.5
2010	PW	BH	NM11	24.51	56.42	0.25	2.5
2010	PW	BH	NM12	24.51	58.77	0.25	2.5
2010	PW	BH	NM13	24.51	61.13	0.25	2.5
2010	PW	BH	NM14	24.51	63.49	0.25	2.5
2010	PW	BH	NM15	24.51	65.85	0.25	2.5
2015	PW	BB	EU01	20.17	26.17	0.009	0.098
2015	PW	BB	ES02	20.17	26.3	0	0.021
2015	PW	BB	NM01	20.17	52.07	0.25	2.5
2015	PW	BB	NM02	20.17	54.6	0.25	2.5
2015	PW	BB	NM03	20.17	57.14	0.25	2.5
2015	PW	BB	NM04	20.17	59.68	0.25	2.5
2015	PW	BB	NM05	20.17	62.23	0.25	2.5
2015	PW	BD	EU01	24.26	20.32	0.02	0.222
2015	PW	BD	EU02	24.26	25.61	0.01	0.111
2015	PW	BD	EU03	24.26	26.17	0.005	0.056
2015	PW	BD	ES04	24.26	26.3	0.008	0.587
2015	PW	BD	EU05	24.26	27.67	0.059	0.666
2015	PW	BD	EU06	24.26	35.14	0.19	2.165
2015	PW	BD	NM01	24.26	48.82	0.38	3.76
2015	PW	BD	NM02	24.26	51.26	0.38	3.76
2015	PW	BD	NM03	24.26	53.7	0.38	3.76
2015	PW	BD	NM04	24.26	56.14	0.38	3.76
2015	PW	BD	NM05	24.26	58.59	0.38	3.76
2015	PW	BE	EU01	26.22	20.32	13.75	217.509
2015	PW	BE	EU02	26.22	25.02	6.698	105.958
2015	PW	BE	EU03	26.22	25.61	3.084	48.784
2015	PW	BE	EU04	26.22	26.17	0.55	8.7
2015	PW	BE	ES05	26.22	26.3	0.382	27.425
2015	PW	BE	NM01	26.22	26.5	2	80
2015	PW	BE	NM02	26.22	27.47	2	80
2015	PW	BE	EU06	26.22	27.67	7.484	118.387
2015	PW	BE	NM03	26.22	29.4	2	80
2015	PW	BE	NM04	26.22	31.34	2	80
2015	PW	BE	EU07	26.22	35.14	2.711	42.88
2015	PW	BE	NM05	26.22	47.38	2	80
2015	PW	BG	EU01	25.86	20.32	1.065	17.719
2015	PW	BG	NM01	25.86	22.99	5	200
2015	PW	BG	NM02	25.86	23.72	5	200
2015	PW	BG	EU02	25.86	25.02	0.813	13.533
2015	PW	BG	EU03	25.86	25.61	1.241	20.643
2015	PW	BG	EU04	25.86	26.17	0.034	0.573
2015	PW	BG	ES05	25.86	26.3	0.066	26.682
2015	PW	BG	EU06	25.86	27.67	0.014	0.229
2015	PW	BG	EU07	25.86	35.14	0.007	0.115
2015	PW	BG	NM03	25.86	42.7	5	200
2015	PW	BH	EU01	24.51	26.17	0.31	1.881
2015	PW	BH	NM01	24.51	32.18	0.25	2.5
2015	PW	BH	NM02	24.51	34.49	0.25	2.5
2015	PW	BH	NM03	24.51	36.81	0.25	2.5
2015	PW	BH	NM04	24.51	39.11	0.25	2.5
2015	PW	BH	NM05	24.51	41.42	0.25	2.5
2015	PW	BH	NM06	24.51	43.74	0.25	2.5
2015	PW	BH	NM07	24.51	46.05	0.25	2.5
2015	PW	BH	NM08	24.51	48.36	0.25	2.5
2015	PW	BH	NM09	24.51	50.67	0.25	2.5
2015	PW	BH	NM10	24.51	52.98	0.25	2.5
2015	PW	BH	NM11	24.51	55.3	0.25	2.5
2015	PW	BH	NM12	24.51	57.6	0.25	2.5
2015	PW	BH	NM13	24.51	59.92	0.25	2.5
2015	PW	BH	NM14	24.51	62.23	0.25	2.5
2015	PW	BH	NM15	24.51	64.54	0.25	2.5
2020	PW	BB	EU01	20.17	25.65	0.009	0.098
2020	PW	BB	ES02	20.17	25.77	0	0.021
2020	PW	BB	NM01	20.17	51.03	0.25	2.5
2020	PW	BB	NM02	20.17	53.52	0.25	2.5
2020	PW	BB	NM03	20.17	56.01	0.25	2.5
2020	PW	BB	NM04	20.17	58.5	0.25	2.5

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	PW	BB	NM05	20.17	60.99	0.25	2.5
2020	PW	BD	EU01	24.26	19.92	0.02	0.222
2020	PW	BD	EU02	24.26	25.09	0.01	0.111
2020	PW	BD	EU03	24.26	25.65	0.005	0.056
2020	PW	BD	ES04	24.26	25.77	0.008	0.587
2020	PW	BD	EU05	24.26	27.11	0.059	0.666
2020	PW	BD	EU06	24.26	34.45	0.19	2.165
2020	PW	BD	NM01	24.26	47.85	0.38	3.76
2020	PW	BD	NM02	24.26	50.24	0.38	3.76
2020	PW	BD	NM03	24.26	52.63	0.38	3.76
2020	PW	BD	NM04	24.26	55.02	0.38	3.76
2020	PW	BD	NM05	24.26	57.42	0.38	3.76
2020	PW	BE	EU01	26.22	19.92	13.75	217.509
2020	PW	BE	EU02	26.22	24.51	6.698	105.958
2020	PW	BE	EU03	26.22	25.09	3.084	48.784
2020	PW	BE	EU04	26.22	25.65	0.55	8.7
2020	PW	BE	ES05	26.22	25.77	0.382	27.425
2020	PW	BE	NM01	26.22	25.97	2	80
2020	PW	BE	NM02	26.22	26.92	2	80
2020	PW	BE	EU06	26.22	27.11	7.484	118.387
2020	PW	BE	NM03	26.22	28.82	2	80
2020	PW	BE	NM04	26.22	30.72	2	80
2020	PW	BE	EU07	26.22	34.45	2.711	42.88
2020	PW	BE	NM05	26.22	46.44	2	80
2020	PW	BG	EU01	25.86	19.92	1.065	17.719
2020	PW	BG	NM01	25.86	22.53	5	200
2020	PW	BG	NM02	25.86	23.25	5	200
2020	PW	BG	EU02	25.86	24.51	0.813	13.533
2020	PW	BG	EU03	25.86	25.09	1.241	20.643
2020	PW	BG	EU04	25.86	25.65	0.034	0.573
2020	PW	BG	ES05	25.86	25.77	0.066	26.682
2020	PW	BG	EU06	25.86	27.11	0.014	0.229
2020	PW	BG	EU07	25.86	34.45	0.007	0.115
2020	PW	BG	NM03	25.86	41.85	5	200
2020	PW	BH	EU01	24.51	25.65	0.31	1.881
2020	PW	BH	NM01	24.51	31.54	0.25	2.5
2020	PW	BH	NM02	24.51	33.81	0.25	2.5
2020	PW	BH	NM03	24.51	36.07	0.25	2.5
2020	PW	BH	NM04	24.51	38.34	0.25	2.5
2020	PW	BH	NM05	24.51	40.6	0.25	2.5
2020	PW	BH	NM06	24.51	42.87	0.25	2.5
2020	PW	BH	NM07	24.51	45.14	0.25	2.5
2020	PW	BH	NM08	24.51	47.4	0.25	2.5
2020	PW	BH	NM09	24.51	49.66	0.25	2.5
2020	PW	BH	NM10	24.51	51.94	0.25	2.5
2020	PW	BH	NM11	24.51	54.2	0.25	2.5
2020	PW	BH	NM12	24.51	56.46	0.25	2.5
2020	PW	BH	NM13	24.51	58.73	0.25	2.5
2020	PW	BH	NM14	24.51	61	0.25	2.5
2020	PW	BH	NM15	24.51	63.26	0.25	2.5
2025	PW	BB	EU01	20.17	25.15	0.009	0.098
2025	PW	BB	ES02	20.17	25.26	0	0.021
2025	PW	BB	NM01	20.17	50.02	0.25	2.5
2025	PW	BB	NM02	20.17	52.46	0.25	2.5
2025	PW	BB	NM03	20.17	54.9	0.25	2.5
2025	PW	BB	NM04	20.17	57.33	0.25	2.5
2025	PW	BB	NM05	20.17	59.77	0.25	2.5
2025	PW	BD	EU01	24.26	19.52	0.02	0.222
2025	PW	BD	EU02	24.26	24.6	0.01	0.111
2025	PW	BD	EU03	24.26	25.15	0.005	0.056
2025	PW	BD	ES04	24.26	25.26	0.008	0.587
2025	PW	BD	EU05	24.26	26.58	0.059	0.666
2025	PW	BD	EU06	24.26	33.77	0.19	2.165
2025	PW	BD	NM01	24.26	46.9	0.38	3.76
2025	PW	BD	NM02	24.26	49.24	0.38	3.76
2025	PW	BD	NM03	24.26	51.59	0.38	3.76
2025	PW	BD	NM04	24.26	53.93	0.38	3.76
2025	PW	BD	NM05	24.26	56.28	0.38	3.76
2025	PW	BE	EU01	26.22	19.52	13.75	217.509
2025	PW	BE	EU02	26.22	24.03	6.698	105.958
2025	PW	BE	EU03	26.22	24.6	3.084	48.784
2025	PW	BE	EU04	26.22	25.15	0.55	8.7
2025	PW	BE	ES05	26.22	25.26	0.382	27.425
2025	PW	BE	NM01	26.22	25.46	2	80
2025	PW	BE	NM02	26.22	26.39	2	80
2025	PW	BE	EU06	26.22	26.58	7.484	118.387
2025	PW	BE	NM03	26.22	28.25	2	80

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	PW	BE	NM04	26.22	30.11	2	80
2025	PW	BE	EU07	26.22	33.77	2.711	42.88
2025	PW	BE	NM05	26.22	45.51	2	80
2025	PW	BG	EU01	25.86	19.52	1.065	17.719
2025	PW	BG	NM01	25.86	22.09	5	200
2025	PW	BG	NM02	25.86	22.79	5	200
2025	PW	BG	EU02	25.86	24.03	0.813	13.533
2025	PW	BG	EU03	25.86	24.6	1.241	20.643
2025	PW	BG	EU04	25.86	25.15	0.034	0.573
2025	PW	BG	ES05	25.86	25.26	0.066	26.682
2025	PW	BG	EU06	25.86	26.58	0.014	0.229
2025	PW	BG	EU07	25.86	33.77	0.007	0.115
2025	PW	BG	NM03	25.86	41.02	5	200
2025	PW	BH	EU01	24.51	25.15	0.31	1.881
2025	PW	BH	NM01	24.51	30.91	0.25	2.5
2025	PW	BH	NM02	24.51	33.14	0.25	2.5
2025	PW	BH	NM03	24.51	35.36	0.25	2.5
2025	PW	BH	NM04	24.51	37.58	0.25	2.5
2025	PW	BH	NM05	24.51	39.8	0.25	2.5
2025	PW	BH	NM06	24.51	42.02	0.25	2.5
2025	PW	BH	NM07	24.51	44.24	0.25	2.5
2025	PW	BH	NM08	24.51	46.45	0.25	2.5
2025	PW	BH	NM09	24.51	48.68	0.25	2.5
2025	PW	BH	NM10	24.51	50.9	0.25	2.5
2025	PW	BH	NM11	24.51	53.13	0.25	2.5
2025	PW	BH	NM12	24.51	55.34	0.25	2.5
2025	PW	BH	NM13	24.51	57.57	0.25	2.5
2025	PW	BH	NM14	24.51	59.78	0.25	2.5
2025	PW	BH	NM15	24.51	62	0.25	2.5
2035	PW	BB	EU01	20.17	24.65	0.009	0.098
2035	PW	BB	ES02	20.17	24.76	0	0.021
2035	PW	BB	NM01	20.17	49.03	0.25	2.5
2035	PW	BB	NM02	20.17	51.42	0.25	2.5
2035	PW	BB	NM03	20.17	53.81	0.25	2.5
2035	PW	BB	NM04	20.17	56.19	0.25	2.5
2035	PW	BB	NM05	20.17	58.59	0.25	2.5
2035	PW	BD	EU01	24.26	19.13	0.02	0.222
2035	PW	BD	EU02	24.26	24.11	0.01	0.111
2035	PW	BD	EU03	24.26	24.65	0.005	0.056
2035	PW	BD	ES04	24.26	24.76	0.008	0.587
2035	PW	BD	EU05	24.26	26.05	0.059	0.666
2035	PW	BD	EU06	24.26	33.09	0.19	2.165
2035	PW	BD	NM01	24.26	45.97	0.38	3.76
2035	PW	BD	NM02	24.26	48.27	0.38	3.76
2035	PW	BD	NM03	24.26	50.57	0.38	3.76
2035	PW	BD	NM04	24.26	52.86	0.38	3.76
2035	PW	BD	NM05	24.26	55.17	0.38	3.76
2035	PW	BE	EU01	26.22	19.13	13.75	217.509
2035	PW	BE	EU02	26.22	23.55	6.698	105.958
2035	PW	BE	EU03	26.22	24.11	3.084	48.784
2035	PW	BE	EU04	26.22	24.65	0.55	8.7
2035	PW	BE	ES05	26.22	24.76	0.382	27.425
2035	PW	BE	NM01	26.22	24.95	2	80
2035	PW	BE	NM02	26.22	25.86	2	80
2035	PW	BE	EU06	26.22	26.05	7.484	118.387
2035	PW	BE	NM03	26.22	27.69	2	80
2035	PW	BE	NM04	26.22	29.51	2	80
2035	PW	BE	EU07	26.22	33.09	2.711	42.88
2035	PW	BE	NM05	26.22	44.61	2	80
2035	PW	BG	EU01	25.86	19.13	1.065	17.719
2035	PW	BG	NM01	25.86	21.65	5	200
2035	PW	BG	NM02	25.86	22.33	5	200
2035	PW	BG	EU02	25.86	23.55	0.813	13.533
2035	PW	BG	EU03	25.86	24.11	1.241	20.643
2035	PW	BG	EU04	25.86	24.65	0.034	0.573
2035	PW	BG	ES05	25.86	24.76	0.066	26.682
2035	PW	BG	EU06	25.86	26.05	0.014	0.229
2035	PW	BG	EU07	25.86	33.09	0.007	0.115
2035	PW	BG	NM03	25.86	40.21	5	200
2035	PW	BH	EU01	24.51	24.65	0.31	1.881
2035	PW	BH	NM01	24.51	30.3	0.25	2.5
2035	PW	BH	NM02	24.51	32.48	0.25	2.5
2035	PW	BH	NM03	24.51	34.66	0.25	2.5
2035	PW	BH	NM04	24.51	36.83	0.25	2.5
2035	PW	BH	NM05	24.51	39.01	0.25	2.5
2035	PW	BH	NM06	24.51	41.19	0.25	2.5
2035	PW	BH	NM07	24.51	43.36	0.25	2.5

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	PW	BH	NM08	24.51	45.54	0.25	2.5
2035	PW	BH	NM09	24.51	47.71	0.25	2.5
2035	PW	BH	NM10	24.51	49.9	0.25	2.5
2035	PW	BH	NM11	24.51	52.07	0.25	2.5
2035	PW	BH	NM12	24.51	54.24	0.25	2.5
2035	PW	BH	NM13	24.51	56.42	0.25	2.5
2035	PW	BH	NM14	24.51	58.6	0.25	2.5
2035	PW	BH	NM15	24.51	60.78	0.25	2.5
2007	TN	BB	NM01	24.18	38.24	0.2	2.4
2007	TN	BB	ES01	24.18	43.17	0.093	0.406
2007	TN	BB	NM02	24.18	43.4	0.2	2.4
2007	TN	BB	NM03	24.18	48.56	0.2	2.4
2007	TN	BB	NM04	24.18	53.72	0.2	2.4
2007	TN	BB	NM05	24.18	58.88	0.2	2.4
2007	TN	BD	ES01	23.91	34.12	0.85	5.125
2007	TN	BD	NM01	23.91	37.87	0.2	2.4
2007	TN	BD	NM02	23.91	42.97	0.2	2.4
2007	TN	BD	ES02	23.91	43.17	1.111	6.701
2007	TN	BD	NM03	23.91	48.09	0.2	2.4
2007	TN	BD	NM04	23.91	53.2	0.2	2.4
2007	TN	BD	NM05	23.91	58.31	0.2	2.4
2007	TN	BE	EU01	26.75	30.01	0.545	12.069
2007	TN	BE	NM01	26.75	33.07	0.3	3.6
2007	TN	BE	ES02	26.75	34.12	0.458	5.418
2007	TN	BE	NM02	26.75	35.76	0.3	3.6
2007	TN	BE	ES03	26.75	36.76	0.401	4.741
2007	TN	BE	NM03	26.75	38.44	0.3	3.6
2007	TN	BE	NM04	26.75	41.11	0.3	3.6
2007	TN	BE	NM05	26.75	43.79	0.3	3.6
2007	TN	BE	NM06	26.75	46.47	0.3	3.6
2007	TN	BE	NM07	26.75	49.16	0.3	3.6
2007	TN	BE	NM08	26.75	51.84	0.3	3.6
2008	TN	BB	NM01	24.18	38.08	0.2	2.4
2008	TN	BB	ES01	24.18	43	0.093	0.406
2008	TN	BB	NM02	24.18	43.23	0.2	2.4
2008	TN	BB	NM03	24.18	48.37	0.2	2.4
2008	TN	BB	NM04	24.18	53.51	0.2	2.4
2008	TN	BB	NM05	24.18	58.65	0.2	2.4
2008	TN	BD	ES01	23.91	33.98	0.85	5.125
2008	TN	BD	NM01	23.91	37.71	0.2	2.4
2008	TN	BD	NM02	23.91	42.81	0.2	2.4
2008	TN	BD	ES02	23.91	43	1.111	6.701
2008	TN	BD	NM03	23.91	47.89	0.2	2.4
2008	TN	BD	NM04	23.91	52.98	0.2	2.4
2008	TN	BD	NM05	23.91	58.08	0.2	2.4
2008	TN	BE	EU01	26.75	29.89	0.545	12.069
2008	TN	BE	NM01	26.75	32.94	0.3	3.6
2008	TN	BE	ES02	26.75	33.98	0.458	5.418
2008	TN	BE	NM02	26.75	35.62	0.3	3.6
2008	TN	BE	ES03	26.75	36.62	0.401	4.741
2008	TN	BE	NM03	26.75	38.28	0.3	3.6
2008	TN	BE	NM04	26.75	40.95	0.3	3.6
2008	TN	BE	NM05	26.75	43.62	0.3	3.6
2008	TN	BE	NM06	26.75	46.28	0.3	3.6
2008	TN	BE	NM07	26.75	48.96	0.3	3.6
2008	TN	BE	NM08	26.75	51.64	0.3	3.6
2009	TN	BB	NM01	24.18	37.94	0.2	2.4
2009	TN	BB	ES01	24.18	42.83	0.093	0.406
2009	TN	BB	NM02	24.18	43.05	0.2	2.4
2009	TN	BB	NM03	24.18	48.17	0.2	2.4
2009	TN	BB	NM04	24.18	53.3	0.2	2.4
2009	TN	BB	NM05	24.18	58.41	0.2	2.4
2009	TN	BD	ES01	23.91	33.84	0.85	5.125
2009	TN	BD	NM01	23.91	37.57	0.2	2.4
2009	TN	BD	NM02	23.91	42.63	0.2	2.4
2009	TN	BD	ES02	23.91	42.83	1.111	6.701
2009	TN	BD	NM03	23.91	47.7	0.2	2.4
2009	TN	BD	NM04	23.91	52.77	0.2	2.4
2009	TN	BD	NM05	23.91	57.84	0.2	2.4
2009	TN	BE	EU01	26.75	29.76	0.545	12.069
2009	TN	BE	NM01	26.75	32.81	0.3	3.6
2009	TN	BE	ES02	26.75	33.84	0.458	5.418
2009	TN	BE	NM02	26.75	35.47	0.3	3.6
2009	TN	BE	ES03	26.75	36.47	0.401	4.741
2009	TN	BE	NM03	26.75	38.14	0.3	3.6
2009	TN	BE	NM04	26.75	40.78	0.3	3.6
2009	TN	BE	NM05	26.75	43.44	0.3	3.6

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	TN	BE	NM06	26.75	46.11	0.3	3.6
2009	TN	BE	NM07	26.75	48.76	0.3	3.6
2009	TN	BE	NM08	26.75	51.42	0.3	3.6
2010	TN	BB	NM01	24.18	37.78	0.2	2.4
2010	TN	BB	ES01	24.18	42.66	0.093	0.406
2010	TN	BB	NM02	24.18	42.88	0.2	2.4
2010	TN	BB	NM03	24.18	47.98	0.2	2.4
2010	TN	BB	NM04	24.18	53.08	0.2	2.4
2010	TN	BB	NM05	24.18	58.18	0.2	2.4
2010	TN	BD	ES01	23.91	33.71	0.85	5.125
2010	TN	BD	NM01	23.91	37.41	0.2	2.4
2010	TN	BD	NM02	23.91	42.46	0.2	2.4
2010	TN	BD	ES02	23.91	42.66	1.111	6.701
2010	TN	BD	NM03	23.91	47.51	0.2	2.4
2010	TN	BD	NM04	23.91	52.56	0.2	2.4
2010	TN	BD	NM05	23.91	57.61	0.2	2.4
2010	TN	BE	EU01	26.75	29.65	0.545	12.069
2010	TN	BE	NM01	26.75	32.68	0.3	3.6
2010	TN	BE	ES02	26.75	33.71	0.458	5.418
2010	TN	BE	NM02	26.75	35.33	0.3	3.6
2010	TN	BE	ES03	26.75	36.33	0.401	4.741
2010	TN	BE	NM03	26.75	37.98	0.3	3.6
2010	TN	BE	NM04	26.75	40.62	0.3	3.6
2010	TN	BE	NM05	26.75	43.27	0.3	3.6
2010	TN	BE	NM06	26.75	45.92	0.3	3.6
2010	TN	BE	NM07	26.75	48.57	0.3	3.6
2010	TN	BE	NM08	26.75	51.22	0.3	3.6
2015	TN	BB	NM01	24.18	37.03	0.2	2.4
2015	TN	BB	ES01	24.18	41.81	0.093	0.406
2015	TN	BB	NM02	24.18	42.03	0.2	2.4
2015	TN	BB	NM03	24.18	47.03	0.2	2.4
2015	TN	BB	NM04	24.18	52.03	0.2	2.4
2015	TN	BB	NM05	24.18	57.03	0.2	2.4
2015	TN	BD	ES01	23.91	33.04	0.85	5.125
2015	TN	BD	NM01	23.91	36.68	0.2	2.4
2015	TN	BD	NM02	23.91	41.63	0.2	2.4
2015	TN	BD	ES02	23.91	41.81	1.111	6.701
2015	TN	BD	NM03	23.91	46.57	0.2	2.4
2015	TN	BD	NM04	23.91	51.52	0.2	2.4
2015	TN	BD	NM05	23.91	56.47	0.2	2.4
2015	TN	BE	EU01	26.75	29.06	0.545	12.069
2015	TN	BE	NM01	26.75	32.04	0.3	3.6
2015	TN	BE	ES02	26.75	33.04	0.458	5.418
2015	TN	BE	NM02	26.75	34.62	0.3	3.6
2015	TN	BE	ES03	26.75	35.61	0.401	4.741
2015	TN	BE	NM03	26.75	37.22	0.3	3.6
2015	TN	BE	NM04	26.75	39.82	0.3	3.6
2015	TN	BE	NM05	26.75	42.42	0.3	3.6
2015	TN	BE	NM06	26.75	45	0.3	3.6
2015	TN	BE	NM07	26.75	47.6	0.3	3.6
2015	TN	BE	NM08	26.75	50.2	0.3	3.6
2020	TN	BB	NM01	24.18	36.3	0.2	2.4
2020	TN	BB	ES01	24.18	40.98	0.093	0.406
2020	TN	BB	NM02	24.18	41.2	0.2	2.4
2020	TN	BB	NM03	24.18	46.1	0.2	2.4
2020	TN	BB	NM04	24.18	51	0.2	2.4
2020	TN	BB	NM05	24.18	55.89	0.2	2.4
2020	TN	BD	ES01	23.91	32.38	0.85	5.125
2020	TN	BD	NM01	23.91	35.94	0.2	2.4
2020	TN	BD	NM02	23.91	40.79	0.2	2.4
2020	TN	BD	ES02	23.91	40.98	1.111	6.701
2020	TN	BD	NM03	23.91	45.65	0.2	2.4
2020	TN	BD	NM04	23.91	50.5	0.2	2.4
2020	TN	BD	NM05	23.91	55.35	0.2	2.4
2020	TN	BE	EU01	26.75	28.48	0.545	12.069
2020	TN	BE	NM01	26.75	31.4	0.3	3.6
2020	TN	BE	ES02	26.75	32.38	0.458	5.418
2020	TN	BE	NM02	26.75	33.94	0.3	3.6
2020	TN	BE	ES03	26.75	34.9	0.401	4.741
2020	TN	BE	NM03	26.75	36.49	0.3	3.6
2020	TN	BE	NM04	26.75	39.03	0.3	3.6
2020	TN	BE	NM05	26.75	41.57	0.3	3.6
2020	TN	BE	NM06	26.75	44.11	0.3	3.6
2020	TN	BE	NM07	26.75	46.66	0.3	3.6
2020	TN	BE	NM08	26.75	49.21	0.3	3.6
2025	TN	BB	NM01	24.18	35.57	0.2	2.4
2025	TN	BB	ES01	24.18	40.16	0.093	0.406

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	TN	BB	NM02	24.18	40.38	0.2	2.4
2025	TN	BB	NM03	24.18	45.18	0.2	2.4
2025	TN	BB	NM04	24.18	49.99	0.2	2.4
2025	TN	BB	NM05	24.18	54.79	0.2	2.4
2025	TN	BD	ES01	23.91	31.74	0.85	5.125
2025	TN	BD	NM01	23.91	35.23	0.2	2.4
2025	TN	BD	NM02	23.91	39.99	0.2	2.4
2025	TN	BD	ES02	23.91	40.16	1.111	6.701
2025	TN	BD	NM03	23.91	44.74	0.2	2.4
2025	TN	BD	NM04	23.91	49.5	0.2	2.4
2025	TN	BD	NM05	23.91	54.26	0.2	2.4
2025	TN	BE	EU01	26.75	27.92	0.545	12.069
2025	TN	BE	NM01	26.75	30.78	0.3	3.6
2025	TN	BE	ES02	26.75	31.74	0.458	5.418
2025	TN	BE	NM02	26.75	33.26	0.3	3.6
2025	TN	BE	ES03	26.75	34.21	0.401	4.741
2025	TN	BE	NM03	26.75	35.76	0.3	3.6
2025	TN	BE	NM04	26.75	38.25	0.3	3.6
2025	TN	BE	NM05	26.75	40.74	0.3	3.6
2025	TN	BE	NM06	26.75	43.24	0.3	3.6
2025	TN	BE	NM07	26.75	45.74	0.3	3.6
2025	TN	BE	NM08	26.75	48.22	0.3	3.6
2035	TN	BB	NM01	24.18	34.87	0.2	2.4
2035	TN	BB	ES01	24.18	39.37	0.093	0.406
2035	TN	BB	NM02	24.18	39.57	0.2	2.4
2035	TN	BB	NM03	24.18	44.29	0.2	2.4
2035	TN	BB	NM04	24.18	48.99	0.2	2.4
2035	TN	BB	NM05	24.18	53.7	0.2	2.4
2035	TN	BD	ES01	23.91	31.11	0.85	5.125
2035	TN	BD	NM01	23.91	34.54	0.2	2.4
2035	TN	BD	NM02	23.91	39.19	0.2	2.4
2035	TN	BD	ES02	23.91	39.37	1.111	6.701
2035	TN	BD	NM03	23.91	43.85	0.2	2.4
2035	TN	BD	NM04	23.91	48.51	0.2	2.4
2035	TN	BD	NM05	23.91	53.17	0.2	2.4
2035	TN	BE	EU01	26.75	27.37	0.545	12.069
2035	TN	BE	NM01	26.75	30.17	0.3	3.6
2035	TN	BE	ES02	26.75	31.11	0.458	5.418
2035	TN	BE	NM02	26.75	32.61	0.3	3.6
2035	TN	BE	ES03	26.75	33.53	0.401	4.741
2035	TN	BE	NM03	26.75	35.06	0.3	3.6
2035	TN	BE	NM04	26.75	37.49	0.3	3.6
2035	TN	BE	NM05	26.75	39.94	0.3	3.6
2035	TN	BE	NM06	26.75	42.38	0.3	3.6
2035	TN	BE	NM07	26.75	44.82	0.3	3.6
2035	TN	BE	NM08	26.75	47.28	0.3	3.6
2007	TX	LD	NM01	13.06	14.69	3	150
2007	TX	LD	NM02	13.06	17.26	3	150
2007	TX	LD	NM03	13.06	19.83	3	150
2007	TX	LD	NM04	13.06	22.4	3	150
2007	TX	LE	ES01	13.22	10.34	0.47	6.171
2007	TX	LE	ES02	13.22	11.44	1.18	15.598
2007	TX	LE	NM01	13.22	12.06	5	250
2007	TX	LE	ES03	13.22	12.28	3.2	42.352
2007	TX	LE	ES04	13.22	12.34	10.02	132.802
2007	TX	LE	NM02	13.22	12.76	5	250
2007	TX	LE	ES05	13.22	12.78	7.45	98.708
2007	TX	LE	NM03	13.22	13.47	5	250
2007	TX	LE	NM04	13.22	14.18	5	250
2007	TX	LE	NM05	13.22	14.88	5	250
2007	TX	LE	NM06	13.22	15.58	5	250
2007	TX	LE	NM07	13.22	16.29	5	250
2007	TX	LE	NM08	13.22	17	5	250
2007	TX	LE	NM09	13.22	17.7	5	250
2007	TX	LE	NM10	13.22	18.4	5	250
2007	TX	LE	NM11	13.22	19.12	5	250
2007	TX	LE	NM12	13.22	19.82	5	250
2007	TX	LE	NM13	13.22	20.52	5	250
2007	TX	LE	NM14	13.22	21.24	5	250
2007	TX	LE	NM15	13.22	21.94	5	250
2007	TX	LE	NM16	13.22	22.64	5	250
2007	TX	LE	NM17	13.22	23.34	5	250
2007	TX	LE	NM18	13.22	24.06	5	250
2007	TX	LE	NM19	13.22	24.76	5	250
2007	TX	LE	NM20	13.22	25.46	5	250
2007	TX	LG	ES01	13.12	10.34	10.35	137.185
2007	TX	LG	ES02	13.12	11.44	5.98	79.304

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	TX	LG	ES03	13.12	12.15	7.07	93.691
2007	TX	LG	ES04	13.12	12.28	0.3	4.04
2007	TX	LG	NM01	13.12	12.71	5	200
2007	TX	LG	NM02	13.12	14.02	5	200
2007	TX	LG	NM03	13.12	15.34	5	200
2007	TX	LG	NM04	13.12	16.64	5	200
2007	TX	LG	NM05	13.12	17.96	5	200
2007	TX	LG	NM06	13.12	19.26	5	200
2007	TX	LG	NM07	13.12	20.58	5	200
2007	TX	LG	NM08	13.12	21.88	5	200
2007	TX	LG	NM09	13.12	23.2	5	200
2007	TX	LG	NM10	13.12	24.5	5	200
2008	TX	LD	NM01	13.06	14.63	3	150
2008	TX	LD	NM02	13.06	17.19	3	150
2008	TX	LD	NM03	13.06	19.75	3	150
2008	TX	LD	NM04	13.06	22.31	3	150
2008	TX	LE	ES01	13.22	10.3	0.47	6.171
2008	TX	LE	ES02	13.22	11.39	1.18	15.598
2008	TX	LE	NM01	13.22	12.01	5	250
2008	TX	LE	ES03	13.22	12.24	3.2	42.352
2008	TX	LE	ES04	13.22	12.28	10.02	132.802
2008	TX	LE	NM02	13.22	12.71	5	250
2008	TX	LE	ES05	13.22	12.73	7.45	98.708
2008	TX	LE	NM03	13.22	13.41	5	250
2008	TX	LE	NM04	13.22	14.11	5	250
2008	TX	LE	NM05	13.22	14.82	5	250
2008	TX	LE	NM06	13.22	15.53	5	250
2008	TX	LE	NM07	13.22	16.23	5	250
2008	TX	LE	NM08	13.22	16.93	5	250
2008	TX	LE	NM09	13.22	17.64	5	250
2008	TX	LE	NM10	13.22	18.34	5	250
2008	TX	LE	NM11	13.22	19.04	5	250
2008	TX	LE	NM12	13.22	19.74	5	250
2008	TX	LE	NM13	13.22	20.44	5	250
2008	TX	LE	NM14	13.22	21.15	5	250
2008	TX	LE	NM15	13.22	21.85	5	250
2008	TX	LE	NM16	13.22	22.55	5	250
2008	TX	LE	NM17	13.22	23.25	5	250
2008	TX	LE	NM18	13.22	23.96	5	250
2008	TX	LE	NM19	13.22	24.66	5	250
2008	TX	LE	NM20	13.22	25.36	5	250
2008	TX	LG	ES01	13.12	10.3	10.35	137.185
2008	TX	LG	ES02	13.12	11.39	5.98	79.304
2008	TX	LG	ES03	13.12	12.11	7.07	93.691
2008	TX	LG	ES04	13.12	12.24	0.3	4.04
2008	TX	LG	NM01	13.12	12.66	5	200
2008	TX	LG	NM02	13.12	13.97	5	200
2008	TX	LG	NM03	13.12	15.27	5	200
2008	TX	LG	NM04	13.12	16.58	5	200
2008	TX	LG	NM05	13.12	17.88	5	200
2008	TX	LG	NM06	13.12	19.18	5	200
2008	TX	LG	NM07	13.12	20.49	5	200
2008	TX	LG	NM08	13.12	21.79	5	200
2008	TX	LG	NM09	13.12	23.11	5	200
2008	TX	LG	NM10	13.12	24.41	5	200
2009	TX	LD	NM01	13.06	14.57	3	150
2009	TX	LD	NM02	13.06	17.12	3	150
2009	TX	LD	NM03	13.06	19.68	3	150
2009	TX	LD	NM04	13.06	22.22	3	150
2009	TX	LE	ES01	13.22	10.26	0.47	6.171
2009	TX	LE	ES02	13.22	11.35	1.18	15.598
2009	TX	LE	NM01	13.22	11.96	5	250
2009	TX	LE	ES03	13.22	12.18	3.2	42.352
2009	TX	LE	ES04	13.22	12.24	10.02	132.802
2009	TX	LE	NM02	13.22	12.66	5	250
2009	TX	LE	ES05	13.22	12.67	7.45	98.708
2009	TX	LE	NM03	13.22	13.37	5	250
2009	TX	LE	NM04	13.22	14.06	5	250
2009	TX	LE	NM05	13.22	14.76	5	250
2009	TX	LE	NM06	13.22	15.46	5	250
2009	TX	LE	NM07	13.22	16.16	5	250
2009	TX	LE	NM08	13.22	16.87	5	250
2009	TX	LE	NM09	13.22	17.56	5	250
2009	TX	LE	NM10	13.22	18.26	5	250
2009	TX	LE	NM11	13.22	18.96	5	250
2009	TX	LE	NM12	13.22	19.66	5	250
2009	TX	LE	NM13	13.22	20.37	5	250

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	TX	LE	NM14	13.22	21.06	5	250
2009	TX	LE	NM15	13.22	21.76	5	250
2009	TX	LE	NM16	13.22	22.46	5	250
2009	TX	LE	NM17	13.22	23.16	5	250
2009	TX	LE	NM18	13.22	23.87	5	250
2009	TX	LE	NM19	13.22	24.56	5	250
2009	TX	LE	NM20	13.22	25.26	5	250
2009	TX	LG	ES01	13.12	10.26	10.35	137.185
2009	TX	LG	ES02	13.12	11.35	5.98	79.304
2009	TX	LG	ES03	13.12	12.05	7.07	93.691
2009	TX	LG	ES04	13.12	12.18	0.3	4.04
2009	TX	LG	NM01	13.12	12.61	5	200
2009	TX	LG	NM02	13.12	13.91	5	200
2009	TX	LG	NM03	13.12	15.22	5	200
2009	TX	LG	NM04	13.12	16.51	5	200
2009	TX	LG	NM05	13.12	17.81	5	200
2009	TX	LG	NM06	13.12	19.11	5	200
2009	TX	LG	NM07	13.12	20.41	5	200
2009	TX	LG	NM08	13.12	21.72	5	200
2009	TX	LG	NM09	13.12	23.01	5	200
2009	TX	LG	NM10	13.12	24.31	5	200
2010	TX	LD	NM01	13.06	14.51	3	150
2010	TX	LD	NM02	13.06	17.06	3	150
2010	TX	LD	NM03	13.06	19.6	3	150
2010	TX	LD	NM04	13.06	22.13	3	150
2010	TX	LE	ES01	13.22	10.21	0.47	6.171
2010	TX	LE	ES02	13.22	11.3	1.18	15.598
2010	TX	LE	NM01	13.22	11.92	5	250
2010	TX	LE	ES03	13.22	12.14	3.2	42.352
2010	TX	LE	ES04	13.22	12.2	10.02	132.802
2010	TX	LE	NM02	13.22	12.61	5	250
2010	TX	LE	ES05	13.22	12.62	7.45	98.708
2010	TX	LE	NM03	13.22	13.31	5	250
2010	TX	LE	NM04	13.22	14	5	250
2010	TX	LE	NM05	13.22	14.7	5	250
2010	TX	LE	NM06	13.22	15.39	5	250
2010	TX	LE	NM07	13.22	16.1	5	250
2010	TX	LE	NM08	13.22	16.79	5	250
2010	TX	LE	NM09	13.22	17.49	5	250
2010	TX	LE	NM10	13.22	18.19	5	250
2010	TX	LE	NM11	13.22	18.88	5	250
2010	TX	LE	NM12	13.22	19.59	5	250
2010	TX	LE	NM13	13.22	20.28	5	250
2010	TX	LE	NM14	13.22	20.98	5	250
2010	TX	LE	NM15	13.22	21.67	5	250
2010	TX	LE	NM16	13.22	22.37	5	250
2010	TX	LE	NM17	13.22	23.06	5	250
2010	TX	LE	NM18	13.22	23.77	5	250
2010	TX	LE	NM19	13.22	24.47	5	250
2010	TX	LE	NM20	13.22	25.16	5	250
2010	TX	LG	ES01	13.12	10.21	10.35	137.185
2010	TX	LG	ES02	13.12	11.3	5.98	79.304
2010	TX	LG	ES03	13.12	12.01	7.07	93.691
2010	TX	LG	ES04	13.12	12.14	0.3	4.04
2010	TX	LG	NM01	13.12	12.56	5	200
2010	TX	LG	NM02	13.12	13.86	5	200
2010	TX	LG	NM03	13.12	15.15	5	200
2010	TX	LG	NM04	13.12	16.44	5	200
2010	TX	LG	NM05	13.12	17.74	5	200
2010	TX	LG	NM06	13.12	19.04	5	200
2010	TX	LG	NM07	13.12	20.33	5	200
2010	TX	LG	NM08	13.12	21.63	5	200
2010	TX	LG	NM09	13.12	22.92	5	200
2010	TX	LG	NM10	13.12	24.21	5	200
2015	TX	LD	NM01	13.06	14.22	3	150
2015	TX	LD	NM02	13.06	16.71	3	150
2015	TX	LD	NM03	13.06	19.21	3	150
2015	TX	LD	NM04	13.06	21.69	3	150
2015	TX	LE	ES01	13.22	10.01	0.47	6.171
2015	TX	LE	ES02	13.22	11.08	0	15.598
2015	TX	LE	NM01	13.22	11.67	5	250
2015	TX	LE	ES03	13.22	11.89	0	42.352
2015	TX	LE	ES04	13.22	11.95	10.02	132.802
2015	TX	LE	NM02	13.22	12.36	5	250
2015	TX	LE	ES05	13.22	12.37	7.45	98.708
2015	TX	LE	NM03	13.22	13.04	5	250
2015	TX	LE	NM04	13.22	13.72	5	250

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	TX	LE	NM05	13.22	14.41	5	250
2015	TX	LE	NM06	13.22	15.09	5	250
2015	TX	LE	NM07	13.22	15.77	5	250
2015	TX	LE	NM08	13.22	16.46	5	250
2015	TX	LE	NM09	13.22	17.14	5	250
2015	TX	LE	NM10	13.22	17.82	5	250
2015	TX	LE	NM11	13.22	18.52	5	250
2015	TX	LE	NM12	13.22	19.2	5	250
2015	TX	LE	NM13	13.22	19.88	5	250
2015	TX	LE	NM14	13.22	20.56	5	250
2015	TX	LE	NM15	13.22	21.25	5	250
2015	TX	LE	NM16	13.22	21.93	5	250
2015	TX	LE	NM17	13.22	22.61	5	250
2015	TX	LE	NM18	13.22	23.3	5	250
2015	TX	LE	NM19	13.22	23.98	5	250
2015	TX	LE	NM20	13.22	24.66	5	250
2015	TX	LG	ES01	13.12	10.01	10.35	137.185
2015	TX	LG	ES02	13.12	11.08	0	79.304
2015	TX	LG	ES03	13.12	11.77	0	93.691
2015	TX	LG	ES04	13.12	11.89	0	4.04
2015	TX	LG	NM01	13.12	12.31	5	200
2015	TX	LG	NM02	13.12	13.58	5	200
2015	TX	LG	NM03	13.12	14.85	5	200
2015	TX	LG	NM04	13.12	16.12	5	200
2015	TX	LG	NM05	13.12	17.39	5	200
2015	TX	LG	NM06	13.12	18.66	5	200
2015	TX	LG	NM07	13.12	19.93	5	200
2015	TX	LG	NM08	13.12	21.19	5	200
2015	TX	LG	NM09	13.12	22.46	5	200
2015	TX	LG	NM10	13.12	23.73	5	200
2020	TX	LD	NM01	13.06	13.95	3	150
2020	TX	LD	NM02	13.06	16.39	3	150
2020	TX	LD	NM03	13.06	18.83	3	150
2020	TX	LD	NM04	13.06	21.26	3	150
2020	TX	LE	ES01	13.22	9.81	0.47	6.171
2020	TX	LE	ES02	13.22	10.86	0	15.598
2020	TX	LE	NM01	13.22	11.45	5	250
2020	TX	LE	ES03	13.22	11.66	0	42.352
2020	TX	LE	ES04	13.22	11.72	0	132.802
2020	TX	LE	NM02	13.22	12.12	5	250
2020	TX	LE	ES05	13.22	12.13	0	98.708
2020	TX	LE	NM03	13.22	12.79	5	250
2020	TX	LE	NM04	13.22	13.46	5	250
2020	TX	LE	NM05	13.22	14.12	5	250
2020	TX	LE	NM06	13.22	14.79	5	250
2020	TX	LE	NM07	13.22	15.46	5	250
2020	TX	LE	NM08	13.22	16.13	5	250
2020	TX	LE	NM09	13.22	16.8	5	250
2020	TX	LE	NM10	13.22	17.47	5	250
2020	TX	LE	NM11	13.22	18.15	5	250
2020	TX	LE	NM12	13.22	18.82	5	250
2020	TX	LE	NM13	13.22	19.49	5	250
2020	TX	LE	NM14	13.22	20.15	5	250
2020	TX	LE	NM15	13.22	20.82	5	250
2020	TX	LE	NM16	13.22	21.49	5	250
2020	TX	LE	NM17	13.22	22.16	5	250
2020	TX	LE	NM18	13.22	22.83	5	250
2020	TX	LE	NM19	13.22	23.5	5	250
2020	TX	LE	NM20	13.22	24.17	5	250
2020	TX	LG	ES01	13.12	9.81	10.35	137.185
2020	TX	LG	ES02	13.12	10.86	0	79.304
2020	TX	LG	ES03	13.12	11.54	0	93.691
2020	TX	LG	ES04	13.12	11.66	0	4.04
2020	TX	LG	NM01	13.12	12.06	5	200
2020	TX	LG	NM02	13.12	13.31	5	200
2020	TX	LG	NM03	13.12	14.56	5	200
2020	TX	LG	NM04	13.12	15.8	5	200
2020	TX	LG	NM05	13.12	17.04	5	200
2020	TX	LG	NM06	13.12	18.28	5	200
2020	TX	LG	NM07	13.12	19.53	5	200
2020	TX	LG	NM08	13.12	20.78	5	200
2020	TX	LG	NM09	13.12	22.02	5	200
2020	TX	LG	NM10	13.12	23.26	5	200
2025	TX	LD	NM01	13.06	13.67	3	150
2025	TX	LD	NM02	13.06	16.05	3	150
2025	TX	LD	NM03	13.06	18.45	3	150
2025	TX	LD	NM04	13.06	20.85	3	150

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	TX	LE	ES01	13.22	9.62	0	6.171
2025	TX	LE	ES02	13.22	10.65	0	15.598
2025	TX	LE	NM01	13.22	11.21	5	250
2025	TX	LE	ES03	13.22	11.43	0	42.352
2025	TX	LE	ES04	13.22	11.48	0	132.802
2025	TX	LE	NM02	13.22	11.87	5	250
2025	TX	LE	ES05	13.22	11.88	0	98.708
2025	TX	LE	NM03	13.22	12.53	5	250
2025	TX	LE	NM04	13.22	13.19	5	250
2025	TX	LE	NM05	13.22	13.85	5	250
2025	TX	LE	NM06	13.22	14.5	5	250
2025	TX	LE	NM07	13.22	15.16	5	250
2025	TX	LE	NM08	13.22	15.82	5	250
2025	TX	LE	NM09	13.22	16.46	5	250
2025	TX	LE	NM10	13.22	17.12	5	250
2025	TX	LE	NM11	13.22	17.78	5	250
2025	TX	LE	NM12	13.22	18.44	5	250
2025	TX	LE	NM13	13.22	19.1	5	250
2025	TX	LE	NM14	13.22	19.75	5	250
2025	TX	LE	NM15	13.22	20.41	5	250
2025	TX	LE	NM16	13.22	21.07	5	250
2025	TX	LE	NM17	13.22	21.73	5	250
2025	TX	LE	NM18	13.22	22.38	5	250
2025	TX	LE	NM19	13.22	23.03	5	250
2025	TX	LE	NM20	13.22	23.69	5	250
2025	TX	LG	ES01	13.12	9.62	0	137.185
2025	TX	LG	ES02	13.12	10.65	0	79.304
2025	TX	LG	ES03	13.12	11.3	0	93.691
2025	TX	LG	ES04	13.12	11.43	0	4.04
2025	TX	LG	NM01	13.12	11.83	5	200
2025	TX	LG	NM02	13.12	13.04	5	200
2025	TX	LG	NM03	13.12	14.27	5	200
2025	TX	LG	NM04	13.12	15.48	5	200
2025	TX	LG	NM05	13.12	16.71	5	200
2025	TX	LG	NM06	13.12	17.93	5	200
2025	TX	LG	NM07	13.12	19.14	5	200
2025	TX	LG	NM08	13.12	20.37	5	200
2025	TX	LG	NM09	13.12	21.58	5	200
2025	TX	LG	NM10	13.12	22.8	5	200
2035	TX	LD	NM01	13.06	13.4	3	150
2035	TX	LD	NM02	13.06	15.74	3	150
2035	TX	LD	NM03	13.06	18.08	3	150
2035	TX	LD	NM04	13.06	20.42	3	150
2035	TX	LE	ES01	13.22	9.43	0	6.171
2035	TX	LE	ES02	13.22	10.43	0	15.598
2035	TX	LE	NM01	13.22	10.99	5	250
2035	TX	LE	ES03	13.22	11.2	0	42.352
2035	TX	LE	ES04	13.22	11.25	0	132.802
2035	TX	LE	NM02	13.22	11.64	5	250
2035	TX	LE	ES05	13.22	11.65	0	98.708
2035	TX	LE	NM03	13.22	12.28	5	250
2035	TX	LE	NM04	13.22	12.93	5	250
2035	TX	LE	NM05	13.22	13.57	5	250
2035	TX	LE	NM06	13.22	14.21	5	250
2035	TX	LE	NM07	13.22	14.86	5	250
2035	TX	LE	NM08	13.22	15.5	5	250
2035	TX	LE	NM09	13.22	16.14	5	250
2035	TX	LE	NM10	13.22	16.79	5	250
2035	TX	LE	NM11	13.22	17.43	5	250
2035	TX	LE	NM12	13.22	18.07	5	250
2035	TX	LE	NM13	13.22	18.72	5	250
2035	TX	LE	NM14	13.22	19.36	5	250
2035	TX	LE	NM15	13.22	20.01	5	250
2035	TX	LE	NM16	13.22	20.65	5	250
2035	TX	LE	NM17	13.22	21.29	5	250
2035	TX	LE	NM18	13.22	21.94	5	250
2035	TX	LE	NM19	13.22	22.57	5	250
2035	TX	LE	NM20	13.22	23.22	5	250
2035	TX	LG	ES01	13.12	9.43	0	137.185
2035	TX	LG	ES02	13.12	10.43	0	79.304
2035	TX	LG	ES03	13.12	11.08	0	93.691
2035	TX	LG	ES04	13.12	11.2	0	4.04
2035	TX	LG	NM01	13.12	11.59	5	200
2035	TX	LG	NM02	13.12	12.79	5	200
2035	TX	LG	NM03	13.12	13.98	5	200
2035	TX	LG	NM04	13.12	15.18	5	200
2035	TX	LG	NM05	13.12	16.38	5	200

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	TX	LG	NM06	13.12	17.57	5	200
2035	TX	LG	NM07	13.12	18.76	5	200
2035	TX	LG	NM08	13.12	19.95	5	200
2035	TX	LG	NM09	13.12	21.16	5	200
2035	TX	LG	NM10	13.12	22.35	5	200
2007	UT	BA	EU01	23.68	11.58	6.55	89.698
2007	UT	BA	EU02	23.68	13.29	0.1	1.344
2007	UT	BA	EU03	23.68	14.26	0.01	0.132
2007	UT	BA	EU04	23.68	16.57	0.03	0.446
2007	UT	BA	EU05	23.68	16.98	0.44	6.004
2007	UT	BA	EU06	23.68	18.58	0.01	0.188
2007	UT	BB	EU01	23.23	11.58	3.609	35.884
2007	UT	BB	EU02	23.23	13.29	1.659	16.499
2007	UT	BB	EU03	23.23	14.26	0.111	1.1
2007	UT	BB	EU04	23.23	14.67	0.429	4.262
2007	UT	BB	EU05	23.23	16.57	1.327	13.199
2007	UT	BB	NM01	23.23	16.73	4	80
2007	UT	BB	EU06	23.23	16.98	4.328	43.034
2007	UT	BB	EU07	23.23	18.58	6.61	65.719
2007	UT	BB	NM02	23.23	18.63	4	80
2007	UT	BB	EU08	23.23	21.83	0.18	1.787
2007	UT	BB	EU09	23.23	22.17	0.816	8.112
2007	UT	BB	EU10	23.23	23.24	0.138	1.375
2007	UT	BD	EU01	23.05	13.29	1.026	13.768
2007	UT	BD	EU02	23.05	14.26	0.226	3.029
2007	UT	BD	EU03	23.05	14.67	0.267	3.58
2007	UT	BD	NM01	23.05	16.13	3.5	70
2007	UT	BD	EU04	23.05	16.57	0.667	8.949
2007	UT	BD	EU05	23.05	16.98	0.544	7.297
2007	UT	BD	NM02	23.05	17.16	3.5	70
2007	UT	BD	EU06	23.05	18.58	0.092	1.239
2007	UT	BD	EU07	23.05	22.17	0.164	2.203
2007	UT	BD	EU08	23.05	23.24	0.195	2.616
2007	UT	BE	EU01	25.06	14.67	1.01	13.838
2007	UT	BE	EU02	25.06	16.57	0.51	6.991
2007	UT	BE	EU03	25.06	18.58	0.06	0.886
2007	UT	BE	EU04	25.06	22.17	0.03	0.4
2007	UT	BE	NM01	25.06	28.23	1	20
2007	UT	BE	NM02	25.06	30.24	1	20
2008	UT	BA	EU01	23.68	11.54	6.55	89.698
2008	UT	BA	EU02	23.68	13.23	0.1	1.344
2008	UT	BA	EU03	23.68	14.2	0.01	0.132
2008	UT	BA	EU04	23.68	16.5	0.03	0.446
2008	UT	BA	EU05	23.68	16.91	0.44	6.004
2008	UT	BA	EU06	23.68	18.5	0.01	0.188
2008	UT	BB	EU01	23.23	11.54	3.609	35.884
2008	UT	BB	EU02	23.23	13.23	1.659	16.499
2008	UT	BB	EU03	23.23	14.2	0.111	1.1
2008	UT	BB	EU04	23.23	14.6	0.429	4.262
2008	UT	BB	EU05	23.23	16.5	1.327	13.199
2008	UT	BB	NM01	23.23	16.67	4	80
2008	UT	BB	EU06	23.23	16.91	4.328	43.034
2008	UT	BB	EU07	23.23	18.5	6.61	65.719
2008	UT	BB	NM02	23.23	18.56	4	80
2008	UT	BB	EU08	23.23	21.75	0.18	1.787
2008	UT	BB	EU09	23.23	22.08	0.816	8.112
2008	UT	BB	EU10	23.23	23.15	0.138	1.375
2008	UT	BD	EU01	23.05	13.23	1.026	13.768
2008	UT	BD	EU02	23.05	14.2	0.226	3.029
2008	UT	BD	EU03	23.05	14.6	0.267	3.58
2008	UT	BD	NM01	23.05	16.06	3.5	70
2008	UT	BD	EU04	23.05	16.5	0.667	8.949
2008	UT	BD	EU05	23.05	16.91	0.544	7.297
2008	UT	BD	NM02	23.05	17.09	3.5	70
2008	UT	BD	EU06	23.05	18.5	0.092	1.239
2008	UT	BD	EU07	23.05	22.08	0.164	2.203
2008	UT	BD	EU08	23.05	23.15	0.195	2.616
2008	UT	BE	EU01	25.06	14.6	1.01	13.838
2008	UT	BE	EU02	25.06	16.5	0.51	6.991
2008	UT	BE	EU03	25.06	18.5	0.06	0.886
2008	UT	BE	EU04	25.06	22.08	0.03	0.4
2008	UT	BE	NM01	25.06	28.11	1	20
2008	UT	BE	NM02	25.06	30.12	1	20
2009	UT	BA	EU01	23.68	11.49	6.55	89.698
2009	UT	BA	EU02	23.68	13.19	0	1.344
2009	UT	BA	EU03	23.68	14.15	0.01	0.132
2009	UT	BA	EU04	23.68	16.43	0.03	0.446

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	UT	BA	EU05	23.68	16.84	0.44	6.004
2009	UT	BA	EU06	23.68	18.43	0.01	0.188
2009	UT	BB	EU01	23.23	11.49	3.609	35.884
2009	UT	BB	EU02	23.23	13.19	1.659	16.499
2009	UT	BB	EU03	23.23	14.15	0.111	1.1
2009	UT	BB	EU04	23.23	14.55	0.429	4.262
2009	UT	BB	EU05	23.23	16.43	1.327	13.199
2009	UT	BB	NM01	23.23	16.6	4	80
2009	UT	BB	EU06	23.23	16.84	4.328	43.034
2009	UT	BB	EU07	23.23	18.43	6.61	65.719
2009	UT	BB	NM02	23.23	18.48	4	80
2009	UT	BB	EU08	23.23	21.66	0.18	1.787
2009	UT	BB	EU09	23.23	21.99	0.816	8.112
2009	UT	BB	EU10	23.23	23.06	0.138	1.375
2009	UT	BD	EU01	23.05	13.19	1.026	13.768
2009	UT	BD	EU02	23.05	14.15	0.226	3.029
2009	UT	BD	EU03	23.05	14.55	0.267	3.58
2009	UT	BD	NM01	23.05	16	3.5	70
2009	UT	BD	EU04	23.05	16.43	0.667	8.949
2009	UT	BD	EU05	23.05	16.84	0.544	7.297
2009	UT	BD	NM02	23.05	17.02	3.5	70
2009	UT	BD	EU06	23.05	18.43	0.092	1.239
2009	UT	BD	EU07	23.05	21.99	0.164	2.203
2009	UT	BD	EU08	23.05	23.06	0.195	2.616
2009	UT	BE	EU01	25.06	14.55	1.01	13.838
2009	UT	BE	EU02	25.06	16.43	0.51	6.991
2009	UT	BE	EU03	25.06	18.43	0.06	0.886
2009	UT	BE	EU04	25.06	21.99	0.03	0.4
2009	UT	BE	NM01	25.06	28	1	20
2009	UT	BE	NM02	25.06	30	1	20
2010	UT	BA	EU01	23.68	11.45	6.55	89.698
2010	UT	BA	EU02	23.68	13.13	0	1.344
2010	UT	BA	EU03	23.68	14.09	0	0.132
2010	UT	BA	EU04	23.68	16.36	0.03	0.446
2010	UT	BA	EU05	23.68	16.78	0.44	6.004
2010	UT	BA	EU06	23.68	18.36	0.01	0.188
2010	UT	BB	EU01	23.23	11.45	3.609	35.884
2010	UT	BB	EU02	23.23	13.13	1.659	16.499
2010	UT	BB	EU03	23.23	14.09	0.111	1.1
2010	UT	BB	EU04	23.23	14.49	0.429	4.262
2010	UT	BB	EU05	23.23	16.36	1.327	13.199
2010	UT	BB	NM01	23.23	16.53	4	80
2010	UT	BB	EU06	23.23	16.78	4.328	43.034
2010	UT	BB	EU07	23.23	18.36	6.61	65.719
2010	UT	BB	NM02	23.23	18.4	4	80
2010	UT	BB	EU08	23.23	21.57	0.18	1.787
2010	UT	BB	EU09	23.23	21.9	0.816	8.112
2010	UT	BB	EU10	23.23	22.96	0.138	1.375
2010	UT	BD	EU01	23.05	13.13	1.026	13.768
2010	UT	BD	EU02	23.05	14.09	0.226	3.029
2010	UT	BD	EU03	23.05	14.49	0.267	3.58
2010	UT	BD	NM01	23.05	15.94	3.5	70
2010	UT	BD	EU04	23.05	16.36	0.667	8.949
2010	UT	BD	EU05	23.05	16.78	0.544	7.297
2010	UT	BD	NM02	23.05	16.96	3.5	70
2010	UT	BD	EU06	23.05	18.36	0.092	1.239
2010	UT	BD	EU07	23.05	21.9	0.164	2.203
2010	UT	BD	EU08	23.05	22.96	0.195	2.616
2010	UT	BE	EU01	25.06	14.49	1.01	13.838
2010	UT	BE	EU02	25.06	16.36	0.51	6.991
2010	UT	BE	EU03	25.06	18.36	0.06	0.886
2010	UT	BE	EU04	25.06	21.9	0.03	0.4
2010	UT	BE	NM01	25.06	27.89	1	20
2010	UT	BE	NM02	25.06	29.89	1	20
2015	UT	BA	EU01	23.68	11.21	6.55	89.698
2015	UT	BA	EU02	23.68	12.88	0	1.344
2015	UT	BA	EU03	23.68	13.81	0	0.132
2015	UT	BA	EU04	23.68	16.04	0	0.446
2015	UT	BA	EU05	23.68	16.44	0.44	6.004
2015	UT	BA	EU06	23.68	17.99	0.01	0.188
2015	UT	BB	EU01	23.23	11.21	3.609	35.884
2015	UT	BB	EU02	23.23	12.88	1.659	16.499
2015	UT	BB	EU03	23.23	13.81	0.111	1.1
2015	UT	BB	EU04	23.23	14.2	0.429	4.262
2015	UT	BB	EU05	23.23	16.04	1.327	13.199
2015	UT	BB	NM01	23.23	16.21	4	80
2015	UT	BB	EU06	23.23	16.44	4.328	43.034

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	UT	BB	EU07	23.23	17.99	6.61	65.719
2015	UT	BB	NM02	23.23	18.04	4	80
2015	UT	BB	EU08	23.23	21.15	0.18	1.787
2015	UT	BB	EU09	23.23	21.47	0.816	8.112
2015	UT	BB	EU10	23.23	22.52	0.138	1.375
2015	UT	BD	EU01	23.05	12.88	1.026	13.768
2015	UT	BD	EU02	23.05	13.81	0.226	3.029
2015	UT	BD	EU03	23.05	14.2	0.267	3.58
2015	UT	BD	NM01	23.05	15.62	3.5	70
2015	UT	BD	EU04	23.05	16.04	0.667	8.949
2015	UT	BD	EU05	23.05	16.44	0.544	7.297
2015	UT	BD	NM02	23.05	16.62	3.5	70
2015	UT	BD	EU06	23.05	17.99	0.092	1.239
2015	UT	BD	EU07	23.05	21.47	0.164	2.203
2015	UT	BD	EU08	23.05	22.52	0.195	2.616
2015	UT	BE	EU01	25.06	14.2	0	13.838
2015	UT	BE	EU02	25.06	16.04	0	6.991
2015	UT	BE	EU03	25.06	17.99	0.06	0.886
2015	UT	BE	EU04	25.06	21.47	0.03	0.4
2015	UT	BE	NM01	25.06	27.33	1	20
2015	UT	BE	NM02	25.06	29.28	1	20
2020	UT	BA	EU01	23.68	10.99	6.55	89.698
2020	UT	BA	EU02	23.68	12.62	0	1.344
2020	UT	BA	EU03	23.68	13.53	0	0.132
2020	UT	BA	EU04	23.68	15.72	0	0.446
2020	UT	BA	EU05	23.68	16.12	0	6.004
2020	UT	BA	EU06	23.68	17.64	0	0.188
2020	UT	BB	EU01	23.23	10.99	3.609	35.884
2020	UT	BB	EU02	23.23	12.62	1.659	16.499
2020	UT	BB	EU03	23.23	13.53	0.111	1.1
2020	UT	BB	EU04	23.23	13.92	0.429	4.262
2020	UT	BB	EU05	23.23	15.72	1.327	13.199
2020	UT	BB	NM01	23.23	15.89	4	80
2020	UT	BB	EU06	23.23	16.12	4.328	43.034
2020	UT	BB	EU07	23.23	17.64	6.61	65.719
2020	UT	BB	NM02	23.23	17.68	4	80
2020	UT	BB	EU08	23.23	20.72	0.18	1.787
2020	UT	BB	EU09	23.23	21.05	0.816	8.112
2020	UT	BB	EU10	23.23	22.06	0.138	1.375
2020	UT	BD	EU01	23.05	12.62	1.026	13.768
2020	UT	BD	EU02	23.05	13.53	0.226	3.029
2020	UT	BD	EU03	23.05	13.92	0.267	3.58
2020	UT	BD	NM01	23.05	15.31	3.5	70
2020	UT	BD	EU04	23.05	15.72	0.667	8.949
2020	UT	BD	EU05	23.05	16.12	0.544	7.297
2020	UT	BD	NM02	23.05	16.29	3.5	70
2020	UT	BD	EU06	23.05	17.64	0.092	1.239
2020	UT	BD	EU07	23.05	21.05	0.164	2.203
2020	UT	BD	EU08	23.05	22.06	0.195	2.616
2020	UT	BE	EU01	25.06	13.92	0	13.838
2020	UT	BE	EU02	25.06	15.72	0	6.991
2020	UT	BE	EU03	25.06	17.64	0	0.886
2020	UT	BE	EU04	25.06	21.05	0.03	0.4
2020	UT	BE	NM01	25.06	26.8	1	20
2020	UT	BE	NM02	25.06	28.7	1	20
2025	UT	BA	EU01	23.68	10.78	6.55	89.698
2025	UT	BA	EU02	23.68	12.36	0	1.344
2025	UT	BA	EU03	23.68	13.27	0	0.132
2025	UT	BA	EU04	23.68	15.41	0	0.446
2025	UT	BA	EU05	23.68	15.8	0	6.004
2025	UT	BA	EU06	23.68	17.29	0	0.188
2025	UT	BB	EU01	23.23	10.78	3.609	35.884
2025	UT	BB	EU02	23.23	12.36	1.659	16.499
2025	UT	BB	EU03	23.23	13.27	0.111	1.1
2025	UT	BB	EU04	23.23	13.64	0.429	4.262
2025	UT	BB	EU05	23.23	15.41	1.327	13.199
2025	UT	BB	NM01	23.23	15.57	4	80
2025	UT	BB	EU06	23.23	15.8	4.328	43.034
2025	UT	BB	EU07	23.23	17.29	6.61	65.719
2025	UT	BB	NM02	23.23	17.33	4	80
2025	UT	BB	EU08	23.23	20.31	0.18	1.787
2025	UT	BB	EU09	23.23	20.63	0.816	8.112
2025	UT	BB	EU10	23.23	21.63	0.138	1.375
2025	UT	BD	EU01	23.05	12.36	1.026	13.768
2025	UT	BD	EU02	23.05	13.27	0.226	3.029
2025	UT	BD	EU03	23.05	13.64	0.267	3.58
2025	UT	BD	NM01	23.05	15	3.5	70

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	UT	BD	EU04	23.05	15.41	0.667	8.949
2025	UT	BD	EU05	23.05	15.8	0.544	7.297
2025	UT	BD	NM02	23.05	15.96	3.5	70
2025	UT	BD	EU06	23.05	17.29	0.092	1.239
2025	UT	BD	EU07	23.05	20.63	0.164	2.203
2025	UT	BD	EU08	23.05	21.63	0.195	2.616
2025	UT	BE	EU01	25.06	13.64	0	13.838
2025	UT	BE	EU02	25.06	15.41	0	6.991
2025	UT	BE	EU03	25.06	17.29	0	0.886
2025	UT	BE	EU04	25.06	20.63	0	0.4
2025	UT	BE	NM01	25.06	26.26	1	20
2025	UT	BE	NM02	25.06	28.14	1	20
2035	UT	BA	EU01	23.68	10.57	6.55	89.698
2035	UT	BA	EU02	23.68	12.12	0	1.344
2035	UT	BA	EU03	23.68	13.01	0	0.132
2035	UT	BA	EU04	23.68	15.1	0	0.446
2035	UT	BA	EU05	23.68	15.48	0	6.004
2035	UT	BA	EU06	23.68	16.94	0	0.188
2035	UT	BB	EU01	23.23	10.57	3.609	35.884
2035	UT	BB	EU02	23.23	12.12	1.659	16.499
2035	UT	BB	EU03	23.23	13.01	0.111	1.1
2035	UT	BB	EU04	23.23	13.38	0.429	4.262
2035	UT	BB	EU05	23.23	15.1	1.327	13.199
2035	UT	BB	NM01	23.23	15.26	4	80
2035	UT	BB	EU06	23.23	15.48	4.328	43.034
2035	UT	BB	EU07	23.23	16.94	6.61	65.719
2035	UT	BB	NM02	23.23	16.99	4	80
2035	UT	BB	EU08	23.23	19.91	0.18	1.787
2035	UT	BB	EU09	23.23	20.22	0.816	8.112
2035	UT	BB	EU10	23.23	21.2	0.138	1.375
2035	UT	BD	EU01	23.05	12.12	1.026	13.768
2035	UT	BD	EU02	23.05	13.01	0.226	3.029
2035	UT	BD	EU03	23.05	13.38	0.267	3.58
2035	UT	BD	NM01	23.05	14.71	3.5	70
2035	UT	BD	EU04	23.05	15.1	0.667	8.949
2035	UT	BD	EU05	23.05	15.48	0.544	7.297
2035	UT	BD	NM02	23.05	15.65	3.5	70
2035	UT	BD	EU06	23.05	16.94	0.092	1.239
2035	UT	BD	EU07	23.05	20.22	0.164	2.203
2035	UT	BD	EU08	23.05	21.2	0.195	2.616
2035	UT	BE	EU01	25.06	13.38	0	13.838
2035	UT	BE	EU02	25.06	15.1	0	6.991
2035	UT	BE	EU03	25.06	16.94	0	0.886
2035	UT	BE	EU04	25.06	20.22	0	0.4
2035	UT	BE	NM01	25.06	25.74	1	20
2035	UT	BE	NM02	25.06	27.58	1	20
2007	VA	BA	ES01	22.7	32.27	0.11	0.328
2007	VA	BA	NM01	22.7	36.78	0.25	3
2007	VA	BA	NM02	22.7	40.5	0.25	3
2007	VA	BA	NM03	22.7	44.21	0.25	3
2007	VA	BA	NM04	22.7	47.92	0.25	3
2007	VA	BA	NM05	22.7	51.64	0.25	3
2007	VA	BA	NM06	22.7	55.36	0.25	3
2007	VA	BA	NM07	22.7	59.07	0.25	3
2007	VA	BA	NM08	22.7	62.78	0.25	3
2007	VA	BA	NM09	22.7	66.5	0.25	3
2007	VA	BA	NM10	22.7	70.22	0.25	3
2007	VA	BB	EU01	25.97	26.54	4.38	6.26
2007	VA	BB	EU02	25.97	30.79	0.92	12.11
2007	VA	BB	EU03	25.97	31.84	2.43	32.38
2007	VA	BB	ES01	25.97	32.27	1.6	4.85
2007	VA	BB	NM01	25.97	35.06	0.75	9
2007	VA	BB	NM02	25.97	36.07	0.75	9
2007	VA	BB	NM03	25.97	37.09	0.75	9
2007	VA	BB	NM04	25.97	38.1	0.75	9
2007	VA	BB	NM05	25.97	39.12	0.75	9
2007	VA	BB	NM06	25.97	40.12	0.75	9
2007	VA	BB	NM07	25.97	41.13	0.75	9
2007	VA	BB	NM08	25.97	42.15	0.75	9
2007	VA	BB	NM09	25.97	43.16	0.75	9
2007	VA	BB	NM10	25.97	44.18	0.75	9
2007	VA	BB	NM11	25.97	45.19	0.75	9
2007	VA	BB	NM12	25.97	46.21	0.75	9
2007	VA	BB	NM13	25.97	47.22	0.75	9
2007	VA	BB	NM14	25.97	48.24	0.75	9
2007	VA	BB	NM15	25.97	49.25	0.75	9
2007	VA	BB	NM16	25.97	50.25	0.75	9

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	VA	BB	NM17	25.97	51.27	0.75	9
2007	VA	BB	NM18	25.97	52.28	0.75	9
2007	VA	BB	NM19	25.97	53.3	0.75	9
2007	VA	BB	NM20	25.97	54.31	0.75	9
2007	VA	BB	NM21	25.97	55.33	0.75	9
2007	VA	BB	NM22	25.97	56.34	0.75	9
2007	VA	BB	NM23	25.97	57.35	0.75	9
2007	VA	BB	NM24	25.97	58.36	0.75	9
2007	VA	BB	NM25	25.97	59.37	0.75	9
2007	VA	BB	NM26	25.97	60.39	0.75	9
2007	VA	BB	NM27	25.97	61.4	0.75	9
2007	VA	BB	NM28	25.97	62.42	0.75	9
2007	VA	BB	NM29	25.97	63.43	0.75	9
2007	VA	BB	NM30	25.97	64.44	0.75	9
2007	VA	BB	NM31	25.97	65.46	0.75	9
2007	VA	BB	NM32	25.97	66.46	0.75	9
2007	VA	BB	NM33	25.97	67.49	0.75	9
2007	VA	BB	NM34	25.97	68.49	0.75	9
2007	VA	BB	NM35	25.97	69.51	0.75	9
2007	VA	BB	NM36	25.97	70.52	0.75	9
2007	VA	BB	NM37	25.97	71.53	0.75	9
2007	VA	BB	NM38	25.97	72.55	0.75	9
2007	VA	BB	NM39	25.97	73.56	0.75	9
2007	VA	BB	NM40	25.97	74.24	0.25	3
2007	VA	BD	EU01	25.76	30.79	0.61	8.06
2007	VA	BD	EU02	25.76	31.84	7.19	95.63
2007	VA	BD	ES01	25.76	32.27	5.11	15.5
2007	VA	BD	NM01	25.76	33.24	0.75	9
2007	VA	BD	NM02	25.76	33.8	0.75	9
2007	VA	BD	NM03	25.76	34.37	0.75	9
2007	VA	BD	NM04	25.76	34.94	0.75	9
2007	VA	BD	NM05	25.76	35.5	0.75	9
2007	VA	BD	NM06	25.76	36.07	0.75	9
2007	VA	BD	NM07	25.76	36.64	0.75	9
2007	VA	BD	NM08	25.76	37.21	0.75	9
2007	VA	BD	NM09	25.76	37.78	0.75	9
2007	VA	BD	NM10	25.76	38.34	0.75	9
2007	VA	BD	NM11	25.76	38.91	0.75	9
2007	VA	BD	NM12	25.76	39.47	0.75	9
2007	VA	BD	NM13	25.76	40.04	0.75	9
2007	VA	BD	NM14	25.76	40.61	0.75	9
2007	VA	BD	NM15	25.76	41.18	0.75	9
2007	VA	BD	NM16	25.76	41.75	0.75	9
2007	VA	BD	NM17	25.76	42.32	0.75	9
2007	VA	BD	NM18	25.76	42.87	0.75	9
2007	VA	BD	NM19	25.76	43.44	0.75	9
2007	VA	BD	NM20	25.76	44.01	0.75	9
2007	VA	BD	NM21	25.76	44.58	0.75	9
2007	VA	BD	NM22	25.76	45.15	0.75	9
2007	VA	BD	NM23	25.76	45.71	0.75	9
2007	VA	BD	NM24	25.76	46.28	0.75	9
2007	VA	BD	NM25	25.76	46.84	0.75	9
2007	VA	BD	NM26	25.76	47.41	0.75	9
2007	VA	BD	NM27	25.76	47.98	0.75	9
2007	VA	BD	NM28	25.76	48.55	0.75	9
2007	VA	BD	NM29	25.76	49.12	0.75	9
2007	VA	BD	NM30	25.76	49.68	0.75	9
2007	VA	BD	NM31	25.76	50.24	0.75	9
2007	VA	BD	NM32	25.76	50.82	0.75	9
2007	VA	BD	NM33	25.76	51.37	0.72	8.6
2007	VA	BE	NM01	26.03	30.61	0.25	3
2007	VA	BE	NM02	26.03	31.46	0.25	3
2007	VA	BE	EU01	26.03	31.84	2.82	37.559
2007	VA	BE	ES02	26.03	32.27	4.39	13.321
2007	VA	BE	NM03	26.03	32.32	0.25	3
2007	VA	BE	NM04	26.03	33.16	0.25	3
2007	VA	BE	NM05	26.03	34.01	0.25	3
2007	VA	BE	NM06	26.03	34.86	0.25	3
2007	VA	BE	NM07	26.03	35.72	0.25	3
2007	VA	BE	NM08	26.03	36.56	0.25	3
2007	VA	BE	NM09	26.03	37.41	0.25	3
2007	VA	BE	NM10	26.03	38.26	0.25	3
2007	VA	BE	NM11	26.03	39.12	0.25	3
2007	VA	BE	NM12	26.03	39.96	0.25	3
2007	VA	BE	NM13	26.03	40.81	0.25	3
2007	VA	BE	NM14	26.03	41.66	0.25	3
2007	VA	BE	NM15	26.03	42.52	0.25	3

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	VA	BE	NM16	26.03	43.36	0.25	3
2007	VA	BE	NM17	26.03	44.21	0.25	3
2007	VA	BE	NM18	26.03	45.06	0.25	3
2007	VA	BE	NM19	26.03	45.91	0.25	3
2007	VA	BE	NM20	26.03	46.75	0.25	3
2007	VA	BE	NM21	26.03	47.6	0.25	3
2007	VA	BE	NM22	26.03	48.45	0.25	3
2007	VA	BE	NM23	26.03	49.31	0.25	3
2007	VA	BE	NM24	26.03	50.15	0.25	3
2007	VA	BE	NM25	26.03	51	0.25	3
2007	VA	BE	NM26	26.03	51.85	0.25	3
2007	VA	BE	NM27	26.03	52.71	0.25	3
2007	VA	BE	NM28	26.03	53.55	0.25	3
2007	VA	BE	NM29	26.03	54.4	0.25	3
2007	VA	BE	NM30	26.03	55.25	0.25	3
2007	VA	BE	NM31	26.03	56.11	0.25	3
2007	VA	BE	NM32	26.03	56.95	0.25	3
2007	VA	BE	NM33	26.03	57.8	0.25	3
2007	VA	BE	NM34	26.03	58.65	0.25	3
2007	VA	BE	NM35	26.03	59.49	0.25	3
2007	VA	BE	NM36	26.03	60.34	0.25	3
2007	VA	BE	NM37	26.03	61.19	0.25	3
2007	VA	BE	NM38	26.03	62.04	0.25	3
2007	VA	BE	NM39	26.03	62.89	0.25	3
2007	VA	BE	NM40	26.03	63.74	0.25	3
2007	VA	BE	NM41	26.03	64.56	0.24	2.9
2008	VA	BA	ES01	22.7	32.15	0.09	0.328
2008	VA	BA	NM01	22.7	36.63	0.25	3
2008	VA	BA	NM02	22.7	40.33	0.25	3
2008	VA	BA	NM03	22.7	44.03	0.25	3
2008	VA	BA	NM04	22.7	47.73	0.25	3
2008	VA	BA	NM05	22.7	51.43	0.25	3
2008	VA	BA	NM06	22.7	55.14	0.25	3
2008	VA	BA	NM07	22.7	58.83	0.25	3
2008	VA	BA	NM08	22.7	62.54	0.25	3
2008	VA	BA	NM09	22.7	66.23	0.25	3
2008	VA	BA	NM10	22.7	69.94	0.25	3
2008	VA	BB	EU01	25.97	26.44	4.08	6.26
2008	VA	BB	EU02	25.97	30.67	0.86	12.11
2008	VA	BB	EU03	25.97	31.7	2.27	32.38
2008	VA	BB	ES01	25.97	32.15	1.32	4.85
2008	VA	BB	NM01	25.97	34.91	0.75	9
2008	VA	BB	NM02	25.97	35.93	0.75	9
2008	VA	BB	NM03	25.97	36.93	0.75	9
2008	VA	BB	NM04	25.97	37.95	0.75	9
2008	VA	BB	NM05	25.97	38.96	0.75	9
2008	VA	BB	NM06	25.97	39.96	0.75	9
2008	VA	BB	NM07	25.97	40.98	0.75	9
2008	VA	BB	NM08	25.97	41.98	0.75	9
2008	VA	BB	NM09	25.97	43	0.75	9
2008	VA	BB	NM10	25.97	44	0.75	9
2008	VA	BB	NM11	25.97	45.01	0.75	9
2008	VA	BB	NM12	25.97	46.02	0.75	9
2008	VA	BB	NM13	25.97	47.03	0.75	9
2008	VA	BB	NM14	25.97	48.03	0.75	9
2008	VA	BB	NM15	25.97	49.05	0.75	9
2008	VA	BB	NM16	25.97	50.05	0.75	9
2008	VA	BB	NM17	25.97	51.07	0.75	9
2008	VA	BB	NM18	25.97	52.07	0.75	9
2008	VA	BB	NM19	25.97	53.08	0.75	9
2008	VA	BB	NM20	25.97	54.09	0.75	9
2008	VA	BB	NM21	25.97	55.1	0.75	9
2008	VA	BB	NM22	25.97	56.12	0.75	9
2008	VA	BB	NM23	25.97	57.12	0.75	9
2008	VA	BB	NM24	25.97	58.13	0.75	9
2008	VA	BB	NM25	25.97	59.14	0.75	9
2008	VA	BB	NM26	25.97	60.15	0.75	9
2008	VA	BB	NM27	25.97	61.16	0.75	9
2008	VA	BB	NM28	25.97	62.17	0.75	9
2008	VA	BB	NM29	25.97	63.17	0.75	9
2008	VA	BB	NM30	25.97	64.19	0.75	9
2008	VA	BB	NM31	25.97	65.19	0.75	9
2008	VA	BB	NM32	25.97	66.21	0.75	9
2008	VA	BB	NM33	25.97	67.21	0.75	9
2008	VA	BB	NM34	25.97	68.22	0.75	9
2008	VA	BB	NM35	25.97	69.23	0.75	9
2008	VA	BB	NM36	25.97	70.24	0.75	9

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	VA	BB	NM37	25.97	71.24	0.75	9
2008	VA	BB	NM38	25.97	72.26	0.75	9
2008	VA	BB	NM39	25.97	73.26	0.75	9
2008	VA	BB	NM40	25.97	73.94	0.25	3
2008	VA	BD	EU01	25.76	30.67	0.57	8.06
2008	VA	BD	EU02	25.76	31.7	6.71	95.63
2008	VA	BD	ES01	25.76	32.15	4.21	15.5
2008	VA	BD	NM01	25.76	33.11	0.75	9
2008	VA	BD	NM02	25.76	33.67	0.75	9
2008	VA	BD	NM03	25.76	34.23	0.75	9
2008	VA	BD	NM04	25.76	34.8	0.75	9
2008	VA	BD	NM05	25.76	35.36	0.75	9
2008	VA	BD	NM06	25.76	35.93	0.75	9
2008	VA	BD	NM07	25.76	36.49	0.75	9
2008	VA	BD	NM08	25.76	37.05	0.75	9
2008	VA	BD	NM09	25.76	37.62	0.75	9
2008	VA	BD	NM10	25.76	38.18	0.75	9
2008	VA	BD	NM11	25.76	38.75	0.75	9
2008	VA	BD	NM12	25.76	39.32	0.75	9
2008	VA	BD	NM13	25.76	39.89	0.75	9
2008	VA	BD	NM14	25.76	40.44	0.75	9
2008	VA	BD	NM15	25.76	41.01	0.75	9
2008	VA	BD	NM16	25.76	41.58	0.75	9
2008	VA	BD	NM17	25.76	42.14	0.75	9
2008	VA	BD	NM18	25.76	42.71	0.75	9
2008	VA	BD	NM19	25.76	43.26	0.75	9
2008	VA	BD	NM20	25.76	43.83	0.75	9
2008	VA	BD	NM21	25.76	44.4	0.75	9
2008	VA	BD	NM22	25.76	44.96	0.75	9
2008	VA	BD	NM23	25.76	45.53	0.75	9
2008	VA	BD	NM24	25.76	46.1	0.75	9
2008	VA	BD	NM25	25.76	46.66	0.75	9
2008	VA	BD	NM26	25.76	47.22	0.75	9
2008	VA	BD	NM27	25.76	47.79	0.75	9
2008	VA	BD	NM28	25.76	48.36	0.75	9
2008	VA	BD	NM29	25.76	48.92	0.75	9
2008	VA	BD	NM30	25.76	49.48	0.75	9
2008	VA	BD	NM31	25.76	50.04	0.75	9
2008	VA	BD	NM32	25.76	50.61	0.75	9
2008	VA	BD	NM33	25.76	51.16	0.72	8.6
2008	VA	BE	NM01	26.03	30.5	0.25	3
2008	VA	BE	NM02	26.03	31.34	0.25	3
2008	VA	BE	EU01	26.03	31.7	2.63	37.559
2008	VA	BE	ES02	26.03	32.15	3.62	13.321
2008	VA	BE	NM03	26.03	32.19	0.25	3
2008	VA	BE	NM04	26.03	33.03	0.25	3
2008	VA	BE	NM05	26.03	33.88	0.25	3
2008	VA	BE	NM06	26.03	34.72	0.25	3
2008	VA	BE	NM07	26.03	35.57	0.25	3
2008	VA	BE	NM08	26.03	36.42	0.25	3
2008	VA	BE	NM09	26.03	37.27	0.25	3
2008	VA	BE	NM10	26.03	38.1	0.25	3
2008	VA	BE	NM11	26.03	38.96	0.25	3
2008	VA	BE	NM12	26.03	39.8	0.25	3
2008	VA	BE	NM13	26.03	40.64	0.25	3
2008	VA	BE	NM14	26.03	41.49	0.25	3
2008	VA	BE	NM15	26.03	42.34	0.25	3
2008	VA	BE	NM16	26.03	43.19	0.25	3
2008	VA	BE	NM17	26.03	44.03	0.25	3
2008	VA	BE	NM18	26.03	44.87	0.25	3
2008	VA	BE	NM19	26.03	45.73	0.25	3
2008	VA	BE	NM20	26.03	46.57	0.25	3
2008	VA	BE	NM21	26.03	47.41	0.25	3
2008	VA	BE	NM22	26.03	48.26	0.25	3
2008	VA	BE	NM23	26.03	49.11	0.25	3
2008	VA	BE	NM24	26.03	49.95	0.25	3
2008	VA	BE	NM25	26.03	50.8	0.25	3
2008	VA	BE	NM26	26.03	51.64	0.25	3
2008	VA	BE	NM27	26.03	52.49	0.25	3
2008	VA	BE	NM28	26.03	53.34	0.25	3
2008	VA	BE	NM29	26.03	54.18	0.25	3
2008	VA	BE	NM30	26.03	55.02	0.25	3
2008	VA	BE	NM31	26.03	55.88	0.25	3
2008	VA	BE	NM32	26.03	56.72	0.25	3
2008	VA	BE	NM33	26.03	57.57	0.25	3
2008	VA	BE	NM34	26.03	58.41	0.25	3
2008	VA	BE	NM35	26.03	59.26	0.25	3

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	VA	BE	NM36	26.03	60.11	0.25	3
2008	VA	BE	NM37	26.03	60.94	0.25	3
2008	VA	BE	NM38	26.03	61.79	0.25	3
2008	VA	BE	NM39	26.03	62.65	0.25	3
2008	VA	BE	NM40	26.03	63.49	0.25	3
2008	VA	BE	NM41	26.03	64.3	0.24	2.9
2009	VA	BA	ES01	22.7	32.02	0.07	0.328
2009	VA	BA	NM01	22.7	36.49	0.25	3
2009	VA	BA	NM02	22.7	40.18	0.25	3
2009	VA	BA	NM03	22.7	43.85	0.25	3
2009	VA	BA	NM04	22.7	47.54	0.25	3
2009	VA	BA	NM05	22.7	51.22	0.25	3
2009	VA	BA	NM06	22.7	54.91	0.25	3
2009	VA	BA	NM07	22.7	58.59	0.25	3
2009	VA	BA	NM08	22.7	62.28	0.25	3
2009	VA	BA	NM09	22.7	65.96	0.25	3
2009	VA	BA	NM10	22.7	69.65	0.25	3
2009	VA	BB	EU01	25.97	26.33	3.79	6.26
2009	VA	BB	EU02	25.97	30.54	0.8	12.11
2009	VA	BB	EU03	25.97	31.58	2.11	32.38
2009	VA	BB	ES01	25.97	32.02	1.04	4.85
2009	VA	BB	NM01	25.97	34.78	0.75	9
2009	VA	BB	NM02	25.97	35.78	0.75	9
2009	VA	BB	NM03	25.97	36.79	0.75	9
2009	VA	BB	NM04	25.97	37.8	0.75	9
2009	VA	BB	NM05	25.97	38.79	0.75	9
2009	VA	BB	NM06	25.97	39.81	0.75	9
2009	VA	BB	NM07	25.97	40.81	0.75	9
2009	VA	BB	NM08	25.97	41.81	0.75	9
2009	VA	BB	NM09	25.97	42.82	0.75	9
2009	VA	BB	NM10	25.97	43.83	0.75	9
2009	VA	BB	NM11	25.97	44.82	0.75	9
2009	VA	BB	NM12	25.97	45.84	0.75	9
2009	VA	BB	NM13	25.97	46.84	0.75	9
2009	VA	BB	NM14	25.97	47.85	0.75	9
2009	VA	BB	NM15	25.97	48.85	0.75	9
2009	VA	BB	NM16	25.97	49.86	0.75	9
2009	VA	BB	NM17	25.97	50.86	0.75	9
2009	VA	BB	NM18	25.97	51.87	0.75	9
2009	VA	BB	NM19	25.97	52.87	0.75	9
2009	VA	BB	NM20	25.97	53.88	0.75	9
2009	VA	BB	NM21	25.97	54.88	0.75	9
2009	VA	BB	NM22	25.97	55.89	0.75	9
2009	VA	BB	NM23	25.97	56.89	0.75	9
2009	VA	BB	NM24	25.97	57.9	0.75	9
2009	VA	BB	NM25	25.97	58.9	0.75	9
2009	VA	BB	NM26	25.97	59.91	0.75	9
2009	VA	BB	NM27	25.97	60.91	0.75	9
2009	VA	BB	NM28	25.97	61.91	0.75	9
2009	VA	BB	NM29	25.97	62.92	0.75	9
2009	VA	BB	NM30	25.97	63.93	0.75	9
2009	VA	BB	NM31	25.97	64.93	0.75	9
2009	VA	BB	NM32	25.97	65.94	0.75	9
2009	VA	BB	NM33	25.97	66.94	0.75	9
2009	VA	BB	NM34	25.97	67.94	0.75	9
2009	VA	BB	NM35	25.97	68.95	0.75	9
2009	VA	BB	NM36	25.97	69.96	0.75	9
2009	VA	BB	NM37	25.97	70.97	0.75	9
2009	VA	BB	NM38	25.97	71.97	0.75	9
2009	VA	BB	NM39	25.97	72.97	0.75	9
2009	VA	BB	NM40	25.97	73.64	0.25	3
2009	VA	BD	EU01	25.76	30.54	0.53	8.06
2009	VA	BD	EU02	25.76	31.58	6.23	95.63
2009	VA	BD	ES01	25.76	32.02	3.31	15.5
2009	VA	BD	NM01	25.76	32.97	0.75	9
2009	VA	BD	NM02	25.76	33.53	0.75	9
2009	VA	BD	NM03	25.76	34.09	0.75	9
2009	VA	BD	NM04	25.76	34.66	0.75	9
2009	VA	BD	NM05	25.76	35.23	0.75	9
2009	VA	BD	NM06	25.76	35.78	0.75	9
2009	VA	BD	NM07	25.76	36.34	0.75	9
2009	VA	BD	NM08	25.76	36.91	0.75	9
2009	VA	BD	NM09	25.76	37.48	0.75	9
2009	VA	BD	NM10	25.76	38.04	0.75	9
2009	VA	BD	NM11	25.76	38.59	0.75	9
2009	VA	BD	NM12	25.76	39.16	0.75	9
2009	VA	BD	NM13	25.76	39.72	0.75	9

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	VA	BD	NM14	25.76	40.29	0.75	9
2009	VA	BD	NM15	25.76	40.84	0.75	9
2009	VA	BD	NM16	25.76	41.41	0.75	9
2009	VA	BD	NM17	25.76	41.97	0.75	9
2009	VA	BD	NM18	25.76	42.53	0.75	9
2009	VA	BD	NM19	25.76	43.1	0.75	9
2009	VA	BD	NM20	25.76	43.67	0.75	9
2009	VA	BD	NM21	25.76	44.22	0.75	9
2009	VA	BD	NM22	25.76	44.78	0.75	9
2009	VA	BD	NM23	25.76	45.35	0.75	9
2009	VA	BD	NM24	25.76	45.92	0.75	9
2009	VA	BD	NM25	25.76	46.47	0.75	9
2009	VA	BD	NM26	25.76	47.03	0.75	9
2009	VA	BD	NM27	25.76	47.59	0.75	9
2009	VA	BD	NM28	25.76	48.16	0.75	9
2009	VA	BD	NM29	25.76	48.73	0.75	9
2009	VA	BD	NM30	25.76	49.28	0.75	9
2009	VA	BD	NM31	25.76	49.84	0.75	9
2009	VA	BD	NM32	25.76	50.41	0.75	9
2009	VA	BD	NM33	25.76	50.96	0.72	8.6
2009	VA	BE	NM01	26.03	30.38	0.25	3
2009	VA	BE	NM02	26.03	31.21	0.25	3
2009	VA	BE	EU01	26.03	31.58	2.45	37.559
2009	VA	BE	ES02	26.03	32.02	2.85	13.321
2009	VA	BE	NM03	26.03	32.06	0.25	3
2009	VA	BE	NM04	26.03	32.91	0.25	3
2009	VA	BE	NM05	26.03	33.74	0.25	3
2009	VA	BE	NM06	26.03	34.58	0.25	3
2009	VA	BE	NM07	26.03	35.44	0.25	3
2009	VA	BE	NM08	26.03	36.27	0.25	3
2009	VA	BE	NM09	26.03	37.11	0.25	3
2009	VA	BE	NM10	26.03	37.96	0.25	3
2009	VA	BE	NM11	26.03	38.8	0.25	3
2009	VA	BE	NM12	26.03	39.64	0.25	3
2009	VA	BE	NM13	26.03	40.49	0.25	3
2009	VA	BE	NM14	26.03	41.32	0.25	3
2009	VA	BE	NM15	26.03	42.17	0.25	3
2009	VA	BE	NM16	26.03	43.02	0.25	3
2009	VA	BE	NM17	26.03	43.85	0.25	3
2009	VA	BE	NM18	26.03	44.69	0.25	3
2009	VA	BE	NM19	26.03	45.54	0.25	3
2009	VA	BE	NM20	26.03	46.39	0.25	3
2009	VA	BE	NM21	26.03	47.22	0.25	3
2009	VA	BE	NM22	26.03	48.07	0.25	3
2009	VA	BE	NM23	26.03	48.92	0.25	3
2009	VA	BE	NM24	26.03	49.75	0.25	3
2009	VA	BE	NM25	26.03	50.6	0.25	3
2009	VA	BE	NM26	26.03	51.43	0.25	3
2009	VA	BE	NM27	26.03	52.28	0.25	3
2009	VA	BE	NM28	26.03	53.13	0.25	3
2009	VA	BE	NM29	26.03	53.97	0.25	3
2009	VA	BE	NM30	26.03	54.8	0.25	3
2009	VA	BE	NM31	26.03	55.65	0.25	3
2009	VA	BE	NM32	26.03	56.5	0.25	3
2009	VA	BE	NM33	26.03	57.33	0.25	3
2009	VA	BE	NM34	26.03	58.18	0.25	3
2009	VA	BE	NM35	26.03	59.03	0.25	3
2009	VA	BE	NM36	26.03	59.86	0.25	3
2009	VA	BE	NM37	26.03	60.71	0.25	3
2009	VA	BE	NM38	26.03	61.55	0.25	3
2009	VA	BE	NM39	26.03	62.39	0.25	3
2009	VA	BE	NM40	26.03	63.24	0.25	3
2009	VA	BE	NM41	26.03	64.04	0.24	2.9
2010	VA	BA	ES01	22.7	31.89	0.05	0.328
2010	VA	BA	NM01	22.7	36.34	0.25	3
2010	VA	BA	NM02	22.7	40.01	0.25	3
2010	VA	BA	NM03	22.7	43.68	0.25	3
2010	VA	BA	NM04	22.7	47.35	0.25	3
2010	VA	BA	NM05	22.7	51.02	0.25	3
2010	VA	BA	NM06	22.7	54.69	0.25	3
2010	VA	BA	NM07	22.7	58.36	0.25	3
2010	VA	BA	NM08	22.7	62.04	0.25	3
2010	VA	BA	NM09	22.7	65.7	0.25	3
2010	VA	BA	NM10	22.7	69.37	0.25	3
2010	VA	BB	EU01	25.97	26.23	3.5	6.26
2010	VA	BB	EU02	25.97	30.42	0.74	12.11
2010	VA	BB	EU03	25.97	31.46	1.94	32.38

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	VA	BB	ES01	25.97	31.89	0.76	4.85
2010	VA	BB	NM01	25.97	34.64	0.75	9
2010	VA	BB	NM02	25.97	35.64	0.75	9
2010	VA	BB	NM03	25.97	36.64	0.75	9
2010	VA	BB	NM04	25.97	37.65	0.75	9
2010	VA	BB	NM05	25.97	38.65	0.75	9
2010	VA	BB	NM06	25.97	39.65	0.75	9
2010	VA	BB	NM07	25.97	40.64	0.75	9
2010	VA	BB	NM08	25.97	41.65	0.75	9
2010	VA	BB	NM09	25.97	42.65	0.75	9
2010	VA	BB	NM10	25.97	43.65	0.75	9
2010	VA	BB	NM11	25.97	44.65	0.75	9
2010	VA	BB	NM12	25.97	45.65	0.75	9
2010	VA	BB	NM13	25.97	46.65	0.75	9
2010	VA	BB	NM14	25.97	47.66	0.75	9
2010	VA	BB	NM15	25.97	48.66	0.75	9
2010	VA	BB	NM16	25.97	49.66	0.75	9
2010	VA	BB	NM17	25.97	50.65	0.75	9
2010	VA	BB	NM18	25.97	51.66	0.75	9
2010	VA	BB	NM19	25.97	52.66	0.75	9
2010	VA	BB	NM20	25.97	53.66	0.75	9
2010	VA	BB	NM21	25.97	54.66	0.75	9
2010	VA	BB	NM22	25.97	55.66	0.75	9
2010	VA	BB	NM23	25.97	56.66	0.75	9
2010	VA	BB	NM24	25.97	57.67	0.75	9
2010	VA	BB	NM25	25.97	58.67	0.75	9
2010	VA	BB	NM26	25.97	59.67	0.75	9
2010	VA	BB	NM27	25.97	60.67	0.75	9
2010	VA	BB	NM28	25.97	61.67	0.75	9
2010	VA	BB	NM29	25.97	62.67	0.75	9
2010	VA	BB	NM30	25.97	63.67	0.75	9
2010	VA	BB	NM31	25.97	64.67	0.75	9
2010	VA	BB	NM32	25.97	65.67	0.75	9
2010	VA	BB	NM33	25.97	66.67	0.75	9
2010	VA	BB	NM34	25.97	67.68	0.75	9
2010	VA	BB	NM35	25.97	68.68	0.75	9
2010	VA	BB	NM36	25.97	69.68	0.75	9
2010	VA	BB	NM37	25.97	70.68	0.75	9
2010	VA	BB	NM38	25.97	71.68	0.75	9
2010	VA	BB	NM39	25.97	72.68	0.75	9
2010	VA	BB	NM40	25.97	73.35	0.25	3
2010	VA	BD	EU01	25.76	30.42	0.49	8.06
2010	VA	BD	EU02	25.76	31.46	5.74	95.63
2010	VA	BD	ES01	25.76	31.89	2.42	15.5
2010	VA	BD	NM01	25.76	32.84	0.75	9
2010	VA	BD	NM02	25.76	33.4	0.75	9
2010	VA	BD	NM03	25.76	33.96	0.75	9
2010	VA	BD	NM04	25.76	34.52	0.75	9
2010	VA	BD	NM05	25.76	35.08	0.75	9
2010	VA	BD	NM06	25.76	35.64	0.75	9
2010	VA	BD	NM07	25.76	36.2	0.75	9
2010	VA	BD	NM08	25.76	36.76	0.75	9
2010	VA	BD	NM09	25.76	37.32	0.75	9
2010	VA	BD	NM10	25.76	37.88	0.75	9
2010	VA	BD	NM11	25.76	38.44	0.75	9
2010	VA	BD	NM12	25.76	39.01	0.75	9
2010	VA	BD	NM13	25.76	39.56	0.75	9
2010	VA	BD	NM14	25.76	40.12	0.75	9
2010	VA	BD	NM15	25.76	40.68	0.75	9
2010	VA	BD	NM16	25.76	41.25	0.75	9
2010	VA	BD	NM17	25.76	41.8	0.75	9
2010	VA	BD	NM18	25.76	42.36	0.75	9
2010	VA	BD	NM19	25.76	42.92	0.75	9
2010	VA	BD	NM20	25.76	43.49	0.75	9
2010	VA	BD	NM21	25.76	44.04	0.75	9
2010	VA	BD	NM22	25.76	44.6	0.75	9
2010	VA	BD	NM23	25.76	45.16	0.75	9
2010	VA	BD	NM24	25.76	45.73	0.75	9
2010	VA	BD	NM25	25.76	46.28	0.75	9
2010	VA	BD	NM26	25.76	46.84	0.75	9
2010	VA	BD	NM27	25.76	47.4	0.75	9
2010	VA	BD	NM28	25.76	47.97	0.75	9
2010	VA	BD	NM29	25.76	48.53	0.75	9
2010	VA	BD	NM30	25.76	49.08	0.75	9
2010	VA	BD	NM31	25.76	49.64	0.75	9
2010	VA	BD	NM32	25.76	50.21	0.75	9
2010	VA	BD	NM33	25.76	50.75	0.72	8.6

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	VA	BE	NM01	26.03	30.25	0.25	3
2010	VA	BE	NM02	26.03	31.09	0.25	3
2010	VA	BE	EU01	26.03	31.46	2.26	37.559
2010	VA	BE	ES02	26.03	31.89	2.08	13.321
2010	VA	BE	NM03	26.03	31.94	0.25	3
2010	VA	BE	NM04	26.03	32.77	0.25	3
2010	VA	BE	NM05	26.03	33.61	0.25	3
2010	VA	BE	NM06	26.03	34.45	0.25	3
2010	VA	BE	NM07	26.03	35.29	0.25	3
2010	VA	BE	NM08	26.03	36.13	0.25	3
2010	VA	BE	NM09	26.03	36.97	0.25	3
2010	VA	BE	NM10	26.03	37.8	0.25	3
2010	VA	BE	NM11	26.03	38.65	0.25	3
2010	VA	BE	NM12	26.03	39.48	0.25	3
2010	VA	BE	NM13	26.03	40.32	0.25	3
2010	VA	BE	NM14	26.03	41.16	0.25	3
2010	VA	BE	NM15	26.03	42	0.25	3
2010	VA	BE	NM16	26.03	42.84	0.25	3
2010	VA	BE	NM17	26.03	43.68	0.25	3
2010	VA	BE	NM18	26.03	44.51	0.25	3
2010	VA	BE	NM19	26.03	45.36	0.25	3
2010	VA	BE	NM20	26.03	46.2	0.25	3
2010	VA	BE	NM21	26.03	47.03	0.25	3
2010	VA	BE	NM22	26.03	47.87	0.25	3
2010	VA	BE	NM23	26.03	48.71	0.25	3
2010	VA	BE	NM24	26.03	49.55	0.25	3
2010	VA	BE	NM25	26.03	50.39	0.25	3
2010	VA	BE	NM26	26.03	51.22	0.25	3
2010	VA	BE	NM27	26.03	52.07	0.25	3
2010	VA	BE	NM28	26.03	52.91	0.25	3
2010	VA	BE	NM29	26.03	53.75	0.25	3
2010	VA	BE	NM30	26.03	54.59	0.25	3
2010	VA	BE	NM31	26.03	55.44	0.25	3
2010	VA	BE	NM32	26.03	56.27	0.25	3
2010	VA	BE	NM33	26.03	57.11	0.25	3
2010	VA	BE	NM34	26.03	57.95	0.25	3
2010	VA	BE	NM35	26.03	58.79	0.25	3
2010	VA	BE	NM36	26.03	59.63	0.25	3
2010	VA	BE	NM37	26.03	60.46	0.25	3
2010	VA	BE	NM38	26.03	61.3	0.25	3
2010	VA	BE	NM39	26.03	62.15	0.25	3
2010	VA	BE	NM40	26.03	62.98	0.25	3
2010	VA	BE	NM41	26.03	63.79	0.24	2.9
2015	VA	BA	ES01	22.7	31.26	0	0.328
2015	VA	BA	NM01	22.7	35.62	0.25	3
2015	VA	BA	NM02	22.7	39.22	0.25	3
2015	VA	BA	NM03	22.7	42.81	0.25	3
2015	VA	BA	NM04	22.7	46.42	0.25	3
2015	VA	BA	NM05	22.7	50.01	0.25	3
2015	VA	BA	NM06	22.7	53.61	0.25	3
2015	VA	BA	NM07	22.7	57.2	0.25	3
2015	VA	BA	NM08	22.7	60.81	0.25	3
2015	VA	BA	NM09	22.7	64.4	0.25	3
2015	VA	BA	NM10	22.7	68	0.25	3
2015	VA	BB	EU01	25.97	25.71	2.03	6.26
2015	VA	BB	EU02	25.97	29.82	0.43	12.11
2015	VA	BB	EU03	25.97	30.83	1.13	32.38
2015	VA	BB	ES01	25.97	31.26	0	4.85
2015	VA	BB	NM01	25.97	33.96	0.75	9
2015	VA	BB	NM02	25.97	34.94	0.75	9
2015	VA	BB	NM03	25.97	35.92	0.75	9
2015	VA	BB	NM04	25.97	36.9	0.75	9
2015	VA	BB	NM05	25.97	37.88	0.75	9
2015	VA	BB	NM06	25.97	38.86	0.75	9
2015	VA	BB	NM07	25.97	39.84	0.75	9
2015	VA	BB	NM08	25.97	40.82	0.75	9
2015	VA	BB	NM09	25.97	41.8	0.75	9
2015	VA	BB	NM10	25.97	42.78	0.75	9
2015	VA	BB	NM11	25.97	43.77	0.75	9
2015	VA	BB	NM12	25.97	44.75	0.75	9
2015	VA	BB	NM13	25.97	45.73	0.75	9
2015	VA	BB	NM14	25.97	46.71	0.75	9
2015	VA	BB	NM15	25.97	47.69	0.75	9
2015	VA	BB	NM16	25.97	48.67	0.75	9
2015	VA	BB	NM17	25.97	49.65	0.75	9
2015	VA	BB	NM18	25.97	50.63	0.75	9
2015	VA	BB	NM19	25.97	51.61	0.75	9

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	VA	BB	NM20	25.97	52.59	0.75	9
2015	VA	BB	NM21	25.97	53.58	0.75	9
2015	VA	BB	NM22	25.97	54.56	0.75	9
2015	VA	BB	NM23	25.97	55.54	0.75	9
2015	VA	BB	NM24	25.97	56.52	0.75	9
2015	VA	BB	NM25	25.97	57.5	0.75	9
2015	VA	BB	NM26	25.97	58.48	0.75	9
2015	VA	BB	NM27	25.97	59.46	0.75	9
2015	VA	BB	NM28	25.97	60.44	0.75	9
2015	VA	BB	NM29	25.97	61.42	0.75	9
2015	VA	BB	NM30	25.97	62.4	0.75	9
2015	VA	BB	NM31	25.97	63.4	0.75	9
2015	VA	BB	NM32	25.97	64.37	0.75	9
2015	VA	BB	NM33	25.97	65.36	0.75	9
2015	VA	BB	NM34	25.97	66.33	0.75	9
2015	VA	BB	NM35	25.97	67.32	0.75	9
2015	VA	BB	NM36	25.97	68.29	0.75	9
2015	VA	BB	NM37	25.97	69.28	0.75	9
2015	VA	BB	NM38	25.97	70.25	0.75	9
2015	VA	BB	NM39	25.97	71.24	0.75	9
2015	VA	BB	NM40	25.97	71.89	0.25	3
2015	VA	BD	EU01	25.76	29.82	0.28	8.06
2015	VA	BD	EU02	25.76	30.83	3.33	95.63
2015	VA	BD	ES01	25.76	31.26	0	15.5
2015	VA	BD	NM01	25.76	32.19	0.75	9
2015	VA	BD	NM02	25.76	32.74	0.75	9
2015	VA	BD	NM03	25.76	33.29	0.75	9
2015	VA	BD	NM04	25.76	33.83	0.75	9
2015	VA	BD	NM05	25.76	34.39	0.75	9
2015	VA	BD	NM06	25.76	34.94	0.75	9
2015	VA	BD	NM07	25.76	35.48	0.75	9
2015	VA	BD	NM08	25.76	36.03	0.75	9
2015	VA	BD	NM09	25.76	36.59	0.75	9
2015	VA	BD	NM10	25.76	37.13	0.75	9
2015	VA	BD	NM11	25.76	37.68	0.75	9
2015	VA	BD	NM12	25.76	38.23	0.75	9
2015	VA	BD	NM13	25.76	38.78	0.75	9
2015	VA	BD	NM14	25.76	39.33	0.75	9
2015	VA	BD	NM15	25.76	39.87	0.75	9
2015	VA	BD	NM16	25.76	40.42	0.75	9
2015	VA	BD	NM17	25.76	40.98	0.75	9
2015	VA	BD	NM18	25.76	41.52	0.75	9
2015	VA	BD	NM19	25.76	42.07	0.75	9
2015	VA	BD	NM20	25.76	42.63	0.75	9
2015	VA	BD	NM21	25.76	43.17	0.75	9
2015	VA	BD	NM22	25.76	43.72	0.75	9
2015	VA	BD	NM23	25.76	44.27	0.75	9
2015	VA	BD	NM24	25.76	44.82	0.75	9
2015	VA	BD	NM25	25.76	45.37	0.75	9
2015	VA	BD	NM26	25.76	45.92	0.75	9
2015	VA	BD	NM27	25.76	46.46	0.75	9
2015	VA	BD	NM28	25.76	47.02	0.75	9
2015	VA	BD	NM29	25.76	47.57	0.75	9
2015	VA	BD	NM30	25.76	48.11	0.75	9
2015	VA	BD	NM31	25.76	48.66	0.75	9
2015	VA	BD	NM32	25.76	49.22	0.75	9
2015	VA	BD	NM33	25.76	49.74	0.72	8.6
2015	VA	BE	NM01	26.03	29.65	0.25	3
2015	VA	BE	NM02	26.03	30.47	0.25	3
2015	VA	BE	EU01	26.03	30.83	1.31	37.559
2015	VA	BE	ES02	26.03	31.26	0	13.321
2015	VA	BE	NM03	26.03	31.3	0.25	3
2015	VA	BE	NM04	26.03	32.12	0.25	3
2015	VA	BE	NM05	26.03	32.94	0.25	3
2015	VA	BE	NM06	26.03	33.77	0.25	3
2015	VA	BE	NM07	26.03	34.59	0.25	3
2015	VA	BE	NM08	26.03	35.42	0.25	3
2015	VA	BE	NM09	26.03	36.23	0.25	3
2015	VA	BE	NM10	26.03	37.05	0.25	3
2015	VA	BE	NM11	26.03	37.88	0.25	3
2015	VA	BE	NM12	26.03	38.7	0.25	3
2015	VA	BE	NM13	26.03	39.52	0.25	3
2015	VA	BE	NM14	26.03	40.34	0.25	3
2015	VA	BE	NM15	26.03	41.17	0.25	3
2015	VA	BE	NM16	26.03	41.99	0.25	3
2015	VA	BE	NM17	26.03	42.81	0.25	3
2015	VA	BE	NM18	26.03	43.63	0.25	3

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	VA	BE	NM19	26.03	44.46	0.25	3
2015	VA	BE	NM20	26.03	45.28	0.25	3
2015	VA	BE	NM21	26.03	46.11	0.25	3
2015	VA	BE	NM22	26.03	46.92	0.25	3
2015	VA	BE	NM23	26.03	47.76	0.25	3
2015	VA	BE	NM24	26.03	48.57	0.25	3
2015	VA	BE	NM25	26.03	49.39	0.25	3
2015	VA	BE	NM26	26.03	50.21	0.25	3
2015	VA	BE	NM27	26.03	51.04	0.25	3
2015	VA	BE	NM28	26.03	51.86	0.25	3
2015	VA	BE	NM29	26.03	52.68	0.25	3
2015	VA	BE	NM30	26.03	53.5	0.25	3
2015	VA	BE	NM31	26.03	54.33	0.25	3
2015	VA	BE	NM32	26.03	55.15	0.25	3
2015	VA	BE	NM33	26.03	55.97	0.25	3
2015	VA	BE	NM34	26.03	56.8	0.25	3
2015	VA	BE	NM35	26.03	57.62	0.25	3
2015	VA	BE	NM36	26.03	58.45	0.25	3
2015	VA	BE	NM37	26.03	59.26	0.25	3
2015	VA	BE	NM38	26.03	60.09	0.25	3
2015	VA	BE	NM39	26.03	60.91	0.25	3
2015	VA	BE	NM40	26.03	61.74	0.25	3
2015	VA	BE	NM41	26.03	62.53	0.24	2.9
2020	VA	BA	ES01	22.7	30.63	0	0.328
2020	VA	BA	NM01	22.7	34.91	0.25	3
2020	VA	BA	NM02	22.7	38.44	0.25	3
2020	VA	BA	NM03	22.7	41.96	0.25	3
2020	VA	BA	NM04	22.7	45.49	0.25	3
2020	VA	BA	NM05	22.7	49.02	0.25	3
2020	VA	BA	NM06	22.7	52.55	0.25	3
2020	VA	BA	NM07	22.7	56.07	0.25	3
2020	VA	BA	NM08	22.7	59.59	0.25	3
2020	VA	BA	NM09	22.7	63.12	0.25	3
2020	VA	BA	NM10	22.7	66.65	0.25	3
2020	VA	BB	EU01	25.97	25.19	0.56	6.26
2020	VA	BB	EU02	25.97	29.94	0.43	12.11
2020	VA	BB	ES01	25.97	30.63	0	4.85
2020	VA	BB	EU03	25.97	30.95	1.13	32.38
2020	VA	BB	NM01	25.97	33.28	0.75	9
2020	VA	BB	NM02	25.97	34.25	0.75	9
2020	VA	BB	NM03	25.97	35.2	0.75	9
2020	VA	BB	NM04	25.97	36.16	0.75	9
2020	VA	BB	NM05	25.97	37.13	0.75	9
2020	VA	BB	NM06	25.97	38.09	0.75	9
2020	VA	BB	NM07	25.97	39.05	0.75	9
2020	VA	BB	NM08	25.97	40.01	0.75	9
2020	VA	BB	NM09	25.97	40.98	0.75	9
2020	VA	BB	NM10	25.97	41.94	0.75	9
2020	VA	BB	NM11	25.97	42.9	0.75	9
2020	VA	BB	NM12	25.97	43.85	0.75	9
2020	VA	BB	NM13	25.97	44.82	0.75	9
2020	VA	BB	NM14	25.97	45.78	0.75	9
2020	VA	BB	NM15	25.97	46.74	0.75	9
2020	VA	BB	NM16	25.97	47.7	0.75	9
2020	VA	BB	NM17	25.97	48.67	0.75	9
2020	VA	BB	NM18	25.97	49.63	0.75	9
2020	VA	BB	NM19	25.97	50.59	0.75	9
2020	VA	BB	NM20	25.97	51.56	0.75	9
2020	VA	BB	NM21	25.97	52.52	0.75	9
2020	VA	BB	NM22	25.97	53.47	0.75	9
2020	VA	BB	NM23	25.97	54.43	0.75	9
2020	VA	BB	NM24	25.97	55.4	0.75	9
2020	VA	BB	NM25	25.97	56.36	0.75	9
2020	VA	BB	NM26	25.97	57.32	0.75	9
2020	VA	BB	NM27	25.97	58.29	0.75	9
2020	VA	BB	NM28	25.97	59.25	0.75	9
2020	VA	BB	NM29	25.97	60.21	0.75	9
2020	VA	BB	NM30	25.97	61.17	0.75	9
2020	VA	BB	NM31	25.97	62.14	0.75	9
2020	VA	BB	NM32	25.97	63.1	0.75	9
2020	VA	BB	NM33	25.97	64.05	0.75	9
2020	VA	BB	NM34	25.97	65.01	0.75	9
2020	VA	BB	NM35	25.97	65.98	0.75	9
2020	VA	BB	NM36	25.97	66.94	0.75	9
2020	VA	BB	NM37	25.97	67.9	0.75	9
2020	VA	BB	NM38	25.97	68.86	0.75	9
2020	VA	BB	NM39	25.97	69.83	0.75	9

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	VA	BB	NM40	25.97	70.46	0.25	3
2020	VA	BD	EU01	25.76	29.23	0.08	8.06
2020	VA	BD	EU02	25.76	30.22	0.92	95.63
2020	VA	BD	ES01	25.76	30.63	0	15.5
2020	VA	BD	NM01	25.76	31.55	0.75	9
2020	VA	BD	NM02	25.76	32.08	0.75	9
2020	VA	BD	NM03	25.76	32.63	0.75	9
2020	VA	BD	NM04	25.76	33.16	0.75	9
2020	VA	BD	NM05	25.76	33.7	0.75	9
2020	VA	BD	NM06	25.76	34.23	0.75	9
2020	VA	BD	NM07	25.76	34.78	0.75	9
2020	VA	BD	NM08	25.76	35.32	0.75	9
2020	VA	BD	NM09	25.76	35.86	0.75	9
2020	VA	BD	NM10	25.76	36.4	0.75	9
2020	VA	BD	NM11	25.76	36.93	0.75	9
2020	VA	BD	NM12	25.76	37.47	0.75	9
2020	VA	BD	NM13	25.76	38.01	0.75	9
2020	VA	BD	NM14	25.76	38.55	0.75	9
2020	VA	BD	NM15	25.76	39.08	0.75	9
2020	VA	BD	NM16	25.76	39.62	0.75	9
2020	VA	BD	NM17	25.76	40.16	0.75	9
2020	VA	BD	NM18	25.76	40.7	0.75	9
2020	VA	BD	NM19	25.76	41.23	0.75	9
2020	VA	BD	NM20	25.76	41.78	0.75	9
2020	VA	BD	NM21	25.76	42.32	0.75	9
2020	VA	BD	NM22	25.76	42.85	0.75	9
2020	VA	BD	NM23	25.76	43.39	0.75	9
2020	VA	BD	NM24	25.76	43.93	0.75	9
2020	VA	BD	NM25	25.76	44.47	0.75	9
2020	VA	BD	NM26	25.76	45	0.75	9
2020	VA	BD	NM27	25.76	45.55	0.75	9
2020	VA	BD	NM28	25.76	46.08	0.75	9
2020	VA	BD	NM29	25.76	46.62	0.75	9
2020	VA	BD	NM30	25.76	47.15	0.75	9
2020	VA	BD	NM31	25.76	47.7	0.75	9
2020	VA	BD	NM32	25.76	48.24	0.75	9
2020	VA	BD	NM33	25.76	48.76	0.72	8.6
2020	VA	BE	NM01	26.03	29.06	0.25	3
2020	VA	BE	NM02	26.03	29.86	0.25	3
2020	VA	BE	EU01	26.03	30.22	0.36	37.559
2020	VA	BE	ES02	26.03	30.63	0	13.321
2020	VA	BE	NM03	26.03	30.68	0.25	3
2020	VA	BE	NM04	26.03	31.48	0.25	3
2020	VA	BE	NM05	26.03	32.28	0.25	3
2020	VA	BE	NM06	26.03	33.09	0.25	3
2020	VA	BE	NM07	26.03	33.9	0.25	3
2020	VA	BE	NM08	26.03	34.71	0.25	3
2020	VA	BE	NM09	26.03	35.52	0.25	3
2020	VA	BE	NM10	26.03	36.32	0.25	3
2020	VA	BE	NM11	26.03	37.13	0.25	3
2020	VA	BE	NM12	26.03	37.94	0.25	3
2020	VA	BE	NM13	26.03	38.74	0.25	3
2020	VA	BE	NM14	26.03	39.54	0.25	3
2020	VA	BE	NM15	26.03	40.35	0.25	3
2020	VA	BE	NM16	26.03	41.16	0.25	3
2020	VA	BE	NM17	26.03	41.96	0.25	3
2020	VA	BE	NM18	26.03	42.76	0.25	3
2020	VA	BE	NM19	26.03	43.58	0.25	3
2020	VA	BE	NM20	26.03	44.38	0.25	3
2020	VA	BE	NM21	26.03	45.19	0.25	3
2020	VA	BE	NM22	26.03	45.99	0.25	3
2020	VA	BE	NM23	26.03	46.81	0.25	3
2020	VA	BE	NM24	26.03	47.61	0.25	3
2020	VA	BE	NM25	26.03	48.41	0.25	3
2020	VA	BE	NM26	26.03	49.22	0.25	3
2020	VA	BE	NM27	26.03	50.03	0.25	3
2020	VA	BE	NM28	26.03	50.83	0.25	3
2020	VA	BE	NM29	26.03	51.64	0.25	3
2020	VA	BE	NM30	26.03	52.44	0.25	3
2020	VA	BE	NM31	26.03	53.25	0.25	3
2020	VA	BE	NM32	26.03	54.05	0.25	3
2020	VA	BE	NM33	26.03	54.86	0.25	3
2020	VA	BE	NM34	26.03	55.66	0.25	3
2020	VA	BE	NM35	26.03	56.47	0.25	3
2020	VA	BE	NM36	26.03	57.29	0.25	3
2020	VA	BE	NM37	26.03	58.09	0.25	3
2020	VA	BE	NM38	26.03	58.89	0.25	3

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	VA	BE	NM39	26.03	59.71	0.25	3
2020	VA	BE	NM40	26.03	60.51	0.25	3
2020	VA	BE	NM41	26.03	61.28	0.24	2.9
2025	VA	BA	ES01	22.7	30.03	0	0.328
2025	VA	BA	NM01	22.7	34.21	0.25	3
2025	VA	BA	NM02	22.7	37.68	0.25	3
2025	VA	BA	NM03	22.7	41.13	0.25	3
2025	VA	BA	NM04	22.7	44.59	0.25	3
2025	VA	BA	NM05	22.7	48.05	0.25	3
2025	VA	BA	NM06	22.7	51.5	0.25	3
2025	VA	BA	NM07	22.7	54.96	0.25	3
2025	VA	BA	NM08	22.7	58.41	0.25	3
2025	VA	BA	NM09	22.7	61.87	0.25	3
2025	VA	BA	NM10	22.7	65.32	0.25	3
2025	VA	BB	EU01	25.97	24.7	0	6.26
2025	VA	BB	EU02	25.97	29.14	0	12.11
2025	VA	BB	ES01	25.97	30.03	0	4.85
2025	VA	BB	EU03	25.97	30.12	1.13	32.38
2025	VA	BB	NM01	25.97	32.62	0.75	9
2025	VA	BB	NM02	25.97	33.57	0.75	9
2025	VA	BB	NM03	25.97	34.5	0.75	9
2025	VA	BB	NM04	25.97	35.45	0.75	9
2025	VA	BB	NM05	25.97	36.39	0.75	9
2025	VA	BB	NM06	25.97	37.33	0.75	9
2025	VA	BB	NM07	25.97	38.28	0.75	9
2025	VA	BB	NM08	25.97	39.22	0.75	9
2025	VA	BB	NM09	25.97	40.16	0.75	9
2025	VA	BB	NM10	25.97	41.1	0.75	9
2025	VA	BB	NM11	25.97	42.05	0.75	9
2025	VA	BB	NM12	25.97	42.99	0.75	9
2025	VA	BB	NM13	25.97	43.93	0.75	9
2025	VA	BB	NM14	25.97	44.87	0.75	9
2025	VA	BB	NM15	25.97	45.82	0.75	9
2025	VA	BB	NM16	25.97	46.76	0.75	9
2025	VA	BB	NM17	25.97	47.7	0.75	9
2025	VA	BB	NM18	25.97	48.65	0.75	9
2025	VA	BB	NM19	25.97	49.58	0.75	9
2025	VA	BB	NM20	25.97	50.53	0.75	9
2025	VA	BB	NM21	25.97	51.47	0.75	9
2025	VA	BB	NM22	25.97	52.42	0.75	9
2025	VA	BB	NM23	25.97	53.35	0.75	9
2025	VA	BB	NM24	25.97	54.3	0.75	9
2025	VA	BB	NM25	25.97	55.25	0.75	9
2025	VA	BB	NM26	25.97	56.18	0.75	9
2025	VA	BB	NM27	25.97	57.13	0.75	9
2025	VA	BB	NM28	25.97	58.07	0.75	9
2025	VA	BB	NM29	25.97	59.02	0.75	9
2025	VA	BB	NM30	25.97	59.95	0.75	9
2025	VA	BB	NM31	25.97	60.9	0.75	9
2025	VA	BB	NM32	25.97	61.85	0.75	9
2025	VA	BB	NM33	25.97	62.78	0.75	9
2025	VA	BB	NM34	25.97	63.73	0.75	9
2025	VA	BB	NM35	25.97	64.67	0.75	9
2025	VA	BB	NM36	25.97	65.61	0.75	9
2025	VA	BB	NM37	25.97	66.55	0.75	9
2025	VA	BB	NM38	25.97	67.5	0.75	9
2025	VA	BB	NM39	25.97	68.43	0.75	9
2025	VA	BB	NM40	25.97	69.07	0.25	3
2025	VA	BD	EU01	25.76	29.14	0	8.06
2025	VA	BD	ES01	25.76	30.03	0	15.5
2025	VA	BD	EU02	25.76	30.13	0.92	95.63
2025	VA	BD	NM01	25.76	30.92	0.75	9
2025	VA	BD	NM02	25.76	31.45	0.75	9
2025	VA	BD	NM03	25.76	31.97	0.75	9
2025	VA	BD	NM04	25.76	32.51	0.75	9
2025	VA	BD	NM05	25.76	33.03	0.75	9
2025	VA	BD	NM06	25.76	33.57	0.75	9
2025	VA	BD	NM07	25.76	34.09	0.75	9
2025	VA	BD	NM08	25.76	34.62	0.75	9
2025	VA	BD	NM09	25.76	35.15	0.75	9
2025	VA	BD	NM10	25.76	35.67	0.75	9
2025	VA	BD	NM11	25.76	36.2	0.75	9
2025	VA	BD	NM12	25.76	36.73	0.75	9
2025	VA	BD	NM13	25.76	37.26	0.75	9
2025	VA	BD	NM14	25.76	37.78	0.75	9
2025	VA	BD	NM15	25.76	38.3	0.75	9
2025	VA	BD	NM16	25.76	38.84	0.75	9

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	VA	BD	NM17	25.76	39.36	0.75	9
2025	VA	BD	NM18	25.76	39.89	0.75	9
2025	VA	BD	NM19	25.76	40.42	0.75	9
2025	VA	BD	NM20	25.76	40.96	0.75	9
2025	VA	BD	NM21	25.76	41.48	0.75	9
2025	VA	BD	NM22	25.76	42	0.75	9
2025	VA	BD	NM23	25.76	42.53	0.75	9
2025	VA	BD	NM24	25.76	43.06	0.75	9
2025	VA	BD	NM25	25.76	43.59	0.75	9
2025	VA	BD	NM26	25.76	44.11	0.75	9
2025	VA	BD	NM27	25.76	44.63	0.75	9
2025	VA	BD	NM28	25.76	45.17	0.75	9
2025	VA	BD	NM29	25.76	45.69	0.75	9
2025	VA	BD	NM30	25.76	46.22	0.75	9
2025	VA	BD	NM31	25.76	46.75	0.75	9
2025	VA	BD	NM32	25.76	47.28	0.75	9
2025	VA	BD	NM33	25.76	47.79	0.72	8.6
2025	VA	BE	NM01	26.03	28.48	0.25	3
2025	VA	BE	NM02	26.03	29.27	0.25	3
2025	VA	BE	EU01	26.03	29.62	0	37.559
2025	VA	BE	ES02	26.03	30.03	0	13.321
2025	VA	BE	NM03	26.03	30.08	0.25	3
2025	VA	BE	NM04	26.03	30.86	0.25	3
2025	VA	BE	NM05	26.03	31.65	0.25	3
2025	VA	BE	NM06	26.03	32.44	0.25	3
2025	VA	BE	NM07	26.03	33.23	0.25	3
2025	VA	BE	NM08	26.03	34.02	0.25	3
2025	VA	BE	NM09	26.03	34.8	0.25	3
2025	VA	BE	NM10	26.03	35.59	0.25	3
2025	VA	BE	NM11	26.03	36.4	0.25	3
2025	VA	BE	NM12	26.03	37.18	0.25	3
2025	VA	BE	NM13	26.03	37.97	0.25	3
2025	VA	BE	NM14	26.03	38.76	0.25	3
2025	VA	BE	NM15	26.03	39.55	0.25	3
2025	VA	BE	NM16	26.03	40.34	0.25	3
2025	VA	BE	NM17	26.03	41.13	0.25	3
2025	VA	BE	NM18	26.03	41.91	0.25	3
2025	VA	BE	NM19	26.03	42.72	0.25	3
2025	VA	BE	NM20	26.03	43.5	0.25	3
2025	VA	BE	NM21	26.03	44.29	0.25	3
2025	VA	BE	NM22	26.03	45.08	0.25	3
2025	VA	BE	NM23	26.03	45.87	0.25	3
2025	VA	BE	NM24	26.03	46.66	0.25	3
2025	VA	BE	NM25	26.03	47.46	0.25	3
2025	VA	BE	NM26	26.03	48.24	0.25	3
2025	VA	BE	NM27	26.03	49.04	0.25	3
2025	VA	BE	NM28	26.03	49.83	0.25	3
2025	VA	BE	NM29	26.03	50.61	0.25	3
2025	VA	BE	NM30	26.03	51.4	0.25	3
2025	VA	BE	NM31	26.03	52.19	0.25	3
2025	VA	BE	NM32	26.03	52.98	0.25	3
2025	VA	BE	NM33	26.03	53.78	0.25	3
2025	VA	BE	NM34	26.03	54.56	0.25	3
2025	VA	BE	NM35	26.03	55.36	0.25	3
2025	VA	BE	NM36	26.03	56.15	0.25	3
2025	VA	BE	NM37	26.03	56.93	0.25	3
2025	VA	BE	NM38	26.03	57.72	0.25	3
2025	VA	BE	NM39	26.03	58.51	0.25	3
2025	VA	BE	NM40	26.03	59.31	0.25	3
2025	VA	BE	NM41	26.03	60.06	0.24	2.9
2035	VA	BA	ES01	22.7	29.43	0	0.328
2035	VA	BA	NM01	22.7	33.54	0.25	3
2035	VA	BA	NM02	22.7	36.93	0.25	3
2035	VA	BA	NM03	22.7	40.31	0.25	3
2035	VA	BA	NM04	22.7	43.71	0.25	3
2035	VA	BA	NM05	22.7	47.09	0.25	3
2035	VA	BA	NM06	22.7	50.48	0.25	3
2035	VA	BA	NM07	22.7	53.87	0.25	3
2035	VA	BA	NM08	22.7	57.25	0.25	3
2035	VA	BA	NM09	22.7	60.64	0.25	3
2035	VA	BA	NM10	22.7	64.03	0.25	3
2035	VA	BB	EU01	25.97	24.21	0	6.26
2035	VA	BB	EU02	25.97	28.56	0	12.11
2035	VA	BB	ES01	25.97	29.43	0	4.85
2035	VA	BB	EU03	25.97	29.52	1.13	32.38
2035	VA	BB	NM01	25.97	31.97	0.75	9
2035	VA	BB	NM02	25.97	32.9	0.75	9

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	VA	BB	NM03	25.97	33.82	0.75	9
2035	VA	BB	NM04	25.97	34.75	0.75	9
2035	VA	BB	NM05	25.97	35.67	0.75	9
2035	VA	BB	NM06	25.97	36.59	0.75	9
2035	VA	BB	NM07	25.97	37.52	0.75	9
2035	VA	BB	NM08	25.97	38.44	0.75	9
2035	VA	BB	NM09	25.97	39.36	0.75	9
2035	VA	BB	NM10	25.97	40.29	0.75	9
2035	VA	BB	NM11	25.97	41.21	0.75	9
2035	VA	BB	NM12	25.97	42.14	0.75	9
2035	VA	BB	NM13	25.97	43.06	0.75	9
2035	VA	BB	NM14	25.97	43.98	0.75	9
2035	VA	BB	NM15	25.97	44.91	0.75	9
2035	VA	BB	NM16	25.97	45.83	0.75	9
2035	VA	BB	NM17	25.97	46.75	0.75	9
2035	VA	BB	NM18	25.97	47.68	0.75	9
2035	VA	BB	NM19	25.97	48.6	0.75	9
2035	VA	BB	NM20	25.97	49.53	0.75	9
2035	VA	BB	NM21	25.97	50.45	0.75	9
2035	VA	BB	NM22	25.97	51.37	0.75	9
2035	VA	BB	NM23	25.97	52.3	0.75	9
2035	VA	BB	NM24	25.97	53.22	0.75	9
2035	VA	BB	NM25	25.97	54.14	0.75	9
2035	VA	BB	NM26	25.97	55.07	0.75	9
2035	VA	BB	NM27	25.97	55.99	0.75	9
2035	VA	BB	NM28	25.97	56.92	0.75	9
2035	VA	BB	NM29	25.97	57.84	0.75	9
2035	VA	BB	NM30	25.97	58.77	0.75	9
2035	VA	BB	NM31	25.97	59.7	0.75	9
2035	VA	BB	NM32	25.97	60.61	0.75	9
2035	VA	BB	NM33	25.97	61.55	0.75	9
2035	VA	BB	NM34	25.97	62.46	0.75	9
2035	VA	BB	NM35	25.97	63.39	0.75	9
2035	VA	BB	NM36	25.97	64.31	0.75	9
2035	VA	BB	NM37	25.97	65.24	0.75	9
2035	VA	BB	NM38	25.97	66.16	0.75	9
2035	VA	BB	NM39	25.97	67.09	0.75	9
2035	VA	BB	NM40	25.97	67.7	0.25	3
2035	VA	BD	EU01	25.76	28.56	0	8.06
2035	VA	BD	ES01	25.76	29.43	0	15.5
2035	VA	BD	EU02	25.76	29.53	0.92	95.63
2035	VA	BD	NM01	25.76	30.31	0.75	9
2035	VA	BD	NM02	25.76	30.82	0.75	9
2035	VA	BD	NM03	25.76	31.35	0.75	9
2035	VA	BD	NM04	25.76	31.86	0.75	9
2035	VA	BD	NM05	25.76	32.38	0.75	9
2035	VA	BD	NM06	25.76	32.9	0.75	9
2035	VA	BD	NM07	25.76	33.41	0.75	9
2035	VA	BD	NM08	25.76	33.93	0.75	9
2035	VA	BD	NM09	25.76	34.45	0.75	9
2035	VA	BD	NM10	25.76	34.96	0.75	9
2035	VA	BD	NM11	25.76	35.48	0.75	9
2035	VA	BD	NM12	25.76	36	0.75	9
2035	VA	BD	NM13	25.76	36.52	0.75	9
2035	VA	BD	NM14	25.76	37.03	0.75	9
2035	VA	BD	NM15	25.76	37.55	0.75	9
2035	VA	BD	NM16	25.76	38.07	0.75	9
2035	VA	BD	NM17	25.76	38.58	0.75	9
2035	VA	BD	NM18	25.76	39.09	0.75	9
2035	VA	BD	NM19	25.76	39.62	0.75	9
2035	VA	BD	NM20	25.76	40.14	0.75	9
2035	VA	BD	NM21	25.76	40.66	0.75	9
2035	VA	BD	NM22	25.76	41.17	0.75	9
2035	VA	BD	NM23	25.76	41.68	0.75	9
2035	VA	BD	NM24	25.76	42.2	0.75	9
2035	VA	BD	NM25	25.76	42.72	0.75	9
2035	VA	BD	NM26	25.76	43.24	0.75	9
2035	VA	BD	NM27	25.76	43.75	0.75	9
2035	VA	BD	NM28	25.76	44.28	0.75	9
2035	VA	BD	NM29	25.76	44.79	0.75	9
2035	VA	BD	NM30	25.76	45.3	0.75	9
2035	VA	BD	NM31	25.76	45.82	0.75	9
2035	VA	BD	NM32	25.76	46.34	0.75	9
2035	VA	BD	NM33	25.76	46.84	0.72	8.6
2035	VA	BE	NM01	26.03	27.92	0.25	3
2035	VA	BE	NM02	26.03	28.69	0.25	3
2035	VA	BE	EU01	26.03	29.03	0	37.559

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	VA	BE	ES02	26.03	29.43	0	13.321
2035	VA	BE	NM03	26.03	29.47	0.25	3
2035	VA	BE	NM04	26.03	30.24	0.25	3
2035	VA	BE	NM05	26.03	31.02	0.25	3
2035	VA	BE	NM06	26.03	31.79	0.25	3
2035	VA	BE	NM07	26.03	32.57	0.25	3
2035	VA	BE	NM08	26.03	33.34	0.25	3
2035	VA	BE	NM09	26.03	34.11	0.25	3
2035	VA	BE	NM10	26.03	34.89	0.25	3
2035	VA	BE	NM11	26.03	35.67	0.25	3
2035	VA	BE	NM12	26.03	36.44	0.25	3
2035	VA	BE	NM13	26.03	37.21	0.25	3
2035	VA	BE	NM14	26.03	37.99	0.25	3
2035	VA	BE	NM15	26.03	38.77	0.25	3
2035	VA	BE	NM16	26.03	39.54	0.25	3
2035	VA	BE	NM17	26.03	40.31	0.25	3
2035	VA	BE	NM18	26.03	41.09	0.25	3
2035	VA	BE	NM19	26.03	41.87	0.25	3
2035	VA	BE	NM20	26.03	42.64	0.25	3
2035	VA	BE	NM21	26.03	43.41	0.25	3
2035	VA	BE	NM22	26.03	44.19	0.25	3
2035	VA	BE	NM23	26.03	44.97	0.25	3
2035	VA	BE	NM24	26.03	45.74	0.25	3
2035	VA	BE	NM25	26.03	46.51	0.25	3
2035	VA	BE	NM26	26.03	47.28	0.25	3
2035	VA	BE	NM27	26.03	48.07	0.25	3
2035	VA	BE	NM28	26.03	48.84	0.25	3
2035	VA	BE	NM29	26.03	49.61	0.25	3
2035	VA	BE	NM30	26.03	50.38	0.25	3
2035	VA	BE	NM31	26.03	51.16	0.25	3
2035	VA	BE	NM32	26.03	51.94	0.25	3
2035	VA	BE	NM33	26.03	52.71	0.25	3
2035	VA	BE	NM34	26.03	53.47	0.25	3
2035	VA	BE	NM35	26.03	54.26	0.25	3
2035	VA	BE	NM36	26.03	55.04	0.25	3
2035	VA	BE	NM37	26.03	55.8	0.25	3
2035	VA	BE	NM38	26.03	56.57	0.25	3
2035	VA	BE	NM39	26.03	57.35	0.25	3
2035	VA	BE	NM40	26.03	58.13	0.25	3
2035	VA	BE	NM41	26.03	58.87	0.24	2.9
2007	WA	BE	NM01	25.06	17.13	1	12
2007	WA	BE	NM02	25.06	19.54	1	12
2007	WA	SE	ES01	15.46	14.87	5.64	145
2008	WA	BE	NM01	25.06	17.07	1	12
2008	WA	BE	NM02	25.06	19.46	1	12
2008	WA	SE	ES01	15.46	14.8	5.64	145
2009	WA	BE	NM01	25.06	17	1	12
2009	WA	BE	NM02	25.06	19.39	1	12
2009	WA	SE	ES01	15.46	14.75	5.64	145
2010	WA	BE	NM01	25.06	16.93	1	12
2010	WA	BE	NM02	25.06	19.31	1	12
2010	WA	SE	ES01	15.46	14.69	5.64	145
2015	WA	BE	NM01	25.06	16.6	1	12
2015	WA	BE	NM02	25.06	18.92	1	12
2015	WA	SE	ES01	15.46	14.4	5.64	145
2020	WA	BE	NM01	25.06	16.26	1	12
2020	WA	BE	NM02	25.06	18.55	1	12
2020	WA	SE	ES01	15.46	14.11	5.64	145
2025	WA	BE	NM01	25.06	15.94	1	12
2025	WA	BE	NM02	25.06	18.18	1	12
2025	WA	SE	ES01	15.46	13.83	5.64	145
2035	WA	BE	NM01	25.06	15.63	1	12
2035	WA	BE	NM02	25.06	17.81	1	12
2035	WA	SE	ES01	15.46	13.56	5.64	145
2007	WG	BB	ES01	21.67	10.77	0.38	8.758
2007	WG	BB	NM01	21.67	11.84	2	120
2007	WG	BB	NM02	21.67	13.67	2	120
2007	WG	BB	NM03	21.67	15.51	2	120
2007	WG	BB	NM04	21.67	17.33	2	120
2007	WG	BB	NM05	21.67	19.17	2	120
2007	WG	BB	NM06	21.67	21.01	2	120
2007	WG	BB	NM07	21.67	22.84	2	120
2007	WG	BB	NM08	21.67	24.68	2	120
2007	WG	BE	ES01	23.39	12.4	2.86	65.672
2007	WG	SA	ES01	20.02	10.77	0.22	5.046
2007	WG	SB	ES01	19.01	9.01	5.2	119.233
2007	WG	SB	ES02	19.01	10.77	2.19	50.326

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	WG	SD	ES01	18.5	9.01	0.45	10.368
2007	WG	SD	ES02	18.5	10.77	0.25	5.78
2007	WG	SD	NM01	18.5	16.65	2	160
2007	WG	SD	NM02	18.5	17.16	2	160
2007	WG	SD	NM03	18.5	17.66	2	160
2007	WG	SD	NM04	18.5	18.17	2	160
2007	WG	SD	NM05	18.5	18.67	2	160
2007	WG	SD	NM06	18.5	19.17	2	160
2007	WG	SD	NM07	18.5	19.68	2	160
2007	WG	SD	NM08	18.5	20.18	2	160
2007	WG	SD	NM09	18.5	20.69	2	160
2007	WG	SD	NM10	18.5	21.19	2	160
2008	WG	BB	ES01	21.67	10.72	0.38	8.758
2008	WG	BB	NM01	21.67	11.78	2	120
2008	WG	BB	NM02	21.67	13.61	2	120
2008	WG	BB	NM03	21.67	15.44	2	120
2008	WG	BB	NM04	21.67	17.27	2	120
2008	WG	BB	NM05	21.67	19.1	2	120
2008	WG	BB	NM06	21.67	20.92	2	120
2008	WG	BB	NM07	21.67	22.75	2	120
2008	WG	BB	NM08	21.67	24.58	2	120
2008	WG	BE	ES01	23.39	12.34	2.86	65.672
2008	WG	SA	ES01	20.02	10.72	0.22	5.046
2008	WG	SB	ES01	19.01	8.97	5.2	119.233
2008	WG	SB	ES02	19.01	10.72	2.19	50.326
2008	WG	SD	ES01	18.5	8.97	0.45	10.368
2008	WG	SD	ES02	18.5	10.72	0.25	5.78
2008	WG	SD	NM01	18.5	16.59	2	160
2008	WG	SD	NM02	18.5	17.09	2	160
2008	WG	SD	NM03	18.5	17.59	2	160
2008	WG	SD	NM04	18.5	18.09	2	160
2008	WG	SD	NM05	18.5	18.59	2	160
2008	WG	SD	NM06	18.5	19.1	2	160
2008	WG	SD	NM07	18.5	19.6	2	160
2008	WG	SD	NM08	18.5	20.1	2	160
2008	WG	SD	NM09	18.5	20.6	2	160
2008	WG	SD	NM10	18.5	21.1	2	160
2009	WG	BB	ES01	21.67	10.68	0.38	8.758
2009	WG	BB	NM01	21.67	11.74	2	120
2009	WG	BB	NM02	21.67	13.56	2	120
2009	WG	BB	NM03	21.67	15.38	2	120
2009	WG	BB	NM04	21.67	17.2	2	120
2009	WG	BB	NM05	21.67	19.02	2	120
2009	WG	BB	NM06	21.67	20.85	2	120
2009	WG	BB	NM07	21.67	22.66	2	120
2009	WG	BB	NM08	21.67	24.48	2	120
2009	WG	BE	ES01	23.39	12.3	2.86	65.672
2009	WG	SA	ES01	20.02	10.68	0.22	5.046
2009	WG	SB	ES01	19.01	8.94	5.2	119.233
2009	WG	SB	ES02	19.01	10.68	2.19	50.326
2009	WG	SD	ES01	18.5	8.94	0.45	10.368
2009	WG	SD	ES02	18.5	10.68	0.25	5.78
2009	WG	SD	NM01	18.5	16.52	2	160
2009	WG	SD	NM02	18.5	17.02	2	160
2009	WG	SD	NM03	18.5	17.52	2	160
2009	WG	SD	NM04	18.5	18.03	2	160
2009	WG	SD	NM05	18.5	18.52	2	160
2009	WG	SD	NM06	18.5	19.02	2	160
2009	WG	SD	NM07	18.5	19.52	2	160
2009	WG	SD	NM08	18.5	20.02	2	160
2009	WG	SD	NM09	18.5	20.52	2	160
2009	WG	SD	NM10	18.5	21.02	2	160
2010	WG	BB	ES01	21.67	10.63	0.38	8.758
2010	WG	BB	NM01	21.67	11.69	2	120
2010	WG	BB	NM02	21.67	13.51	2	120
2010	WG	BB	NM03	21.67	15.32	2	120
2010	WG	BB	NM04	21.67	17.13	2	120
2010	WG	BB	NM05	21.67	18.95	2	120
2010	WG	BB	NM06	21.67	20.76	2	120
2010	WG	BB	NM07	21.67	22.57	2	120
2010	WG	BB	NM08	21.67	24.38	2	120
2010	WG	BE	ES01	23.39	12.24	2.86	65.672
2010	WG	SA	ES01	20.02	10.63	0.22	5.046
2010	WG	SB	ES01	19.01	8.9	5.2	119.233
2010	WG	SB	ES02	19.01	10.63	2.19	50.326
2010	WG	SD	ES01	18.5	8.9	0.45	10.368
2010	WG	SD	ES02	18.5	10.63	0.25	5.78

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	WG	SD	NM01	18.5	16.45	2	160
2010	WG	SD	NM02	18.5	16.96	2	160
2010	WG	SD	NM03	18.5	17.45	2	160
2010	WG	SD	NM04	18.5	17.95	2	160
2010	WG	SD	NM05	18.5	18.45	2	160
2010	WG	SD	NM06	18.5	18.95	2	160
2010	WG	SD	NM07	18.5	19.44	2	160
2010	WG	SD	NM08	18.5	19.94	2	160
2010	WG	SD	NM09	18.5	20.44	2	160
2010	WG	SD	NM10	18.5	20.94	2	160
2015	WG	BB	ES01	21.67	10.42	0	8.758
2015	WG	BB	NM01	21.67	11.46	2	120
2015	WG	BB	NM02	21.67	13.24	2	120
2015	WG	BB	NM03	21.67	15.02	2	120
2015	WG	BB	NM04	21.67	16.79	2	120
2015	WG	BB	NM05	21.67	18.57	2	120
2015	WG	BB	NM06	21.67	20.34	2	120
2015	WG	BB	NM07	21.67	22.13	2	120
2015	WG	BB	NM08	21.67	23.9	2	120
2015	WG	BE	ES01	23.39	11.99	2.86	65.672
2015	WG	SA	ES01	20.02	10.42	0	5.046
2015	WG	SB	ES01	19.01	8.73	5.2	119.233
2015	WG	SB	ES02	19.01	10.42	0	50.326
2015	WG	SD	ES01	18.5	8.73	0.45	10.368
2015	WG	SD	ES02	18.5	10.42	0	5.78
2015	WG	SD	NM01	18.5	16.13	2	160
2015	WG	SD	NM02	18.5	16.62	2	160
2015	WG	SD	NM03	18.5	17.1	2	160
2015	WG	SD	NM04	18.5	17.59	2	160
2015	WG	SD	NM05	18.5	18.08	2	160
2015	WG	SD	NM06	18.5	18.57	2	160
2015	WG	SD	NM07	18.5	19.06	2	160
2015	WG	SD	NM08	18.5	19.54	2	160
2015	WG	SD	NM09	18.5	20.03	2	160
2015	WG	SD	NM10	18.5	20.52	2	160
2020	WG	BB	ES01	21.67	10.22	0	8.758
2020	WG	BB	NM01	21.67	11.24	2	120
2020	WG	BB	NM02	21.67	12.98	2	120
2020	WG	BB	NM03	21.67	14.71	2	120
2020	WG	BB	NM04	21.67	16.45	2	120
2020	WG	BB	NM05	21.67	18.2	2	120
2020	WG	BB	NM06	21.67	19.94	2	120
2020	WG	BB	NM07	21.67	21.68	2	120
2020	WG	BB	NM08	21.67	23.42	2	120
2020	WG	BE	ES01	23.39	11.76	2.86	65.672
2020	WG	SA	ES01	20.02	10.22	0	5.046
2020	WG	SB	ES01	19.01	8.55	5.2	119.233
2020	WG	SB	ES02	19.01	10.22	0	50.326
2020	WG	SD	ES01	18.5	8.55	0.45	10.368
2020	WG	SD	ES02	18.5	10.22	0	5.78
2020	WG	SD	NM01	18.5	15.81	2	160
2020	WG	SD	NM02	18.5	16.29	2	160
2020	WG	SD	NM03	18.5	16.77	2	160
2020	WG	SD	NM04	18.5	17.25	2	160
2020	WG	SD	NM05	18.5	17.72	2	160
2020	WG	SD	NM06	18.5	18.2	2	160
2020	WG	SD	NM07	18.5	18.68	2	160
2020	WG	SD	NM08	18.5	19.16	2	160
2020	WG	SD	NM09	18.5	19.63	2	160
2020	WG	SD	NM10	18.5	20.11	2	160
2025	WG	BB	ES01	21.67	10.01	0	8.758
2025	WG	BB	NM01	21.67	11.01	2	120
2025	WG	BB	NM02	21.67	12.72	2	120
2025	WG	BB	NM03	21.67	14.42	2	120
2025	WG	BB	NM04	21.67	16.13	2	120
2025	WG	BB	NM05	21.67	17.84	2	120
2025	WG	BB	NM06	21.67	19.54	2	120
2025	WG	BB	NM07	21.67	21.26	2	120
2025	WG	BB	NM08	21.67	22.96	2	120
2025	WG	BE	ES01	23.39	11.53	2.86	65.672
2025	WG	SA	ES01	20.02	10.01	0	5.046
2025	WG	SB	ES01	19.01	8.38	5.2	119.233
2025	WG	SB	ES02	19.01	10.01	0	50.326
2025	WG	SD	ES01	18.5	8.38	0.45	10.368
2025	WG	SD	ES02	18.5	10.01	0	5.78
2025	WG	SD	NM01	18.5	15.5	2	160
2025	WG	SD	NM02	18.5	15.96	2	160

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	WG	SD	NM03	18.5	16.43	2	160
2025	WG	SD	NM04	18.5	16.9	2	160
2025	WG	SD	NM05	18.5	17.37	2	160
2025	WG	SD	NM06	18.5	17.84	2	160
2025	WG	SD	NM07	18.5	18.3	2	160
2025	WG	SD	NM08	18.5	18.77	2	160
2025	WG	SD	NM09	18.5	19.25	2	160
2025	WG	SD	NM10	18.5	19.72	2	160
2035	WG	BB	ES01	21.67	9.82	0	8.758
2035	WG	BB	NM01	21.67	10.79	2	120
2035	WG	BB	NM02	21.67	12.46	2	120
2035	WG	BB	NM03	21.67	14.14	2	120
2035	WG	BB	NM04	21.67	15.81	2	120
2035	WG	BB	NM05	21.67	17.49	2	120
2035	WG	BB	NM06	21.67	19.16	2	120
2035	WG	BB	NM07	21.67	20.83	2	120
2035	WG	BB	NM08	21.67	22.51	2	120
2035	WG	BE	ES01	23.39	11.3	2.86	65.672
2035	WG	SA	ES01	20.02	9.82	0	5.046
2035	WG	SB	ES01	19.01	8.22	5.2	119.233
2035	WG	SB	ES02	19.01	9.82	0	50.326
2035	WG	SD	ES01	18.5	8.22	0.45	10.368
2035	WG	SD	ES02	18.5	9.82	0	5.78
2035	WG	SD	NM01	18.5	15.18	2	160
2035	WG	SD	NM02	18.5	15.65	2	160
2035	WG	SD	NM03	18.5	16.11	2	160
2035	WG	SD	NM04	18.5	16.57	2	160
2035	WG	SD	NM05	18.5	17.02	2	160
2035	WG	SD	NM06	18.5	17.49	2	160
2035	WG	SD	NM07	18.5	17.95	2	160
2035	WG	SD	NM08	18.5	18.4	2	160
2035	WG	SD	NM09	18.5	18.86	2	160
2035	WG	SD	NM10	18.5	19.33	2	160
2007	WH	SA	ES01	17.43	4.33	30.82	520.952
2007	WH	SA	ES02	17.43	4.43	0.11	2.193
2007	WH	SA	ES03	17.43	5.45	74.63	1511.922
2007	WH	SA	NM01	17.43	5.7	20	1600
2007	WH	SA	ES04	17.43	5.89	23.88	332.693
2007	WH	SA	NM02	17.43	6.3	20	1600
2007	WH	SA	NM03	17.43	6.9	20	1600
2007	WH	SA	NM04	17.43	7.51	20	1600
2007	WH	SA	NM05	17.43	8.12	20	1600
2007	WH	SA	NM06	17.43	8.73	20	1600
2007	WH	SA	NM07	17.43	9.34	20	1600
2007	WH	SB	ES01	17.43	4.34	34.3	579.824
2007	WH	SB	ES02	17.43	4.43	31.62	605.349
2007	WH	SB	ES03	17.43	5.45	0.16	3.33
2007	WH	SB	NM01	17.43	5.7	20	1600
2007	WH	SB	NM02	17.43	6.3	20	1600
2007	WH	SB	NM03	17.43	6.9	20	1600
2007	WH	SB	NM04	17.43	7.51	20	1600
2007	WH	SB	NM05	17.43	8.12	20	1600
2007	WH	SB	NM06	17.43	8.73	20	1600
2007	WH	SB	NM07	17.43	9.34	20	1600
2008	WH	SA	ES01	17.43	4.3	30.82	520.952
2008	WH	SA	ES02	17.43	4.4	0.11	2.193
2008	WH	SA	ES03	17.43	5.43	74.63	1511.922
2008	WH	SA	NM01	17.43	5.67	20	1600
2008	WH	SA	ES04	17.43	5.86	23.88	332.693
2008	WH	SA	NM02	17.43	6.28	20	1600
2008	WH	SA	NM03	17.43	6.88	20	1600
2008	WH	SA	NM04	17.43	7.48	20	1600
2008	WH	SA	NM05	17.43	8.08	20	1600
2008	WH	SA	NM06	17.43	8.68	20	1600
2008	WH	SA	NM07	17.43	9.28	20	1600
2008	WH	SB	ES01	17.43	4.31	34.3	579.824
2008	WH	SB	ES02	17.43	4.41	31.62	605.349
2008	WH	SB	ES03	17.43	5.43	0.16	3.33
2008	WH	SB	NM01	17.43	5.67	20	1600
2008	WH	SB	NM02	17.43	6.28	20	1600
2008	WH	SB	NM03	17.43	6.88	20	1600
2008	WH	SB	NM04	17.43	7.48	20	1600
2008	WH	SB	NM05	17.43	8.08	20	1600
2008	WH	SB	NM06	17.43	8.68	20	1600
2008	WH	SB	NM07	17.43	9.28	20	1600
2009	WH	SA	ES01	17.43	4.29	30.82	520.952
2009	WH	SA	ES02	17.43	4.38	0.11	2.193

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	WH	SA	ES03	17.43	5.41	74.63	1511.922
2009	WH	SA	NM01	17.43	5.65	20	1600
2009	WH	SA	ES04	17.43	5.84	23.88	332.693
2009	WH	SA	NM02	17.43	6.25	20	1600
2009	WH	SA	NM03	17.43	6.86	20	1600
2009	WH	SA	NM04	17.43	7.45	20	1600
2009	WH	SA	NM05	17.43	8.05	20	1600
2009	WH	SA	NM06	17.43	8.65	20	1600
2009	WH	SA	NM07	17.43	9.25	20	1600
2009	WH	SB	ES01	17.43	4.29	34.3	579.824
2009	WH	SB	ES02	17.43	4.39	31.62	605.349
2009	WH	SB	ES03	17.43	5.41	0.16	3.33
2009	WH	SB	NM01	17.43	5.65	20	1600
2009	WH	SB	NM02	17.43	6.25	20	1600
2009	WH	SB	NM03	17.43	6.86	20	1600
2009	WH	SB	NM04	17.43	7.45	20	1600
2009	WH	SB	NM05	17.43	8.05	20	1600
2009	WH	SB	NM06	17.43	8.65	20	1600
2009	WH	SB	NM07	17.43	9.25	20	1600
2010	WH	SA	ES01	17.43	4.27	30.82	520.952
2010	WH	SA	ES02	17.43	4.37	0.11	2.193
2010	WH	SA	ES03	17.43	5.38	74.63	1511.922
2010	WH	SA	NM01	17.43	5.63	20	1600
2010	WH	SA	ES04	17.43	5.82	23.88	332.693
2010	WH	SA	NM02	17.43	6.22	20	1600
2010	WH	SA	NM03	17.43	6.82	20	1600
2010	WH	SA	NM04	17.43	7.42	20	1600
2010	WH	SA	NM05	17.43	8.02	20	1600
2010	WH	SA	NM06	17.43	8.62	20	1600
2010	WH	SA	NM07	17.43	9.22	20	1600
2010	WH	SB	ES01	17.43	4.28	34.3	579.824
2010	WH	SB	ES02	17.43	4.38	31.62	605.349
2010	WH	SB	ES03	17.43	5.38	0.16	3.33
2010	WH	SB	NM01	17.43	5.63	20	1600
2010	WH	SB	NM02	17.43	6.22	20	1600
2010	WH	SB	NM03	17.43	6.82	20	1600
2010	WH	SB	NM04	17.43	7.42	20	1600
2010	WH	SB	NM05	17.43	8.02	20	1600
2010	WH	SB	NM06	17.43	8.62	20	1600
2010	WH	SB	NM07	17.43	9.22	20	1600
2015	WH	SA	ES01	17.43	4.19	30.82	520.952
2015	WH	SA	ES02	17.43	4.28	0.11	2.193
2015	WH	SA	ES03	17.43	5.28	74.63	1511.922
2015	WH	SA	NM01	17.43	5.52	20	1600
2015	WH	SA	ES04	17.43	5.7	23.88	332.693
2015	WH	SA	NM02	17.43	6.1	20	1600
2015	WH	SA	NM03	17.43	6.69	20	1600
2015	WH	SA	NM04	17.43	7.27	20	1600
2015	WH	SA	NM05	17.43	7.86	20	1600
2015	WH	SA	NM06	17.43	8.45	20	1600
2015	WH	SA	NM07	17.43	9.04	20	1600
2015	WH	SB	ES01	17.43	4.19	34.3	579.824
2015	WH	SB	ES02	17.43	4.29	31.62	605.349
2015	WH	SB	ES03	17.43	5.28	0.16	3.33
2015	WH	SB	NM01	17.43	5.52	20	1600
2015	WH	SB	NM02	17.43	6.1	20	1600
2015	WH	SB	NM03	17.43	6.69	20	1600
2015	WH	SB	NM04	17.43	7.27	20	1600
2015	WH	SB	NM05	17.43	7.86	20	1600
2015	WH	SB	NM06	17.43	8.45	20	1600
2015	WH	SB	NM07	17.43	9.04	20	1600
2020	WH	SA	ES01	17.43	4.1	30.82	520.952
2020	WH	SA	ES02	17.43	4.19	0.11	2.193
2020	WH	SA	ES03	17.43	5.17	74.63	1511.922
2020	WH	SA	NM01	17.43	5.41	20	1600
2020	WH	SA	ES04	17.43	5.58	23.88	332.693
2020	WH	SA	NM02	17.43	5.99	20	1600
2020	WH	SA	NM03	17.43	6.55	20	1600
2020	WH	SA	NM04	17.43	7.13	20	1600
2020	WH	SA	NM05	17.43	7.7	20	1600
2020	WH	SA	NM06	17.43	8.27	20	1600
2020	WH	SA	NM07	17.43	8.84	20	1600
2020	WH	SB	ES01	17.43	4.11	34.3	579.824
2020	WH	SB	ES02	17.43	4.2	31.62	605.349
2020	WH	SB	ES03	17.43	5.17	0.16	3.33
2020	WH	SB	NM01	17.43	5.41	20	1600
2020	WH	SB	NM02	17.43	5.99	20	1600

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	WH	SB	NM03	17.43	6.55	20	1600
2020	WH	SB	NM04	17.43	7.13	20	1600
2020	WH	SB	NM05	17.43	7.7	20	1600
2020	WH	SB	NM06	17.43	8.27	20	1600
2020	WH	SB	NM07	17.43	8.84	20	1600
2025	WH	SA	ES01	17.43	4.02	30.82	520.952
2025	WH	SA	ES02	17.43	4.11	0.11	2.193
2025	WH	SA	ES03	17.43	5.07	74.63	1511.922
2025	WH	SA	NM01	17.43	5.3	20	1600
2025	WH	SA	ES04	17.43	5.47	23.88	332.693
2025	WH	SA	NM02	17.43	5.86	20	1600
2025	WH	SA	NM03	17.43	6.42	20	1600
2025	WH	SA	NM04	17.43	6.99	20	1600
2025	WH	SA	NM05	17.43	7.55	20	1600
2025	WH	SA	NM06	17.43	8.11	20	1600
2025	WH	SA	NM07	17.43	8.67	20	1600
2025	WH	SB	ES01	17.43	4.04	34.3	579.824
2025	WH	SB	ES02	17.43	4.12	31.62	605.349
2025	WH	SB	ES03	17.43	5.07	0.16	3.33
2025	WH	SB	NM01	17.43	5.3	20	1600
2025	WH	SB	NM02	17.43	5.86	20	1600
2025	WH	SB	NM03	17.43	6.42	20	1600
2025	WH	SB	NM04	17.43	6.99	20	1600
2025	WH	SB	NM05	17.43	7.55	20	1600
2025	WH	SB	NM06	17.43	8.11	20	1600
2025	WH	SB	NM07	17.43	8.67	20	1600
2035	WH	SA	ES01	17.43	3.95	30.82	520.952
2035	WH	SA	ES02	17.43	4.04	0.11	2.193
2035	WH	SA	ES03	17.43	4.97	74.63	1511.922
2035	WH	SA	NM01	17.43	5.19	20	1600
2035	WH	SA	ES04	17.43	5.36	23.88	332.693
2035	WH	SA	NM02	17.43	5.74	20	1600
2035	WH	SA	NM03	17.43	6.3	20	1600
2035	WH	SA	NM04	17.43	6.84	20	1600
2035	WH	SA	NM05	17.43	7.4	20	1600
2035	WH	SA	NM06	17.43	7.96	20	1600
2035	WH	SA	NM07	17.43	8.52	20	1600
2035	WH	SB	ES01	17.43	3.95	34.3	579.824
2035	WH	SB	ES02	17.43	4.04	31.62	605.349
2035	WH	SB	ES03	17.43	4.97	0.16	3.33
2035	WH	SB	NM01	17.43	5.19	20	1600
2035	WH	SB	NM02	17.43	5.74	20	1600
2035	WH	SB	NM03	17.43	6.3	20	1600
2035	WH	SB	NM04	17.43	6.84	20	1600
2035	WH	SB	NM05	17.43	7.4	20	1600
2035	WH	SB	NM06	17.43	7.96	20	1600
2035	WH	SB	NM07	17.43	8.52	20	1600
2007	WL	SA	ES01	17.43	3.66	0.16	4.807
2007	WL	SA	ES02	17.43	4.17	2.04	282.156
2007	WL	SA	ES03	17.43	4.43	6.65	139.235
2007	WL	SA	ES04	17.43	4.54	26.04	630.076
2007	WL	SA	ES05	17.43	4.8	6.94	74.588
2007	WL	SA	ES06	17.43	4.8	5.99	149.142
2007	WL	SA	ES07	17.43	5.02	0.51	10.113
2007	WL	SA	ES08	17.43	5.51	17.39	477.092
2007	WL	SB	ES01	17.15	2.99	8.87	478.676
2007	WL	SB	ES02	17.15	3.66	18.17	536.379
2007	WL	SB	ES03	17.15	4.17	1.45	200.405
2007	WL	SB	ES04	17.15	4.43	18.26	382.433
2007	WL	SB	ES05	17.15	4.54	0.77	18.578
2007	WL	SB	ES06	17.15	4.82	20.27	500.169
2007	WL	SB	ES07	17.15	4.82	31.05	333.866
2007	WL	SB	ES08	17.15	5.03	10.75	214.877
2007	WL	SB	ES09	17.15	5.51	0.04	1.022
2007	WL	SB	NM01	17.15	7.01	15	1500
2007	WL	SB	NM02	17.15	7.47	15	1500
2007	WL	SB	NM03	17.15	7.93	15	1500
2007	WL	SB	NM04	17.15	8.38	15	1500
2007	WL	SB	NM05	17.15	8.83	15	1500
2007	WL	SB	NM06	17.15	9.29	15	1500
2007	WL	SB	NM07	17.15	9.74	15	1500
2007	WL	SB	NM08	17.15	10.19	15	1500
2007	WL	SB	NM09	17.15	10.64	15	1500
2007	WL	SB	NM10	17.15	11.09	15	1500
2008	WL	SA	ES01	17.43	3.63	0.16	4.807
2008	WL	SA	ES02	17.43	4.16	2.04	282.156
2008	WL	SA	ES03	17.43	4.4	6.65	139.235

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	WL	SA	ES04	17.43	4.51	26.04	630.076
2008	WL	SA	ES05	17.43	4.79	6.94	74.588
2008	WL	SA	ES06	17.43	4.79	5.99	149.142
2008	WL	SA	ES07	17.43	4.99	0.51	10.113
2008	WL	SA	ES08	17.43	5.48	17.39	477.092
2008	WL	SB	ES01	17.15	2.98	10.1	515.096
2008	WL	SB	ES02	17.15	3.63	16.94	499.959
2008	WL	SB	ES03	17.15	4.16	1.45	200.405
2008	WL	SB	ES04	17.15	4.41	18.26	382.433
2008	WL	SB	ES05	17.15	4.51	0.77	18.578
2008	WL	SB	ES06	17.15	4.79	20.27	500.169
2008	WL	SB	ES07	17.15	4.8	31.05	333.866
2008	WL	SB	ES08	17.15	5.01	10.75	214.877
2008	WL	SB	ES09	17.15	5.48	0.04	1.022
2008	WL	SB	NM01	17.15	6.99	15	1500
2008	WL	SB	NM02	17.15	7.44	15	1500
2008	WL	SB	NM03	17.15	7.89	15	1500
2008	WL	SB	NM04	17.15	8.35	15	1500
2008	WL	SB	NM05	17.15	8.8	15	1500
2008	WL	SB	NM06	17.15	9.25	15	1500
2008	WL	SB	NM07	17.15	9.7	15	1500
2008	WL	SB	NM08	17.15	10.16	15	1500
2008	WL	SB	NM09	17.15	10.62	15	1500
2008	WL	SB	NM10	17.15	11.08	15	1500
2009	WL	SA	ES01	17.43	3.62	0.16	4.807
2009	WL	SA	ES02	17.43	4.14	2.04	282.156
2009	WL	SA	ES03	17.43	4.38	6.65	139.235
2009	WL	SA	ES04	17.43	4.5	26.04	630.076
2009	WL	SA	ES05	17.43	4.77	6.94	74.588
2009	WL	SA	ES06	17.43	4.77	5.99	149.142
2009	WL	SA	ES07	17.43	4.97	0.51	10.113
2009	WL	SA	ES08	17.43	5.46	17.39	477.092
2009	WL	SB	ES01	17.15	2.97	8.87	478.676
2009	WL	SB	ES02	17.15	3.62	18.17	536.379
2009	WL	SB	ES03	17.15	4.14	1.45	200.405
2009	WL	SB	ES04	17.15	4.39	18.26	382.433
2009	WL	SB	ES05	17.15	4.5	0.77	18.578
2009	WL	SB	ES06	17.15	4.77	20.27	500.169
2009	WL	SB	ES07	17.15	4.78	31.05	333.866
2009	WL	SB	ES08	17.15	4.98	10.75	214.877
2009	WL	SB	ES09	17.15	5.46	0.04	1.022
2009	WL	SB	NM01	17.15	6.96	15	1500
2009	WL	SB	NM02	17.15	7.41	15	1500
2009	WL	SB	NM03	17.15	7.86	15	1500
2009	WL	SB	NM04	17.15	8.32	15	1500
2009	WL	SB	NM05	17.15	8.76	15	1500
2009	WL	SB	NM06	17.15	9.21	15	1500
2009	WL	SB	NM07	17.15	9.66	15	1500
2009	WL	SB	NM08	17.15	10.11	15	1500
2009	WL	SB	NM09	17.15	10.56	15	1500
2009	WL	SB	NM10	17.15	11.01	15	1500
2010	WL	SA	ES01	17.43	3.61	0.16	4.807
2010	WL	SA	ES02	17.43	4.12	2.04	282.156
2010	WL	SA	ES03	17.43	4.37	6.65	139.235
2010	WL	SA	ES04	17.43	4.48	26.04	630.076
2010	WL	SA	ES05	17.43	4.75	6.94	74.588
2010	WL	SA	ES06	17.43	4.75	5.99	149.142
2010	WL	SA	ES07	17.43	4.96	0.51	10.113
2010	WL	SA	ES08	17.43	5.44	17.39	477.092
2010	WL	SB	ES01	17.15	2.95	8.87	478.676
2010	WL	SB	ES02	17.15	3.61	18.17	536.379
2010	WL	SB	ES03	17.15	4.12	1.45	200.405
2010	WL	SB	ES04	17.15	4.37	18.26	382.433
2010	WL	SB	ES05	17.15	4.48	0.77	18.578
2010	WL	SB	ES06	17.15	4.76	20.27	500.169
2010	WL	SB	ES07	17.15	4.76	31.05	333.866
2010	WL	SB	ES08	17.15	4.96	10.75	214.877
2010	WL	SB	ES09	17.15	5.44	0.04	1.022
2010	WL	SB	NM01	17.15	6.93	15	1500
2010	WL	SB	NM02	17.15	7.38	15	1500
2010	WL	SB	NM03	17.15	7.83	15	1500
2010	WL	SB	NM04	17.15	8.28	15	1500
2010	WL	SB	NM05	17.15	8.73	15	1500
2010	WL	SB	NM06	17.15	9.17	15	1500
2010	WL	SB	NM07	17.15	9.62	15	1500
2010	WL	SB	NM08	17.15	10.07	15	1500
2010	WL	SB	NM09	17.15	10.52	15	1500

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	WL	SB	NM10	17.15	10.97	15	1500
2015	WL	SA	ES01	17.43	3.53	0.16	4.807
2015	WL	SA	ES02	17.43	4.04	2.04	282.156
2015	WL	SA	ES03	17.43	4.28	6.65	139.235
2015	WL	SA	ES04	17.43	4.39	26.04	630.076
2015	WL	SA	ES05	17.43	4.66	6.94	74.588
2015	WL	SA	ES06	17.43	4.66	5.99	149.142
2015	WL	SA	ES07	17.43	4.86	0.51	10.113
2015	WL	SA	ES08	17.43	5.33	17.39	477.092
2015	WL	SB	ES01	17.15	2.9	10.1	515.096
2015	WL	SB	ES02	17.15	3.53	16.94	499.959
2015	WL	SB	ES03	17.15	4.04	1.48	200.927
2015	WL	SB	ES04	17.15	4.29	18.26	382.433
2015	WL	SB	ES05	17.15	4.39	0.95	22.164
2015	WL	SB	ES06	17.15	4.66	20.27	500.169
2015	WL	SB	ES07	17.15	4.67	31.05	333.866
2015	WL	SB	ES08	17.15	4.86	10.54	210.769
2015	WL	SB	ES09	17.15	5.33	0.04	1.022
2015	WL	SB	NM01	17.15	6.8	15	1500
2015	WL	SB	NM02	17.15	7.23	15	1500
2015	WL	SB	NM03	17.15	7.67	15	1500
2015	WL	SB	NM04	17.15	8.12	15	1500
2015	WL	SB	NM05	17.15	8.55	15	1500
2015	WL	SB	NM06	17.15	9	15	1500
2015	WL	SB	NM07	17.15	9.43	15	1500
2015	WL	SB	NM08	17.15	9.87	15	1500
2015	WL	SB	NM09	17.15	10.31	15	1500
2015	WL	SB	NM10	17.15	10.75	15	1500
2020	WL	SA	ES01	17.43	3.47	0.16	4.807
2020	WL	SA	ES02	17.43	3.96	2.04	282.156
2020	WL	SA	ES03	17.43	4.19	6.65	139.235
2020	WL	SA	ES04	17.43	4.3	26.04	630.076
2020	WL	SA	ES05	17.43	4.57	6.94	74.588
2020	WL	SA	ES06	17.43	4.57	5.99	149.142
2020	WL	SA	ES07	17.43	4.76	0.51	10.113
2020	WL	SA	ES08	17.43	5.23	17.39	477.092
2020	WL	SB	ES01	17.15	2.83	8.87	478.676
2020	WL	SB	ES02	17.15	3.47	18.17	536.379
2020	WL	SB	ES03	17.15	3.96	1.45	200.405
2020	WL	SB	ES04	17.15	4.2	18.26	382.433
2020	WL	SB	ES05	17.15	4.3	0.77	18.578
2020	WL	SB	ES06	17.15	4.57	20.27	500.169
2020	WL	SB	ES07	17.15	4.57	31.05	333.866
2020	WL	SB	ES08	17.15	4.77	10.75	214.877
2020	WL	SB	ES09	17.15	5.23	0.04	1.022
2020	WL	SB	NM01	17.15	6.66	15	1500
2020	WL	SB	NM02	17.15	7.09	15	1500
2020	WL	SB	NM03	17.15	7.52	15	1500
2020	WL	SB	NM04	17.15	7.95	15	1500
2020	WL	SB	NM05	17.15	8.38	15	1500
2020	WL	SB	NM06	17.15	8.82	15	1500
2020	WL	SB	NM07	17.15	9.24	15	1500
2020	WL	SB	NM08	17.15	9.68	15	1500
2020	WL	SB	NM09	17.15	10.12	15	1500
2020	WL	SB	NM10	17.15	10.56	15	1500
2025	WL	SA	ES01	17.43	3.4	0.16	4.807
2025	WL	SA	ES02	17.43	3.88	2.04	282.156
2025	WL	SA	ES03	17.43	4.11	6.65	139.235
2025	WL	SA	ES04	17.43	4.22	26.04	630.076
2025	WL	SA	ES05	17.43	4.47	6.94	74.588
2025	WL	SA	ES06	17.43	4.47	5.99	149.142
2025	WL	SA	ES07	17.43	4.67	0.51	10.113
2025	WL	SA	ES08	17.43	5.12	17.39	477.092
2025	WL	SB	ES01	17.15	2.78	8.87	478.676
2025	WL	SB	ES02	17.15	3.4	18.17	536.379
2025	WL	SB	ES03	17.15	3.88	1.45	200.405
2025	WL	SB	ES04	17.15	4.12	18.26	382.433
2025	WL	SB	ES05	17.15	4.22	0.77	18.578
2025	WL	SB	ES06	17.15	4.48	20.27	500.169
2025	WL	SB	ES07	17.15	4.48	31.05	333.866
2025	WL	SB	ES08	17.15	4.67	10.75	214.877
2025	WL	SB	ES09	17.15	5.12	0.04	1.022
2025	WL	SB	NM01	17.15	6.53	15	1500
2025	WL	SB	NM02	17.15	6.94	15	1500
2025	WL	SB	NM03	17.15	7.37	15	1500
2025	WL	SB	NM04	17.15	7.79	15	1500
2025	WL	SB	NM05	17.15	8.22	15	1500

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	WL	SB	NM06	17.15	8.64	15	1500
2025	WL	SB	NM07	17.15	9.06	15	1500
2025	WL	SB	NM08	17.15	9.49	15	1500
2025	WL	SB	NM09	17.15	9.92	15	1500
2025	WL	SB	NM10	17.15	10.35	15	1500
2035	WL	SA	ES01	17.43	3.33	0.16	4.807
2035	WL	SA	ES02	17.43	3.8	2.04	282.156
2035	WL	SA	ES03	17.43	4.04	6.65	139.235
2035	WL	SA	ES04	17.43	4.14	26.04	630.076
2035	WL	SA	ES05	17.43	4.38	6.94	74.588
2035	WL	SA	ES06	17.43	4.38	5.99	149.142
2035	WL	SA	ES07	17.43	4.57	0.51	10.113
2035	WL	SA	ES08	17.43	5.02	17.39	477.092
2035	WL	SB	ES01	17.15	2.72	8.87	478.676
2035	WL	SB	ES02	17.15	3.33	18.17	536.379
2035	WL	SB	ES03	17.15	3.8	1.45	200.405
2035	WL	SB	ES04	17.15	4.04	18.26	382.433
2035	WL	SB	ES05	17.15	4.14	0.77	18.578
2035	WL	SB	ES06	17.15	4.39	20.27	500.169
2035	WL	SB	ES07	17.15	4.39	31.05	333.866
2035	WL	SB	ES08	17.15	4.58	10.75	214.877
2035	WL	SB	ES09	17.15	5.02	0.04	1.022
2035	WL	SB	NM01	17.15	6.4	15	1500
2035	WL	SB	NM02	17.15	6.81	15	1500
2035	WL	SB	NM03	17.15	7.22	15	1500
2035	WL	SB	NM04	17.15	7.64	15	1500
2035	WL	SB	NM05	17.15	8.05	15	1500
2035	WL	SB	NM06	17.15	8.47	15	1500
2035	WL	SB	NM07	17.15	8.88	15	1500
2035	WL	SB	NM08	17.15	9.3	15	1500
2035	WL	SB	NM09	17.15	9.72	15	1500
2035	WL	SB	NM10	17.15	10.14	15	1500
2007	WN	BB	EU01	24.78	25.68	0.093	0.092
2007	WN	BB	ES02	24.78	27.58	0.003	0.56
2007	WN	BB	NM01	24.78	29.88	0.25	14
2007	WN	BB	EU03	24.78	31.1	0.111	0.11
2007	WN	BB	NM02	24.78	38.94	0.25	14
2007	WN	BB	NM03	24.78	48.01	0.25	14
2007	WN	BB	NM04	24.78	57.09	0.25	14
2007	WN	BB	NM05	24.78	66.16	0.25	14
2007	WN	BD	EU01	25.01	26.88	0.171	1.389
2007	WN	BD	ES02	25.01	27.58	1.282	6.173
2007	WN	BD	NM01	25.01	29.31	0.38	21
2007	WN	BD	EU03	25.01	31.1	1.556	12.658
2007	WN	BD	NM02	25.01	37.52	0.38	21
2007	WN	BD	NM03	25.01	45.74	0.38	21
2007	WN	BD	NM04	25.01	53.95	0.38	21
2007	WN	BD	NM05	25.01	62.17	0.38	21
2007	WN	BE	EU01	25.67	25.68	0.275	4.943
2007	WN	BE	EU02	25.67	26.88	4.363	78.301
2007	WN	BE	ES03	25.67	27.58	1.68	19.867
2007	WN	BE	EU04	25.67	27.98	0.246	4.422
2007	WN	BE	NM01	25.67	28.71	2	280
2007	WN	BE	NM02	25.67	29.71	2	280
2007	WN	BE	EU05	25.67	31.1	3.363	60.352
2007	WN	BE	NM03	25.67	31.71	2	280
2007	WN	BE	NM04	25.67	61.43	2	280
2007	WN	BG	EU01	26.03	24.86	0.057	1.266
2007	WN	BG	EU02	26.03	25.68	2.759	61.36
2007	WN	BG	EU03	26.03	25.86	2.956	65.735
2007	WN	BG	EU04	26.03	26.88	0.927	20.607
2007	WN	BG	NM01	26.03	27.47	5	700
2007	WN	BG	ES05	26.03	27.58	0.253	17.529
2007	WN	BG	EU06	26.03	27.98	2.485	55.259
2007	WN	BG	NM02	26.03	28.47	5	700
2007	WN	BG	EU07	26.03	29.05	1.89	42.02
2007	WN	BG	NM03	26.03	29.47	5	700
2007	WN	BG	EU08	26.03	31.1	0.699	15.541
2007	WN	BG	NM04	26.03	67.4	5	700
2007	WN	BH	NM01	25.15	24.64	5	700
2007	WN	BH	EU01	25.15	24.86	9.511	217.53
2007	WN	BH	NM02	25.15	25.39	5	700
2007	WN	BH	EU02	25.15	25.68	0.233	5.323
2007	WN	BH	EU03	25.15	25.86	4.111	94.038
2007	WN	BH	NM03	25.15	26.14	5	700
2007	WN	BH	ES04	25.15	27.58	0.35	16.674
2007	WN	BH	EU05	25.15	29.05	0.062	1.419

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	WN	BH	EU06	25.15	31.1	0.853	19.517
2007	WN	BH	NM04	25.15	60.46	5	700
2008	WN	BB	EU01	24.78	25.57	0.093	0.092
2008	WN	BB	ES02	24.78	27.47	0.003	0.56
2008	WN	BB	NM01	24.78	29.75	0.25	14
2008	WN	BB	EU03	24.78	30.97	0.111	0.11
2008	WN	BB	NM02	24.78	38.79	0.25	14
2008	WN	BB	NM03	24.78	47.82	0.25	14
2008	WN	BB	NM04	24.78	56.86	0.25	14
2008	WN	BB	NM05	24.78	65.89	0.25	14
2008	WN	BD	EU01	25.01	26.77	0.171	1.389
2008	WN	BD	ES02	25.01	27.47	1.282	6.173
2008	WN	BD	NM01	25.01	29.18	0.38	21
2008	WN	BD	EU03	25.01	30.97	1.556	12.658
2008	WN	BD	NM02	25.01	37.38	0.38	21
2008	WN	BD	NM03	25.01	45.56	0.38	21
2008	WN	BD	NM04	25.01	53.74	0.38	21
2008	WN	BD	NM05	25.01	61.92	0.38	21
2008	WN	BE	EU01	25.67	25.57	0.275	4.943
2008	WN	BE	EU02	25.67	26.77	4.363	78.301
2008	WN	BE	ES03	25.67	27.47	1.68	19.867
2008	WN	BE	EU04	25.67	27.87	0.246	4.422
2008	WN	BE	NM01	25.67	28.6	2	280
2008	WN	BE	NM02	25.67	29.59	2	280
2008	WN	BE	EU05	25.67	30.97	3.363	60.352
2008	WN	BE	NM03	25.67	31.58	2	280
2008	WN	BE	NM04	25.67	61.18	2	280
2008	WN	BG	EU01	26.03	24.76	0.057	1.266
2008	WN	BG	EU02	26.03	25.57	2.759	61.36
2008	WN	BG	EU03	26.03	25.76	2.956	65.735
2008	WN	BG	EU04	26.03	26.77	0.927	20.607
2008	WN	BG	NM01	26.03	27.36	5	700
2008	WN	BG	ES05	26.03	27.47	0.253	17.529
2008	WN	BG	EU06	26.03	27.87	2.485	55.259
2008	WN	BG	NM02	26.03	28.36	5	700
2008	WN	BG	EU07	26.03	28.94	1.89	42.02
2008	WN	BG	NM03	26.03	29.35	5	700
2008	WN	BG	EU08	26.03	30.97	0.699	15.541
2008	WN	BG	NM04	26.03	67.13	5	700
2008	WN	BH	NM01	25.15	24.54	5	700
2008	WN	BH	EU01	25.15	24.76	9.511	217.53
2008	WN	BH	NM02	25.15	25.29	5	700
2008	WN	BH	EU02	25.15	25.57	0.233	5.323
2008	WN	BH	EU03	25.15	25.76	4.111	94.038
2008	WN	BH	NM03	25.15	26.04	5	700
2008	WN	BH	ES04	25.15	27.47	0.35	16.674
2008	WN	BH	EU05	25.15	28.94	0.062	1.419
2008	WN	BH	EU06	25.15	30.97	0.853	19.517
2008	WN	BH	NM04	25.15	60.22	5	700
2009	WN	BB	EU01	24.78	25.47	0.093	0.092
2009	WN	BB	ES02	24.78	27.36	0.003	0.56
2009	WN	BB	NM01	24.78	29.63	0.25	14
2009	WN	BB	EU03	24.78	30.85	0.111	0.11
2009	WN	BB	NM02	24.78	38.64	0.25	14
2009	WN	BB	NM03	24.78	47.63	0.25	14
2009	WN	BB	NM04	24.78	56.63	0.25	14
2009	WN	BB	NM05	24.78	65.64	0.25	14
2009	WN	BD	EU01	25.01	26.65	0.171	1.389
2009	WN	BD	ES02	25.01	27.36	1.282	6.173
2009	WN	BD	NM01	25.01	29.07	0.38	21
2009	WN	BD	EU03	25.01	30.85	1.556	12.658
2009	WN	BD	NM02	25.01	37.22	0.38	21
2009	WN	BD	NM03	25.01	45.37	0.38	21
2009	WN	BD	NM04	25.01	53.52	0.38	21
2009	WN	BD	NM05	25.01	61.68	0.38	21
2009	WN	BE	EU01	25.67	25.47	0.275	4.943
2009	WN	BE	EU02	25.67	26.65	4.363	78.301
2009	WN	BE	ES03	25.67	27.36	1.68	19.867
2009	WN	BE	EU04	25.67	27.76	0.246	4.422
2009	WN	BE	NM01	25.67	28.48	2	280
2009	WN	BE	NM02	25.67	29.47	2	280
2009	WN	BE	EU05	25.67	30.85	3.363	60.352
2009	WN	BE	NM03	25.67	31.46	2	280
2009	WN	BE	NM04	25.67	60.94	2	280
2009	WN	BG	EU01	26.03	24.66	0.057	1.266
2009	WN	BG	EU02	26.03	25.47	2.759	61.36
2009	WN	BG	EU03	26.03	25.66	2.956	65.735

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	WN	BG	EU04	26.03	26.65	0.927	20.607
2009	WN	BG	NM01	26.03	27.25	5	700
2009	WN	BG	ES05	26.03	27.36	0.253	17.529
2009	WN	BG	EU06	26.03	27.76	2.485	55.259
2009	WN	BG	NM02	26.03	28.24	5	700
2009	WN	BG	EU07	26.03	28.82	1.89	42.02
2009	WN	BG	NM03	26.03	29.23	5	700
2009	WN	BG	EU08	26.03	30.85	0.699	15.541
2009	WN	BG	NM04	26.03	66.86	5	700
2009	WN	BH	NM01	25.15	24.44	5	700
2009	WN	BH	EU01	25.15	24.66	9.511	217.53
2009	WN	BH	NM02	25.15	25.19	5	700
2009	WN	BH	EU02	25.15	25.47	0.233	5.323
2009	WN	BH	EU03	25.15	25.66	4.111	94.038
2009	WN	BH	NM03	25.15	25.93	5	700
2009	WN	BH	ES04	25.15	27.36	0.35	16.674
2009	WN	BH	EU05	25.15	28.82	0.062	1.419
2009	WN	BH	EU06	25.15	30.85	0.853	19.517
2009	WN	BH	NM04	25.15	59.98	5	700
2010	WN	BB	EU01	24.78	25.37	0.093	0.092
2010	WN	BB	ES02	24.78	27.24	0.003	0.56
2010	WN	BB	NM01	24.78	29.52	0.25	14
2010	WN	BB	EU03	24.78	30.72	0.111	0.11
2010	WN	BB	NM02	24.78	38.48	0.25	14
2010	WN	BB	NM03	24.78	47.44	0.25	14
2010	WN	BB	NM04	24.78	56.41	0.25	14
2010	WN	BB	NM05	24.78	65.37	0.25	14
2010	WN	BD	EU01	25.01	26.55	0.171	1.389
2010	WN	BD	ES02	25.01	27.24	1.282	6.173
2010	WN	BD	NM01	25.01	28.96	0.38	21
2010	WN	BD	EU03	25.01	30.72	1.556	12.658
2010	WN	BD	NM02	25.01	37.08	0.38	21
2010	WN	BD	NM03	25.01	45.19	0.38	21
2010	WN	BD	NM04	25.01	53.31	0.38	21
2010	WN	BD	NM05	25.01	61.42	0.38	21
2010	WN	BE	EU01	25.67	25.37	0.275	4.943
2010	WN	BE	EU02	25.67	26.55	4.363	78.301
2010	WN	BE	ES03	25.67	27.24	1.68	19.867
2010	WN	BE	EU04	25.67	27.65	0.246	4.422
2010	WN	BE	NM01	25.67	28.37	2	280
2010	WN	BE	NM02	25.67	29.35	2	280
2010	WN	BE	EU05	25.67	30.72	3.363	60.352
2010	WN	BE	NM03	25.67	31.33	2	280
2010	WN	BE	NM04	25.67	60.7	2	280
2010	WN	BG	EU01	26.03	24.57	0.057	1.266
2010	WN	BG	EU02	26.03	25.37	2.759	61.36
2010	WN	BG	EU03	26.03	25.56	2.956	65.735
2010	WN	BG	EU04	26.03	26.55	0.927	20.607
2010	WN	BG	NM01	26.03	27.14	5	700
2010	WN	BG	ES05	26.03	27.24	0.253	17.529
2010	WN	BG	EU06	26.03	27.65	2.485	55.259
2010	WN	BG	NM02	26.03	28.13	5	700
2010	WN	BG	EU07	26.03	28.7	1.89	42.02
2010	WN	BG	NM03	26.03	29.12	5	700
2010	WN	BG	EU08	26.03	30.72	0.699	15.541
2010	WN	BG	NM04	26.03	66.59	5	700
2010	WN	BH	NM01	25.15	24.35	5	700
2010	WN	BH	EU01	25.15	24.57	9.511	217.53
2010	WN	BH	NM02	25.15	25.09	5	700
2010	WN	BH	EU02	25.15	25.37	0.233	5.323
2010	WN	BH	EU03	25.15	25.56	4.111	94.038
2010	WN	BH	NM03	25.15	25.83	5	700
2010	WN	BH	ES04	25.15	27.24	0.35	16.674
2010	WN	BH	EU05	25.15	28.7	0.062	1.419
2010	WN	BH	EU06	25.15	30.72	0.853	19.517
2010	WN	BH	NM04	25.15	59.74	5	700
2015	WN	BB	EU01	24.78	24.87	0.093	0.092
2015	WN	BB	ES02	24.78	26.71	0.003	0.56
2015	WN	BB	NM01	24.78	28.93	0.25	14
2015	WN	BB	EU03	24.78	30.12	0.111	0.11
2015	WN	BB	NM02	24.78	37.71	0.25	14
2015	WN	BB	NM03	24.78	46.5	0.25	14
2015	WN	BB	NM04	24.78	55.29	0.25	14
2015	WN	BB	NM05	24.78	64.08	0.25	14
2015	WN	BD	EU01	25.01	26.02	0.171	1.389
2015	WN	BD	ES02	25.01	26.71	1.282	6.173
2015	WN	BD	NM01	25.01	28.38	0.38	21

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	WN	BD	EU03	25.01	30.12	1.556	12.658
2015	WN	BD	NM02	25.01	36.34	0.38	21
2015	WN	BD	NM03	25.01	44.3	0.38	21
2015	WN	BD	NM04	25.01	52.25	0.38	21
2015	WN	BD	NM05	25.01	60.21	0.38	21
2015	WN	BE	EU01	25.67	24.87	0.275	4.943
2015	WN	BE	EU02	25.67	26.02	4.363	78.301
2015	WN	BE	ES03	25.67	26.71	1.68	19.867
2015	WN	BE	EU04	25.67	27.1	0.246	4.422
2015	WN	BE	NM01	25.67	27.8	2	280
2015	WN	BE	NM02	25.67	28.77	2	280
2015	WN	BE	EU05	25.67	30.12	3.363	60.352
2015	WN	BE	NM03	25.67	30.71	2	280
2015	WN	BE	NM04	25.67	59.49	2	280
2015	WN	BG	EU01	26.03	24.08	0.057	1.266
2015	WN	BG	EU02	26.03	24.87	2.759	61.36
2015	WN	BG	EU03	26.03	25.05	2.956	65.735
2015	WN	BG	EU04	26.03	26.02	0.927	20.607
2015	WN	BG	NM01	26.03	26.6	5	700
2015	WN	BG	ES05	26.03	26.71	0.253	17.529
2015	WN	BG	EU06	26.03	27.1	2.485	55.259
2015	WN	BG	NM02	26.03	27.57	5	700
2015	WN	BG	EU07	26.03	28.14	1.89	42.02
2015	WN	BG	NM03	26.03	28.54	5	700
2015	WN	BG	EU08	26.03	30.12	0.699	15.541
2015	WN	BG	NM04	26.03	65.27	5	700
2015	WN	BH	NM01	25.15	23.86	5	700
2015	WN	BH	EU01	25.15	24.08	9.511	217.53
2015	WN	BH	NM02	25.15	24.59	5	700
2015	WN	BH	EU02	25.15	24.87	0.233	5.323
2015	WN	BH	EU03	25.15	25.05	4.111	94.038
2015	WN	BH	NM03	25.15	25.32	5	700
2015	WN	BH	ES04	25.15	26.71	0.35	16.674
2015	WN	BH	EU05	25.15	28.14	0.062	1.419
2015	WN	BH	EU06	25.15	30.12	0.853	19.517
2015	WN	BH	NM04	25.15	58.55	5	700
2020	WN	BB	EU01	24.78	24.38	0.093	0.092
2020	WN	BB	ES02	24.78	26.17	0.003	0.56
2020	WN	BB	NM01	24.78	28.36	0.25	14
2020	WN	BB	EU03	24.78	29.52	0.111	0.11
2020	WN	BB	NM02	24.78	36.97	0.25	14
2020	WN	BB	NM03	24.78	45.58	0.25	14
2020	WN	BB	NM04	24.78	54.19	0.25	14
2020	WN	BB	NM05	24.78	62.81	0.25	14
2020	WN	BD	EU01	25.01	25.51	0.171	1.389
2020	WN	BD	ES02	25.01	26.17	1.282	6.173
2020	WN	BD	NM01	25.01	27.81	0.38	21
2020	WN	BD	EU03	25.01	29.52	1.556	12.658
2020	WN	BD	NM02	25.01	35.62	0.38	21
2020	WN	BD	NM03	25.01	43.42	0.38	21
2020	WN	BD	NM04	25.01	51.21	0.38	21
2020	WN	BD	NM05	25.01	59.02	0.38	21
2020	WN	BE	EU01	25.67	24.38	0.275	4.943
2020	WN	BE	EU02	25.67	25.51	4.363	78.301
2020	WN	BE	ES03	25.67	26.17	1.68	19.867
2020	WN	BE	EU04	25.67	26.55	0.246	4.422
2020	WN	BE	NM01	25.67	27.25	2	280
2020	WN	BE	NM02	25.67	28.2	2	280
2020	WN	BE	EU05	25.67	29.52	3.363	60.352
2020	WN	BE	NM03	25.67	30.1	2	280
2020	WN	BE	NM04	25.67	58.31	2	280
2020	WN	BG	EU01	26.03	23.6	0.057	1.266
2020	WN	BG	EU02	26.03	24.38	2.759	61.36
2020	WN	BG	EU03	26.03	24.55	2.956	65.735
2020	WN	BG	EU04	26.03	25.51	0.927	20.607
2020	WN	BG	NM01	26.03	26.08	5	700
2020	WN	BG	ES05	26.03	26.17	0.253	17.529
2020	WN	BG	EU06	26.03	26.55	2.485	55.259
2020	WN	BG	NM02	26.03	27.02	5	700
2020	WN	BG	EU07	26.03	27.58	1.89	42.02
2020	WN	BG	NM03	26.03	27.97	5	700
2020	WN	BG	EU08	26.03	29.52	0.699	15.541
2020	WN	BG	NM04	26.03	63.98	5	700
2020	WN	BH	NM01	25.15	23.39	5	700
2020	WN	BH	EU01	25.15	23.6	9.511	217.53
2020	WN	BH	NM02	25.15	24.1	5	700
2020	WN	BH	EU02	25.15	24.38	0.233	5.323

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	WN	BH	EU03	25.15	24.55	4.111	94.038
2020	WN	BH	NM03	25.15	24.81	5	700
2020	WN	BH	ES04	25.15	26.17	0.35	16.674
2020	WN	BH	EU05	25.15	27.58	0.062	1.419
2020	WN	BH	EU06	25.15	29.52	0.853	19.517
2020	WN	BH	NM04	25.15	57.39	5	700
2025	WN	BB	EU01	24.78	23.89	0.093	0.092
2025	WN	BB	ES02	24.78	25.66	0.003	0.56
2025	WN	BB	NM01	24.78	27.79	0.25	14
2025	WN	BB	EU03	24.78	28.93	0.111	0.11
2025	WN	BB	NM02	24.78	36.23	0.25	14
2025	WN	BB	NM03	24.78	44.68	0.25	14
2025	WN	BB	NM04	24.78	53.12	0.25	14
2025	WN	BB	NM05	24.78	61.56	0.25	14
2025	WN	BD	EU01	25.01	25	0.171	1.389
2025	WN	BD	ES02	25.01	25.66	1.282	6.173
2025	WN	BD	NM01	25.01	27.27	0.38	21
2025	WN	BD	EU03	25.01	28.93	1.556	12.658
2025	WN	BD	NM02	25.01	34.91	0.38	21
2025	WN	BD	NM03	25.01	42.55	0.38	21
2025	WN	BD	NM04	25.01	50.2	0.38	21
2025	WN	BD	NM05	25.01	57.84	0.38	21
2025	WN	BE	EU01	25.67	23.89	0.275	4.943
2025	WN	BE	EU02	25.67	25	4.363	78.301
2025	WN	BE	ES03	25.67	25.66	1.68	19.867
2025	WN	BE	EU04	25.67	26.03	0.246	4.422
2025	WN	BE	NM01	25.67	26.71	2	280
2025	WN	BE	NM02	25.67	27.64	2	280
2025	WN	BE	EU05	25.67	28.93	3.363	60.352
2025	WN	BE	NM03	25.67	29.5	2	280
2025	WN	BE	NM04	25.67	57.15	2	280
2025	WN	BG	EU01	26.03	23.13	0.057	1.266
2025	WN	BG	EU02	26.03	23.89	2.759	61.36
2025	WN	BG	EU03	26.03	24.07	2.956	65.735
2025	WN	BG	EU04	26.03	25	0.927	20.607
2025	WN	BG	NM01	26.03	25.56	5	700
2025	WN	BG	ES05	26.03	25.66	0.253	17.529
2025	WN	BG	EU06	26.03	26.03	2.485	55.259
2025	WN	BG	NM02	26.03	26.49	5	700
2025	WN	BG	EU07	26.03	27.03	1.89	42.02
2025	WN	BG	NM03	26.03	27.42	5	700
2025	WN	BG	EU08	26.03	28.93	0.699	15.541
2025	WN	BG	NM04	26.03	62.71	5	700
2025	WN	BH	NM01	25.15	22.92	5	700
2025	WN	BH	EU01	25.15	23.13	9.511	217.53
2025	WN	BH	NM02	25.15	23.62	5	700
2025	WN	BH	EU02	25.15	23.89	0.233	5.323
2025	WN	BH	EU03	25.15	24.07	4.111	94.038
2025	WN	BH	NM03	25.15	24.32	5	700
2025	WN	BH	ES04	25.15	25.66	0.35	16.674
2025	WN	BH	EU05	25.15	27.03	0.062	1.419
2025	WN	BH	EU06	25.15	28.93	0.853	19.517
2025	WN	BH	NM04	25.15	56.25	5	700
2035	WN	BB	EU01	24.78	23.42	0.093	0.092
2035	WN	BB	ES02	24.78	25.15	0.003	0.56
2035	WN	BB	NM01	24.78	27.24	0.25	14
2035	WN	BB	EU03	24.78	28.36	0.111	0.11
2035	WN	BB	NM02	24.78	35.52	0.25	14
2035	WN	BB	NM03	24.78	43.79	0.25	14
2035	WN	BB	NM04	24.78	52.06	0.25	14
2035	WN	BB	NM05	24.78	60.34	0.25	14
2035	WN	BD	EU01	25.01	24.5	0.171	1.389
2035	WN	BD	ES02	25.01	25.15	1.282	6.173
2035	WN	BD	NM01	25.01	26.72	0.38	21
2035	WN	BD	EU03	25.01	28.36	1.556	12.658
2035	WN	BD	NM02	25.01	34.22	0.38	21
2035	WN	BD	NM03	25.01	41.71	0.38	21
2035	WN	BD	NM04	25.01	49.21	0.38	21
2035	WN	BD	NM05	25.01	56.7	0.38	21
2035	WN	BE	EU01	25.67	23.42	0.275	4.943
2035	WN	BE	EU02	25.67	24.5	4.363	78.301
2035	WN	BE	ES03	25.67	25.15	1.68	19.867
2035	WN	BE	EU04	25.67	25.52	0.246	4.422
2035	WN	BE	NM01	25.67	26.18	2	280
2035	WN	BE	NM02	25.67	27.09	2	280
2035	WN	BE	EU05	25.67	28.36	3.363	60.352
2035	WN	BE	NM03	25.67	28.92	2	280

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	WN	BE	NM04	25.67	56.02	2	280
2035	WN	BG	EU01	26.03	22.67	0.057	1.266
2035	WN	BG	EU02	26.03	23.42	2.759	61.36
2035	WN	BG	EU03	26.03	23.59	2.956	65.735
2035	WN	BG	EU04	26.03	24.5	0.927	20.607
2035	WN	BG	NM01	26.03	25.05	5	700
2035	WN	BG	ES05	26.03	25.15	0.253	17.529
2035	WN	BG	EU06	26.03	25.52	2.485	55.259
2035	WN	BG	NM02	26.03	25.96	5	700
2035	WN	BG	EU07	26.03	26.5	1.89	42.02
2035	WN	BG	NM03	26.03	26.87	5	700
2035	WN	BG	EU08	26.03	28.36	0.699	15.541
2035	WN	BG	NM04	26.03	61.46	5	700
2035	WN	BH	NM01	25.15	22.47	5	700
2035	WN	BH	EU01	25.15	22.67	9.511	217.53
2035	WN	BH	NM02	25.15	23.15	5	700
2035	WN	BH	EU02	25.15	23.42	0.233	5.323
2035	WN	BH	EU03	25.15	23.59	4.111	94.038
2035	WN	BH	NM03	25.15	23.84	5	700
2035	WN	BH	ES04	25.15	25.15	0.35	16.674
2035	WN	BH	EU05	25.15	26.5	0.062	1.419
2035	WN	BH	EU06	25.15	28.36	0.853	19.517
2035	WN	BH	NM04	25.15	55.14	5	700
2007	WS	BB	EU01	24.73	26.99	0.862	9.682
2007	WS	BB	EU02	24.73	27.95	0.2	2.247
2007	WS	BB	ES03	24.73	29.32	15.971	157.435
2007	WS	BB	EU04	24.73	29.56	6.83	76.682
2007	WS	BB	NM01	24.73	31.21	0.25	12
2007	WS	BB	NM02	24.73	32.06	0.25	12
2007	WS	BB	NM03	24.73	32.9	0.25	12
2007	WS	BB	NM04	24.73	33.74	0.25	12
2007	WS	BB	NM05	24.73	34.58	0.25	12
2007	WS	BB	NM06	24.73	35.43	0.25	12
2007	WS	BB	NM07	24.73	36.26	0.25	12
2007	WS	BB	NM08	24.73	37.11	0.25	12
2007	WS	BB	NM09	24.73	37.95	0.25	12
2007	WS	BB	NM10	24.73	38.79	0.25	12
2007	WS	BB	NM11	24.73	39.63	0.25	12
2007	WS	BB	NM12	24.73	40.48	0.25	12
2007	WS	BB	NM13	24.73	41.31	0.25	12
2007	WS	BB	NM14	24.73	42.16	0.25	12
2007	WS	BB	NM15	24.73	43	0.25	12
2007	WS	BB	NM16	24.73	43.84	0.25	12
2007	WS	BB	NM17	24.73	44.68	0.25	12
2007	WS	BB	NM18	24.73	45.53	0.25	12
2007	WS	BB	NM19	24.73	46.36	0.25	12
2007	WS	BB	NM20	24.73	47.21	0.25	12
2007	WS	BB	NM21	24.73	48.05	0.25	12
2007	WS	BB	NM22	24.73	48.89	0.25	12
2007	WS	BB	NM23	24.73	49.73	0.25	12
2007	WS	BB	NM24	24.73	50.58	0.25	12
2007	WS	BB	NM25	24.73	51.41	0.25	12
2007	WS	BD	NM01	24.64	25.94	2	96
2007	WS	BD	NM02	24.64	26.41	2	96
2007	WS	BD	NM03	24.64	26.88	2	96
2007	WS	BD	EU01	24.64	26.99	0.174	2.537
2007	WS	BD	NM04	24.64	27.33	2	96
2007	WS	BD	NM05	24.64	27.8	2	96
2007	WS	BD	EU02	24.64	27.95	1.756	25.577
2007	WS	BD	NM06	24.64	28.26	2	96
2007	WS	BD	NM07	24.64	28.73	2	96
2007	WS	BD	NM08	24.64	29.18	2	96
2007	WS	BD	ES01	24.64	29.32	16.209	260.138
2007	WS	BD	EU03	24.64	29.56	8.488	123.623
2007	WS	BD	NM09	24.64	29.65	2	96
2007	WS	BD	NM10	24.64	30.12	2	96
2007	WS	BD	NM11	24.64	30.58	2	96
2007	WS	BD	NM12	24.64	31.05	2	96
2007	WS	BD	EU04	24.64	31.17	0.606	8.83
2007	WS	BD	NM13	24.64	31.5	2	96
2007	WS	BD	NM14	24.64	31.97	2	96
2007	WS	BD	NM15	24.64	32.44	2	96
2007	WS	BD	NM16	24.64	32.9	2	96
2007	WS	BD	NM17	24.64	33.36	2	96
2007	WS	BD	NM18	24.64	33.82	2	96
2007	WS	BD	NM19	24.64	34.29	2	96
2007	WS	BD	NM20	24.64	34.76	2	96

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	WS	BD	NM21	24.64	35.22	2	96
2007	WS	BD	NM22	24.64	35.68	2	96
2007	WS	BD	NM23	24.64	36.14	2	96
2007	WS	BD	NM24	24.64	36.61	2	96
2007	WS	BD	NM25	24.64	37.08	2	96
2007	WS	BD	NM26	24.64	37.53	2	96
2007	WS	BD	NM27	24.64	38	2	96
2007	WS	BD	NM28	24.64	38.47	2	96
2007	WS	BD	NM29	24.64	38.93	2	96
2007	WS	BD	NM30	24.64	39.4	2	96
2007	WS	BD	NM31	24.64	39.85	2	96
2007	WS	BD	NM32	24.64	40.32	2	96
2007	WS	BD	NM33	24.64	40.78	2	96
2007	WS	BD	NM34	24.64	41.25	2	96
2007	WS	BD	NM35	24.64	41.71	2	96
2007	WS	BD	NM36	24.64	42.17	2	96
2007	WS	BD	NM37	24.64	42.64	2	96
2007	WS	BD	NM38	24.64	42.99	1	48
2007	WS	BE	NM01	24.38	27.82	1	48
2007	WS	BE	NM02	24.38	28.31	1	48
2007	WS	BE	NM03	24.38	28.81	1	48
2007	WS	BE	NM04	24.38	29.3	1	48
2007	WS	BE	ES01	24.38	29.32	9.653	153.763
2007	WS	BE	EU01	24.38	29.56	6.535	94.603
2007	WS	BE	NM05	24.38	29.8	1	48
2007	WS	BE	NM06	24.38	30.29	1	48
2007	WS	BE	NM07	24.38	30.79	1	48
2007	WS	BE	NM08	24.38	31.28	1	48
2007	WS	BE	NM09	24.38	31.77	1	48
2007	WS	BE	NM10	24.38	32.26	1	48
2007	WS	BE	NM11	24.38	32.76	1	48
2007	WS	BE	NM12	24.38	33.25	1	48
2007	WS	BE	NM13	24.38	33.74	1	48
2007	WS	BE	NM14	24.38	34.25	1	48
2007	WS	BE	NM15	24.38	34.74	1	48
2007	WS	BE	NM16	24.38	35.23	1	48
2007	WS	BE	NM17	24.38	35.72	1	48
2007	WS	BE	NM18	24.38	36.22	1	48
2007	WS	BE	NM19	24.38	36.71	1	48
2007	WS	BE	NM20	24.38	37.21	1	48
2007	WS	BE	NM21	24.38	37.7	1	48
2007	WS	BE	NM22	24.38	38.19	1	48
2007	WS	BE	NM23	24.38	38.68	1	48
2007	WS	BE	NM24	24.38	39.18	1	48
2007	WS	BE	NM25	24.38	39.67	1	48
2007	WS	BE	NM26	24.38	40.16	1	48
2007	WS	BE	NM27	24.38	40.67	1	48
2007	WS	BE	NM28	24.38	41.16	1	48
2007	WS	BE	NM29	24.38	41.65	1	48
2007	WS	BE	NM30	24.38	42.14	1	48
2007	WS	BE	NM31	24.38	42.64	1	48
2007	WS	BE	NM32	24.38	43.13	1	48
2007	WS	BE	NM33	24.38	43.63	1	48
2007	WS	BE	NM34	24.38	44.12	1	48
2007	WS	BE	NM35	24.38	44.61	1	48
2007	WS	BE	NM36	24.38	45.11	1	48
2007	WS	BE	NM37	24.38	45.6	1	48
2007	WS	BE	NM38	24.38	45.97	0.5	24
2007	WS	BG	NM01	25.64	27.33	0.25	12
2007	WS	BG	NM02	25.64	28.26	0.25	12
2007	WS	BG	NM03	25.64	29.17	0.25	12
2007	WS	BG	ES01	25.64	29.32	0.027	0.202
2007	WS	BG	EU02	25.64	29.56	0.012	0.062
2007	WS	BG	NM04	25.64	30.1	0.25	12
2007	WS	BG	NM05	25.64	31.02	0.25	12
2007	WS	BG	NM06	25.64	31.95	0.25	12
2007	WS	BG	NM07	25.64	32.86	0.25	12
2007	WS	BG	NM08	25.64	33.79	0.25	12
2007	WS	BG	NM09	25.64	34.71	0.25	12
2007	WS	BG	NM10	25.64	35.64	0.25	12
2007	WS	BG	NM11	25.64	36.55	0.25	12
2007	WS	BG	NM12	25.64	37.48	0.25	12
2007	WS	BG	NM13	25.64	38.4	0.25	12
2007	WS	BG	NM14	25.64	39.33	0.25	12
2007	WS	BG	NM15	25.64	40.24	0.25	12
2007	WS	BG	NM16	25.64	41.17	0.25	12
2007	WS	BG	NM17	25.64	42.09	0.25	12

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2007	WS	BG	NM18	25.64	43.02	0.25	12
2007	WS	BG	NM19	25.64	43.93	0.25	12
2007	WS	BG	NM20	25.64	44.86	0.25	12
2007	WS	BH	NM01	25.52	27.33	0.25	12
2007	WS	BH	NM02	25.52	31.02	0.25	12
2007	WS	BH	NM03	25.52	34.71	0.25	12
2007	WS	BH	NM04	25.52	38.4	0.25	12
2007	WS	BH	NM05	25.52	42.09	0.25	12
2008	WS	BB	EU01	24.73	26.88	0.862	9.682
2008	WS	BB	EU02	24.73	27.84	0.2	2.247
2008	WS	BB	ES03	24.73	29.21	15.971	157.435
2008	WS	BB	EU04	24.73	29.44	6.83	76.682
2008	WS	BB	NM01	24.73	31.09	0.25	12
2008	WS	BB	NM02	24.73	31.93	0.25	12
2008	WS	BB	NM03	24.73	32.76	0.25	12
2008	WS	BB	NM04	24.73	33.61	0.25	12
2008	WS	BB	NM05	24.73	34.43	0.25	12
2008	WS	BB	NM06	24.73	35.28	0.25	12
2008	WS	BB	NM07	24.73	36.12	0.25	12
2008	WS	BB	NM08	24.73	36.97	0.25	12
2008	WS	BB	NM09	24.73	37.79	0.25	12
2008	WS	BB	NM10	24.73	38.64	0.25	12
2008	WS	BB	NM11	24.73	39.47	0.25	12
2008	WS	BB	NM12	24.73	40.31	0.25	12
2008	WS	BB	NM13	24.73	41.15	0.25	12
2008	WS	BB	NM14	24.73	41.99	0.25	12
2008	WS	BB	NM15	24.73	42.83	0.25	12
2008	WS	BB	NM16	24.73	43.67	0.25	12
2008	WS	BB	NM17	24.73	44.5	0.25	12
2008	WS	BB	NM18	24.73	45.35	0.25	12
2008	WS	BB	NM19	24.73	46.17	0.25	12
2008	WS	BB	NM20	24.73	47.02	0.25	12
2008	WS	BB	NM21	24.73	47.86	0.25	12
2008	WS	BB	NM22	24.73	48.7	0.25	12
2008	WS	BB	NM23	24.73	49.53	0.25	12
2008	WS	BB	NM24	24.73	50.38	0.25	12
2008	WS	BB	NM25	24.73	51.21	0.25	12
2008	WS	BD	NM01	24.64	25.84	2	96
2008	WS	BD	NM02	24.64	26.3	2	96
2008	WS	BD	NM03	24.64	26.77	2	96
2008	WS	BD	EU01	24.64	26.88	0.174	2.537
2008	WS	BD	NM04	24.64	27.22	2	96
2008	WS	BD	NM05	24.64	27.69	2	96
2008	WS	BD	EU02	24.64	27.84	1.756	25.577
2008	WS	BD	NM06	24.64	28.15	2	96
2008	WS	BD	NM07	24.64	28.62	2	96
2008	WS	BD	NM08	24.64	29.07	2	96
2008	WS	BD	ES01	24.64	29.21	16.209	260.138
2008	WS	BD	EU03	24.64	29.44	8.488	123.623
2008	WS	BD	NM09	24.64	29.54	2	96
2008	WS	BD	NM10	24.64	30	2	96
2008	WS	BD	NM11	24.64	30.46	2	96
2008	WS	BD	NM12	24.64	30.92	2	96
2008	WS	BD	EU04	24.64	31.05	0.606	8.83
2008	WS	BD	NM13	24.64	31.38	2	96
2008	WS	BD	NM14	24.64	31.85	2	96
2008	WS	BD	NM15	24.64	32.31	2	96
2008	WS	BD	NM16	24.64	32.77	2	96
2008	WS	BD	NM17	24.64	33.23	2	96
2008	WS	BD	NM18	24.64	33.69	2	96
2008	WS	BD	NM19	24.64	34.16	2	96
2008	WS	BD	NM20	24.64	34.61	2	96
2008	WS	BD	NM21	24.64	35.08	2	96
2008	WS	BD	NM22	24.64	35.54	2	96
2008	WS	BD	NM23	24.64	36.01	2	96
2008	WS	BD	NM24	24.64	36.46	2	96
2008	WS	BD	NM25	24.64	36.92	2	96
2008	WS	BD	NM26	24.64	37.39	2	96
2008	WS	BD	NM27	24.64	37.85	2	96
2008	WS	BD	NM28	24.64	38.31	2	96
2008	WS	BD	NM29	24.64	38.77	2	96
2008	WS	BD	NM30	24.64	39.24	2	96
2008	WS	BD	NM31	24.64	39.7	2	96
2008	WS	BD	NM32	24.64	40.15	2	96
2008	WS	BD	NM33	24.64	40.62	2	96
2008	WS	BD	NM34	24.64	41.08	2	96
2008	WS	BD	NM35	24.64	41.55	2	96

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	WS	BD	NM36	24.64	42	2	96
2008	WS	BD	NM37	24.64	42.47	2	96
2008	WS	BD	NM38	24.64	42.81	1	48
2008	WS	BE	NM01	24.38	27.71	1	48
2008	WS	BE	NM02	24.38	28.2	1	48
2008	WS	BE	NM03	24.38	28.69	1	48
2008	WS	BE	NM04	24.38	29.18	1	48
2008	WS	BE	ES01	24.38	29.21	9.653	153.763
2008	WS	BE	EU01	24.38	29.44	6.535	94.603
2008	WS	BE	NM05	24.38	29.67	1	48
2008	WS	BE	NM06	24.38	30.17	1	48
2008	WS	BE	NM07	24.38	30.66	1	48
2008	WS	BE	NM08	24.38	31.15	1	48
2008	WS	BE	NM09	24.38	31.64	1	48
2008	WS	BE	NM10	24.38	32.14	1	48
2008	WS	BE	NM11	24.38	32.63	1	48
2008	WS	BE	NM12	24.38	33.12	1	48
2008	WS	BE	NM13	24.38	33.61	1	48
2008	WS	BE	NM14	24.38	34.1	1	48
2008	WS	BE	NM15	24.38	34.6	1	48
2008	WS	BE	NM16	24.38	35.09	1	48
2008	WS	BE	NM17	24.38	35.58	1	48
2008	WS	BE	NM18	24.38	36.07	1	48
2008	WS	BE	NM19	24.38	36.56	1	48
2008	WS	BE	NM20	24.38	37.05	1	48
2008	WS	BE	NM21	24.38	37.55	1	48
2008	WS	BE	NM22	24.38	38.04	1	48
2008	WS	BE	NM23	24.38	38.53	1	48
2008	WS	BE	NM24	24.38	39.03	1	48
2008	WS	BE	NM25	24.38	39.52	1	48
2008	WS	BE	NM26	24.38	40.01	1	48
2008	WS	BE	NM27	24.38	40.5	1	48
2008	WS	BE	NM28	24.38	40.99	1	48
2008	WS	BE	NM29	24.38	41.48	1	48
2008	WS	BE	NM30	24.38	41.98	1	48
2008	WS	BE	NM31	24.38	42.47	1	48
2008	WS	BE	NM32	24.38	42.96	1	48
2008	WS	BE	NM33	24.38	43.45	1	48
2008	WS	BE	NM34	24.38	43.94	1	48
2008	WS	BE	NM35	24.38	44.43	1	48
2008	WS	BE	NM36	24.38	44.92	1	48
2008	WS	BE	NM37	24.38	45.42	1	48
2008	WS	BE	NM38	24.38	45.79	0.5	24
2008	WS	BG	NM01	25.64	27.22	0.25	12
2008	WS	BG	NM02	25.64	28.15	0.25	12
2008	WS	BG	NM03	25.64	29.06	0.25	12
2008	WS	BG	ES01	25.64	29.21	0.027	0.202
2008	WS	BG	EU02	25.64	29.44	0.012	0.062
2008	WS	BG	NM04	25.64	29.99	0.25	12
2008	WS	BG	NM05	25.64	30.9	0.25	12
2008	WS	BG	NM06	25.64	31.82	0.25	12
2008	WS	BG	NM07	25.64	32.73	0.25	12
2008	WS	BG	NM08	25.64	33.65	0.25	12
2008	WS	BG	NM09	25.64	34.57	0.25	12
2008	WS	BG	NM10	25.64	35.49	0.25	12
2008	WS	BG	NM11	25.64	36.41	0.25	12
2008	WS	BG	NM12	25.64	37.33	0.25	12
2008	WS	BG	NM13	25.64	38.25	0.25	12
2008	WS	BG	NM14	25.64	39.17	0.25	12
2008	WS	BG	NM15	25.64	40.09	0.25	12
2008	WS	BG	NM16	25.64	41.01	0.25	12
2008	WS	BG	NM17	25.64	41.93	0.25	12
2008	WS	BG	NM18	25.64	42.84	0.25	12
2008	WS	BG	NM19	25.64	43.75	0.25	12
2008	WS	BG	NM20	25.64	44.68	0.25	12
2008	WS	BH	NM01	25.52	27.22	0.25	12
2008	WS	BH	NM02	25.52	30.9	0.25	12
2008	WS	BH	NM03	25.52	34.57	0.25	12
2008	WS	BH	NM04	25.52	38.25	0.25	12
2008	WS	BH	NM05	25.52	41.93	0.25	12
2009	WS	BB	EU01	24.73	26.78	0.862	9.682
2009	WS	BB	EU02	24.73	27.72	0.2	2.247
2009	WS	BB	ES03	24.73	29.08	15.971	157.435
2009	WS	BB	EU04	24.73	29.33	6.83	76.682
2009	WS	BB	NM01	24.73	30.96	0.25	12
2009	WS	BB	NM02	24.73	31.8	0.25	12
2009	WS	BB	NM03	24.73	32.63	0.25	12

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	WS	BB	NM04	24.73	33.48	0.25	12
2009	WS	BB	NM05	24.73	34.3	0.25	12
2009	WS	BB	NM06	24.73	35.14	0.25	12
2009	WS	BB	NM07	24.73	35.97	0.25	12
2009	WS	BB	NM08	24.73	36.81	0.25	12
2009	WS	BB	NM09	24.73	37.65	0.25	12
2009	WS	BB	NM10	24.73	38.48	0.25	12
2009	WS	BB	NM11	24.73	39.32	0.25	12
2009	WS	BB	NM12	24.73	40.15	0.25	12
2009	WS	BB	NM13	24.73	40.98	0.25	12
2009	WS	BB	NM14	24.73	41.83	0.25	12
2009	WS	BB	NM15	24.73	42.65	0.25	12
2009	WS	BB	NM16	24.73	43.5	0.25	12
2009	WS	BB	NM17	24.73	44.32	0.25	12
2009	WS	BB	NM18	24.73	45.16	0.25	12
2009	WS	BB	NM19	24.73	45.99	0.25	12
2009	WS	BB	NM20	24.73	46.83	0.25	12
2009	WS	BB	NM21	24.73	47.67	0.25	12
2009	WS	BB	NM22	24.73	48.5	0.25	12
2009	WS	BB	NM23	24.73	49.34	0.25	12
2009	WS	BB	NM24	24.73	50.18	0.25	12
2009	WS	BB	NM25	24.73	51	0.25	12
2009	WS	BD	NM01	24.64	25.74	2	96
2009	WS	BD	NM02	24.64	26.2	2	96
2009	WS	BD	NM03	24.64	26.65	2	96
2009	WS	BD	EU01	24.64	26.78	0.174	2.537
2009	WS	BD	NM04	24.64	27.11	2	96
2009	WS	BD	NM05	24.64	27.58	2	96
2009	WS	BD	EU02	24.64	27.72	1.756	25.577
2009	WS	BD	NM06	24.64	28.04	2	96
2009	WS	BD	NM07	24.64	28.49	2	96
2009	WS	BD	NM08	24.64	28.96	2	96
2009	WS	BD	ES01	24.64	29.08	16.209	260.138
2009	WS	BD	EU03	24.64	29.33	8.488	123.623
2009	WS	BD	NM09	24.64	29.42	2	96
2009	WS	BD	NM10	24.64	29.88	2	96
2009	WS	BD	NM11	24.64	30.33	2	96
2009	WS	BD	NM12	24.64	30.8	2	96
2009	WS	BD	EU04	24.64	30.92	0.606	8.83
2009	WS	BD	NM13	24.64	31.26	2	96
2009	WS	BD	NM14	24.64	31.71	2	96
2009	WS	BD	NM15	24.64	32.17	2	96
2009	WS	BD	NM16	24.64	32.64	2	96
2009	WS	BD	NM17	24.64	33.1	2	96
2009	WS	BD	NM18	24.64	33.55	2	96
2009	WS	BD	NM19	24.64	34.02	2	96
2009	WS	BD	NM20	24.64	34.48	2	96
2009	WS	BD	NM21	24.64	34.94	2	96
2009	WS	BD	NM22	24.64	35.39	2	96
2009	WS	BD	NM23	24.64	35.86	2	96
2009	WS	BD	NM24	24.64	36.32	2	96
2009	WS	BD	NM25	24.64	36.78	2	96
2009	WS	BD	NM26	24.64	37.23	2	96
2009	WS	BD	NM27	24.64	37.7	2	96
2009	WS	BD	NM28	24.64	38.16	2	96
2009	WS	BD	NM29	24.64	38.62	2	96
2009	WS	BD	NM30	24.64	39.08	2	96
2009	WS	BD	NM31	24.64	39.54	2	96
2009	WS	BD	NM32	24.64	40	2	96
2009	WS	BD	NM33	24.64	40.45	2	96
2009	WS	BD	NM34	24.64	40.92	2	96
2009	WS	BD	NM35	24.64	41.38	2	96
2009	WS	BD	NM36	24.64	41.84	2	96
2009	WS	BD	NM37	24.64	42.29	2	96
2009	WS	BD	NM38	24.64	42.65	1	48
2009	WS	BE	NM01	24.38	27.6	1	48
2009	WS	BE	NM02	24.38	28.09	1	48
2009	WS	BE	NM03	24.38	28.58	1	48
2009	WS	BE	NM04	24.38	29.07	1	48
2009	WS	BE	ES01	24.38	29.08	9.653	153.763
2009	WS	BE	EU01	24.38	29.33	6.535	94.603
2009	WS	BE	NM05	24.38	29.56	1	48
2009	WS	BE	NM06	24.38	30.05	1	48
2009	WS	BE	NM07	24.38	30.54	1	48
2009	WS	BE	NM08	24.38	31.02	1	48
2009	WS	BE	NM09	24.38	31.51	1	48
2009	WS	BE	NM10	24.38	32	1	48

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2009	WS	BE	NM11	24.38	32.5	1	48
2009	WS	BE	NM12	24.38	32.99	1	48
2009	WS	BE	NM13	24.38	33.48	1	48
2009	WS	BE	NM14	24.38	33.97	1	48
2009	WS	BE	NM15	24.38	34.46	1	48
2009	WS	BE	NM16	24.38	34.95	1	48
2009	WS	BE	NM17	24.38	35.44	1	48
2009	WS	BE	NM18	24.38	35.93	1	48
2009	WS	BE	NM19	24.38	36.42	1	48
2009	WS	BE	NM20	24.38	36.91	1	48
2009	WS	BE	NM21	24.38	37.4	1	48
2009	WS	BE	NM22	24.38	37.89	1	48
2009	WS	BE	NM23	24.38	38.38	1	48
2009	WS	BE	NM24	24.38	38.86	1	48
2009	WS	BE	NM25	24.38	39.35	1	48
2009	WS	BE	NM26	24.38	39.84	1	48
2009	WS	BE	NM27	24.38	40.33	1	48
2009	WS	BE	NM28	24.38	40.82	1	48
2009	WS	BE	NM29	24.38	41.31	1	48
2009	WS	BE	NM30	24.38	41.81	1	48
2009	WS	BE	NM31	24.38	42.29	1	48
2009	WS	BE	NM32	24.38	42.78	1	48
2009	WS	BE	NM33	24.38	43.27	1	48
2009	WS	BE	NM34	24.38	43.77	1	48
2009	WS	BE	NM35	24.38	44.26	1	48
2009	WS	BE	NM36	24.38	44.75	1	48
2009	WS	BE	NM37	24.38	45.24	1	48
2009	WS	BE	NM38	24.38	45.59	0.5	24
2009	WS	BG	NM01	25.64	27.11	0.25	12
2009	WS	BG	NM02	25.64	28.04	0.25	12
2009	WS	BG	NM03	25.64	28.94	0.25	12
2009	WS	BG	ES01	25.64	29.08	0.027	0.202
2009	WS	BG	EU02	25.64	29.33	0.012	0.062
2009	WS	BG	NM04	25.64	29.86	0.25	12
2009	WS	BG	NM05	25.64	30.77	0.25	12
2009	WS	BG	NM06	25.64	31.69	0.25	12
2009	WS	BG	NM07	25.64	32.61	0.25	12
2009	WS	BG	NM08	25.64	33.52	0.25	12
2009	WS	BG	NM09	25.64	34.43	0.25	12
2009	WS	BG	NM10	25.64	35.35	0.25	12
2009	WS	BG	NM11	25.64	36.26	0.25	12
2009	WS	BG	NM12	25.64	37.19	0.25	12
2009	WS	BG	NM13	25.64	38.09	0.25	12
2009	WS	BG	NM14	25.64	39.02	0.25	12
2009	WS	BG	NM15	25.64	39.92	0.25	12
2009	WS	BG	NM16	25.64	40.84	0.25	12
2009	WS	BG	NM17	25.64	41.75	0.25	12
2009	WS	BG	NM18	25.64	42.67	0.25	12
2009	WS	BG	NM19	25.64	43.59	0.25	12
2009	WS	BG	NM20	25.64	44.5	0.25	12
2009	WS	BH	NM01	25.52	27.11	0.25	12
2009	WS	BH	NM02	25.52	30.77	0.25	12
2009	WS	BH	NM03	25.52	34.43	0.25	12
2009	WS	BH	NM04	25.52	38.09	0.25	12
2009	WS	BH	NM05	25.52	41.75	0.25	12
2010	WS	BB	EU01	24.73	26.66	0.862	9.682
2010	WS	BB	EU02	24.73	27.61	0.2	2.247
2010	WS	BB	ES03	24.73	28.97	15.971	157.435
2010	WS	BB	EU04	24.73	29.21	6.83	76.682
2010	WS	BB	NM01	24.73	30.83	0.25	12
2010	WS	BB	NM02	24.73	31.67	0.25	12
2010	WS	BB	NM03	24.73	32.51	0.25	12
2010	WS	BB	NM04	24.73	33.34	0.25	12
2010	WS	BB	NM05	24.73	34.17	0.25	12
2010	WS	BB	NM06	24.73	35	0.25	12
2010	WS	BB	NM07	24.73	35.83	0.25	12
2010	WS	BB	NM08	24.73	36.66	0.25	12
2010	WS	BB	NM09	24.73	37.49	0.25	12
2010	WS	BB	NM10	24.73	38.33	0.25	12
2010	WS	BB	NM11	24.73	39.15	0.25	12
2010	WS	BB	NM12	24.73	40	0.25	12
2010	WS	BB	NM13	24.73	40.82	0.25	12
2010	WS	BB	NM14	24.73	41.66	0.25	12
2010	WS	BB	NM15	24.73	42.48	0.25	12
2010	WS	BB	NM16	24.73	43.32	0.25	12
2010	WS	BB	NM17	24.73	44.14	0.25	12
2010	WS	BB	NM18	24.73	44.98	0.25	12

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	WS	BB	NM19	24.73	45.81	0.25	12
2010	WS	BB	NM20	24.73	46.64	0.25	12
2010	WS	BB	NM21	24.73	47.48	0.25	12
2010	WS	BB	NM22	24.73	48.31	0.25	12
2010	WS	BB	NM23	24.73	49.14	0.25	12
2010	WS	BB	NM24	24.73	49.97	0.25	12
2010	WS	BB	NM25	24.73	50.8	0.25	12
2010	WS	BD	NM01	24.64	25.64	2	96
2010	WS	BD	NM02	24.64	26.1	2	96
2010	WS	BD	NM03	24.64	26.55	2	96
2010	WS	BD	EU01	24.64	26.66	0.174	2.537
2010	WS	BD	NM04	24.64	27.01	2	96
2010	WS	BD	NM05	24.64	27.47	2	96
2010	WS	BD	EU02	24.64	27.61	1.756	25.577
2010	WS	BD	NM06	24.64	27.92	2	96
2010	WS	BD	NM07	24.64	28.38	2	96
2010	WS	BD	NM08	24.64	28.84	2	96
2010	WS	BD	ES01	24.64	28.97	16.209	260.138
2010	WS	BD	EU03	24.64	29.21	8.488	123.623
2010	WS	BD	NM09	24.64	29.3	2	96
2010	WS	BD	NM10	24.64	29.76	2	96
2010	WS	BD	NM11	24.64	30.21	2	96
2010	WS	BD	NM12	24.64	30.68	2	96
2010	WS	BD	EU04	24.64	30.8	0.606	8.83
2010	WS	BD	NM13	24.64	31.14	2	96
2010	WS	BD	NM14	24.64	31.59	2	96
2010	WS	BD	NM15	24.64	32.05	2	96
2010	WS	BD	NM16	24.64	32.51	2	96
2010	WS	BD	NM17	24.64	32.96	2	96
2010	WS	BD	NM18	24.64	33.42	2	96
2010	WS	BD	NM19	24.64	33.88	2	96
2010	WS	BD	NM20	24.64	34.33	2	96
2010	WS	BD	NM21	24.64	34.8	2	96
2010	WS	BD	NM22	24.64	35.26	2	96
2010	WS	BD	NM23	24.64	35.72	2	96
2010	WS	BD	NM24	24.64	36.17	2	96
2010	WS	BD	NM25	24.64	36.63	2	96
2010	WS	BD	NM26	24.64	37.09	2	96
2010	WS	BD	NM27	24.64	37.55	2	96
2010	WS	BD	NM28	24.64	38	2	96
2010	WS	BD	NM29	24.64	38.46	2	96
2010	WS	BD	NM30	24.64	38.93	2	96
2010	WS	BD	NM31	24.64	39.38	2	96
2010	WS	BD	NM32	24.64	39.84	2	96
2010	WS	BD	NM33	24.64	40.3	2	96
2010	WS	BD	NM34	24.64	40.76	2	96
2010	WS	BD	NM35	24.64	41.21	2	96
2010	WS	BD	NM36	24.64	41.67	2	96
2010	WS	BD	NM37	24.64	42.13	2	96
2010	WS	BD	NM38	24.64	42.47	1	48
2010	WS	BE	NM01	24.38	27.49	1	48
2010	WS	BE	NM02	24.38	27.98	1	48
2010	WS	BE	NM03	24.38	28.46	1	48
2010	WS	BE	NM04	24.38	28.95	1	48
2010	WS	BE	ES01	24.38	28.97	9.653	153.763
2010	WS	BE	EU01	24.38	29.21	6.535	94.603
2010	WS	BE	NM05	24.38	29.44	1	48
2010	WS	BE	NM06	24.38	29.92	1	48
2010	WS	BE	NM07	24.38	30.41	1	48
2010	WS	BE	NM08	24.38	30.9	1	48
2010	WS	BE	NM09	24.38	31.39	1	48
2010	WS	BE	NM10	24.38	31.88	1	48
2010	WS	BE	NM11	24.38	32.37	1	48
2010	WS	BE	NM12	24.38	32.86	1	48
2010	WS	BE	NM13	24.38	33.34	1	48
2010	WS	BE	NM14	24.38	33.83	1	48
2010	WS	BE	NM15	24.38	34.31	1	48
2010	WS	BE	NM16	24.38	34.8	1	48
2010	WS	BE	NM17	24.38	35.29	1	48
2010	WS	BE	NM18	24.38	35.78	1	48
2010	WS	BE	NM19	24.38	36.27	1	48
2010	WS	BE	NM20	24.38	36.76	1	48
2010	WS	BE	NM21	24.38	37.26	1	48
2010	WS	BE	NM22	24.38	37.73	1	48
2010	WS	BE	NM23	24.38	38.23	1	48
2010	WS	BE	NM24	24.38	38.72	1	48
2010	WS	BE	NM25	24.38	39.19	1	48

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2010	WS	BE	NM26	24.38	39.69	1	48
2010	WS	BE	NM27	24.38	40.18	1	48
2010	WS	BE	NM28	24.38	40.67	1	48
2010	WS	BE	NM29	24.38	41.16	1	48
2010	WS	BE	NM30	24.38	41.64	1	48
2010	WS	BE	NM31	24.38	42.13	1	48
2010	WS	BE	NM32	24.38	42.62	1	48
2010	WS	BE	NM33	24.38	43.11	1	48
2010	WS	BE	NM34	24.38	43.59	1	48
2010	WS	BE	NM35	24.38	44.08	1	48
2010	WS	BE	NM36	24.38	44.57	1	48
2010	WS	BE	NM37	24.38	45.06	1	48
2010	WS	BE	NM38	24.38	45.42	0.5	24
2010	WS	BG	NM01	25.64	27	0.25	12
2010	WS	BG	NM02	25.64	27.92	0.25	12
2010	WS	BG	NM03	25.64	28.83	0.25	12
2010	WS	BG	ES01	25.64	28.97	0.027	0.202
2010	WS	BG	EU02	25.64	29.21	0.012	0.062
2010	WS	BG	NM04	25.64	29.74	0.25	12
2010	WS	BG	NM05	25.64	30.64	0.25	12
2010	WS	BG	NM06	25.64	31.57	0.25	12
2010	WS	BG	NM07	25.64	32.47	0.25	12
2010	WS	BG	NM08	25.64	33.39	0.25	12
2010	WS	BG	NM09	25.64	34.29	0.25	12
2010	WS	BG	NM10	25.64	35.22	0.25	12
2010	WS	BG	NM11	25.64	36.12	0.25	12
2010	WS	BG	NM12	25.64	37.03	0.25	12
2010	WS	BG	NM13	25.64	37.94	0.25	12
2010	WS	BG	NM14	25.64	38.86	0.25	12
2010	WS	BG	NM15	25.64	39.76	0.25	12
2010	WS	BG	NM16	25.64	40.68	0.25	12
2010	WS	BG	NM17	25.64	41.59	0.25	12
2010	WS	BG	NM18	25.64	42.51	0.25	12
2010	WS	BG	NM19	25.64	43.41	0.25	12
2010	WS	BG	NM20	25.64	44.32	0.25	12
2010	WS	BH	NM01	25.52	27	0.25	12
2010	WS	BH	NM02	25.52	30.64	0.25	12
2010	WS	BH	NM03	25.52	34.29	0.25	12
2010	WS	BH	NM04	25.52	37.94	0.25	12
2010	WS	BH	NM05	25.52	41.59	0.25	12
2015	WS	BB	EU01	24.73	26.14	0.862	9.682
2015	WS	BB	EU02	24.73	27.07	0.2	2.247
2015	WS	BB	ES03	24.73	28.39	15.971	157.435
2015	WS	BB	EU04	24.73	28.63	6.83	76.682
2015	WS	BB	NM01	24.73	30.22	0.25	12
2015	WS	BB	NM02	24.73	31.05	0.25	12
2015	WS	BB	NM03	24.73	31.86	0.25	12
2015	WS	BB	NM04	24.73	32.67	0.25	12
2015	WS	BB	NM05	24.73	33.49	0.25	12
2015	WS	BB	NM06	24.73	34.31	0.25	12
2015	WS	BB	NM07	24.73	35.11	0.25	12
2015	WS	BB	NM08	24.73	35.94	0.25	12
2015	WS	BB	NM09	24.73	36.75	0.25	12
2015	WS	BB	NM10	24.73	37.57	0.25	12
2015	WS	BB	NM11	24.73	38.38	0.25	12
2015	WS	BB	NM12	24.73	39.19	0.25	12
2015	WS	BB	NM13	24.73	40.01	0.25	12
2015	WS	BB	NM14	24.73	40.83	0.25	12
2015	WS	BB	NM15	24.73	41.64	0.25	12
2015	WS	BB	NM16	24.73	42.46	0.25	12
2015	WS	BB	NM17	24.73	43.27	0.25	12
2015	WS	BB	NM18	24.73	44.09	0.25	12
2015	WS	BB	NM19	24.73	44.9	0.25	12
2015	WS	BB	NM20	24.73	45.72	0.25	12
2015	WS	BB	NM21	24.73	46.53	0.25	12
2015	WS	BB	NM22	24.73	47.35	0.25	12
2015	WS	BB	NM23	24.73	48.16	0.25	12
2015	WS	BB	NM24	24.73	48.98	0.25	12
2015	WS	BB	NM25	24.73	49.8	0.25	12
2015	WS	BD	NM01	24.64	25.13	2	96
2015	WS	BD	NM02	24.64	25.57	2	96
2015	WS	BD	NM03	24.64	26.02	2	96
2015	WS	BD	NM04	24.64	26.48	2	96
2015	WS	BD	NM05	24.64	26.92	2	96
2015	WS	BD	EU01	24.64	26.99	0.174	2.537
2015	WS	BD	NM06	24.64	27.38	2	96
2015	WS	BD	NM07	24.64	27.82	2	96

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	WS	BD	NM08	24.64	28.27	2	96
2015	WS	BD	ES01	24.64	28.39	16.209	260.138
2015	WS	BD	EU02	24.64	28.63	1.756	25.577
2015	WS	BD	NM09	24.64	28.72	2	96
2015	WS	BD	NM10	24.64	29.16	2	96
2015	WS	BD	NM11	24.64	29.62	2	96
2015	WS	BD	NM12	24.64	30.06	2	96
2015	WS	BD	EU03	24.64	30.19	8.488	123.623
2015	WS	BD	NM13	24.64	30.52	2	96
2015	WS	BD	NM14	24.64	30.97	2	96
2015	WS	BD	NM15	24.64	31.41	2	96
2015	WS	BD	EU04	24.64	31.83	0.606	8.83
2015	WS	BD	NM16	24.64	31.86	2	96
2015	WS	BD	NM17	24.64	32.31	2	96
2015	WS	BD	NM18	24.64	32.76	2	96
2015	WS	BD	NM19	24.64	33.21	2	96
2015	WS	BD	NM20	24.64	33.67	2	96
2015	WS	BD	NM21	24.64	34.11	2	96
2015	WS	BD	NM22	24.64	34.56	2	96
2015	WS	BD	NM23	24.64	35	2	96
2015	WS	BD	NM24	24.64	35.45	2	96
2015	WS	BD	NM25	24.64	35.91	2	96
2015	WS	BD	NM26	24.64	36.35	2	96
2015	WS	BD	NM27	24.64	36.81	2	96
2015	WS	BD	NM28	24.64	37.26	2	96
2015	WS	BD	NM29	24.64	37.7	2	96
2015	WS	BD	NM30	24.64	38.15	2	96
2015	WS	BD	NM31	24.64	38.59	2	96
2015	WS	BD	NM32	24.64	39.05	2	96
2015	WS	BD	NM33	24.64	39.5	2	96
2015	WS	BD	NM34	24.64	39.95	2	96
2015	WS	BD	NM35	24.64	40.4	2	96
2015	WS	BD	NM36	24.64	40.84	2	96
2015	WS	BD	NM37	24.64	41.29	2	96
2015	WS	BD	NM38	24.64	41.63	1	48
2015	WS	BE	NM01	24.38	26.94	1	48
2015	WS	BE	NM02	24.38	27.42	1	48
2015	WS	BE	NM03	24.38	27.89	1	48
2015	WS	BE	NM04	24.38	28.38	1	48
2015	WS	BE	ES01	24.38	28.39	9.653	153.763
2015	WS	BE	EU01	24.38	28.63	6.535	94.603
2015	WS	BE	NM05	24.38	28.85	1	48
2015	WS	BE	NM06	24.38	29.34	1	48
2015	WS	BE	NM07	24.38	29.81	1	48
2015	WS	BE	NM08	24.38	30.29	1	48
2015	WS	BE	NM09	24.38	30.77	1	48
2015	WS	BE	NM10	24.38	31.25	1	48
2015	WS	BE	NM11	24.38	31.73	1	48
2015	WS	BE	NM12	24.38	32.21	1	48
2015	WS	BE	NM13	24.38	32.68	1	48
2015	WS	BE	NM14	24.38	33.15	1	48
2015	WS	BE	NM15	24.38	33.64	1	48
2015	WS	BE	NM16	24.38	34.11	1	48
2015	WS	BE	NM17	24.38	34.6	1	48
2015	WS	BE	NM18	24.38	35.07	1	48
2015	WS	BE	NM19	24.38	35.55	1	48
2015	WS	BE	NM20	24.38	36.03	1	48
2015	WS	BE	NM21	24.38	36.51	1	48
2015	WS	BE	NM22	24.38	36.99	1	48
2015	WS	BE	NM23	24.38	37.47	1	48
2015	WS	BE	NM24	24.38	37.95	1	48
2015	WS	BE	NM25	24.38	38.43	1	48
2015	WS	BE	NM26	24.38	38.91	1	48
2015	WS	BE	NM27	24.38	39.38	1	48
2015	WS	BE	NM28	24.38	39.86	1	48
2015	WS	BE	NM29	24.38	40.33	1	48
2015	WS	BE	NM30	24.38	40.82	1	48
2015	WS	BE	NM31	24.38	41.29	1	48
2015	WS	BE	NM32	24.38	41.77	1	48
2015	WS	BE	NM33	24.38	42.25	1	48
2015	WS	BE	NM34	24.38	42.73	1	48
2015	WS	BE	NM35	24.38	43.21	1	48
2015	WS	BE	NM36	24.38	43.69	1	48
2015	WS	BE	NM37	24.38	44.17	1	48
2015	WS	BE	NM38	24.38	44.52	0.5	24
2015	WS	BG	NM01	25.64	26.46	0.25	12
2015	WS	BG	NM02	25.64	27.37	0.25	12

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2015	WS	BG	NM03	25.64	28.26	0.25	12
2015	WS	BG	ES01	25.64	28.39	0.027	0.202
2015	WS	BG	EU02	25.64	28.63	0.012	0.062
2015	WS	BG	NM04	25.64	29.15	0.25	12
2015	WS	BG	NM05	25.64	30.04	0.25	12
2015	WS	BG	NM06	25.64	30.93	0.25	12
2015	WS	BG	NM07	25.64	31.83	0.25	12
2015	WS	BG	NM08	25.64	32.73	0.25	12
2015	WS	BG	NM09	25.64	33.61	0.25	12
2015	WS	BG	NM10	25.64	34.51	0.25	12
2015	WS	BG	NM11	25.64	35.4	0.25	12
2015	WS	BG	NM12	25.64	36.3	0.25	12
2015	WS	BG	NM13	25.64	37.19	0.25	12
2015	WS	BG	NM14	25.64	38.09	0.25	12
2015	WS	BG	NM15	25.64	38.97	0.25	12
2015	WS	BG	NM16	25.64	39.87	0.25	12
2015	WS	BG	NM17	25.64	40.76	0.25	12
2015	WS	BG	NM18	25.64	41.66	0.25	12
2015	WS	BG	NM19	25.64	42.55	0.25	12
2015	WS	BG	NM20	25.64	43.44	0.25	12
2015	WS	BH	NM01	25.52	26.46	0.25	12
2015	WS	BH	NM02	25.52	30.04	0.25	12
2015	WS	BH	NM03	25.52	33.61	0.25	12
2015	WS	BH	NM04	25.52	37.19	0.25	12
2015	WS	BH	NM05	25.52	40.76	0.25	12
2020	WS	BB	EU01	24.73	25.62	0.862	9.682
2020	WS	BB	EU02	24.73	26.53	0.2	2.247
2020	WS	BB	ES03	24.73	27.84	15.971	157.435
2020	WS	BB	EU04	24.73	28.06	6.83	76.682
2020	WS	BB	NM01	24.73	29.63	0.25	12
2020	WS	BB	NM02	24.73	30.43	0.25	12
2020	WS	BB	NM03	24.73	31.22	0.25	12
2020	WS	BB	NM04	24.73	32.03	0.25	12
2020	WS	BB	NM05	24.73	32.82	0.25	12
2020	WS	BB	NM06	24.73	33.63	0.25	12
2020	WS	BB	NM07	24.73	34.42	0.25	12
2020	WS	BB	NM08	24.73	35.23	0.25	12
2020	WS	BB	NM09	24.73	36.02	0.25	12
2020	WS	BB	NM10	24.73	36.82	0.25	12
2020	WS	BB	NM11	24.73	37.61	0.25	12
2020	WS	BB	NM12	24.73	38.43	0.25	12
2020	WS	BB	NM13	24.73	39.22	0.25	12
2020	WS	BB	NM14	24.73	40.02	0.25	12
2020	WS	BB	NM15	24.73	40.81	0.25	12
2020	WS	BB	NM16	24.73	41.61	0.25	12
2020	WS	BB	NM17	24.73	42.42	0.25	12
2020	WS	BB	NM18	24.73	43.22	0.25	12
2020	WS	BB	NM19	24.73	44.01	0.25	12
2020	WS	BB	NM20	24.73	44.81	0.25	12
2020	WS	BB	NM21	24.73	45.6	0.25	12
2020	WS	BB	NM22	24.73	46.41	0.25	12
2020	WS	BB	NM23	24.73	47.21	0.25	12
2020	WS	BB	NM24	24.73	48.01	0.25	12
2020	WS	BB	NM25	24.73	48.8	0.25	12
2020	WS	BD	NM01	24.64	24.62	2	96
2020	WS	BD	NM02	24.64	25.07	2	96
2020	WS	BD	NM03	24.64	25.51	2	96
2020	WS	BD	NM04	24.64	25.95	2	96
2020	WS	BD	NM05	24.64	26.39	2	96
2020	WS	BD	EU01	24.64	26.45	0.174	2.537
2020	WS	BD	NM06	24.64	26.83	2	96
2020	WS	BD	NM07	24.64	27.27	2	96
2020	WS	BD	NM08	24.64	27.71	2	96
2020	WS	BD	ES01	24.64	27.84	16.209	260.138
2020	WS	BD	EU02	24.64	28.06	1.756	25.577
2020	WS	BD	NM09	24.64	28.15	2	96
2020	WS	BD	NM10	24.64	28.59	2	96
2020	WS	BD	NM11	24.64	29.03	2	96
2020	WS	BD	NM12	24.64	29.47	2	96
2020	WS	BD	EU03	24.64	29.59	8.488	123.623
2020	WS	BD	NM13	24.64	29.91	2	96
2020	WS	BD	NM14	24.64	30.34	2	96
2020	WS	BD	NM15	24.64	30.79	2	96
2020	WS	BD	EU04	24.64	31.2	0.606	8.83
2020	WS	BD	NM16	24.64	31.24	2	96
2020	WS	BD	NM17	24.64	31.67	2	96
2020	WS	BD	NM18	24.64	32.1	2	96

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	WS	BD	NM19	24.64	32.55	2	96
2020	WS	BD	NM20	24.64	32.99	2	96
2020	WS	BD	NM21	24.64	33.43	2	96
2020	WS	BD	NM22	24.64	33.87	2	96
2020	WS	BD	NM23	24.64	34.31	2	96
2020	WS	BD	NM24	24.64	34.75	2	96
2020	WS	BD	NM25	24.64	35.19	2	96
2020	WS	BD	NM26	24.64	35.63	2	96
2020	WS	BD	NM27	24.64	36.07	2	96
2020	WS	BD	NM28	24.64	36.51	2	96
2020	WS	BD	NM29	24.64	36.95	2	96
2020	WS	BD	NM30	24.64	37.39	2	96
2020	WS	BD	NM31	24.64	37.83	2	96
2020	WS	BD	NM32	24.64	38.27	2	96
2020	WS	BD	NM33	24.64	38.72	2	96
2020	WS	BD	NM34	24.64	39.15	2	96
2020	WS	BD	NM35	24.64	39.6	2	96
2020	WS	BD	NM36	24.64	40.03	2	96
2020	WS	BD	NM37	24.64	40.48	2	96
2020	WS	BD	NM38	24.64	40.8	1	48
2020	WS	BE	NM01	24.38	26.41	1	48
2020	WS	BE	NM02	24.38	26.88	1	48
2020	WS	BE	NM03	24.38	27.34	1	48
2020	WS	BE	NM04	24.38	27.81	1	48
2020	WS	BE	ES01	24.38	27.84	9.653	153.763
2020	WS	BE	EU01	24.38	28.06	6.535	94.603
2020	WS	BE	NM05	24.38	28.28	1	48
2020	WS	BE	NM06	24.38	28.75	1	48
2020	WS	BE	NM07	24.38	29.22	1	48
2020	WS	BE	NM08	24.38	29.69	1	48
2020	WS	BE	NM09	24.38	30.15	1	48
2020	WS	BE	NM10	24.38	30.63	1	48
2020	WS	BE	NM11	24.38	31.1	1	48
2020	WS	BE	NM12	24.38	31.57	1	48
2020	WS	BE	NM13	24.38	32.04	1	48
2020	WS	BE	NM14	24.38	32.51	1	48
2020	WS	BE	NM15	24.38	32.97	1	48
2020	WS	BE	NM16	24.38	33.44	1	48
2020	WS	BE	NM17	24.38	33.91	1	48
2020	WS	BE	NM18	24.38	34.38	1	48
2020	WS	BE	NM19	24.38	34.85	1	48
2020	WS	BE	NM20	24.38	35.32	1	48
2020	WS	BE	NM21	24.38	35.78	1	48
2020	WS	BE	NM22	24.38	36.25	1	48
2020	WS	BE	NM23	24.38	36.72	1	48
2020	WS	BE	NM24	24.38	37.19	1	48
2020	WS	BE	NM25	24.38	37.66	1	48
2020	WS	BE	NM26	24.38	38.12	1	48
2020	WS	BE	NM27	24.38	38.59	1	48
2020	WS	BE	NM28	24.38	39.06	1	48
2020	WS	BE	NM29	24.38	39.54	1	48
2020	WS	BE	NM30	24.38	40.01	1	48
2020	WS	BE	NM31	24.38	40.48	1	48
2020	WS	BE	NM32	24.38	40.95	1	48
2020	WS	BE	NM33	24.38	41.41	1	48
2020	WS	BE	NM34	24.38	41.88	1	48
2020	WS	BE	NM35	24.38	42.35	1	48
2020	WS	BE	NM36	24.38	42.82	1	48
2020	WS	BE	NM37	24.38	43.29	1	48
2020	WS	BE	NM38	24.38	43.64	0.5	24
2020	WS	BG	NM01	25.64	25.94	0.25	12
2020	WS	BG	NM02	25.64	26.82	0.25	12
2020	WS	BG	NM03	25.64	27.69	0.25	12
2020	WS	BG	ES01	25.64	27.84	0.027	0.202
2020	WS	BG	EU02	25.64	28.06	0.012	0.062
2020	WS	BG	NM04	25.64	28.57	0.25	12
2020	WS	BG	NM05	25.64	29.44	0.25	12
2020	WS	BG	NM06	25.64	30.32	0.25	12
2020	WS	BG	NM07	25.64	31.19	0.25	12
2020	WS	BG	NM08	25.64	32.07	0.25	12
2020	WS	BG	NM09	25.64	32.95	0.25	12
2020	WS	BG	NM10	25.64	33.83	0.25	12
2020	WS	BG	NM11	25.64	34.7	0.25	12
2020	WS	BG	NM12	25.64	35.58	0.25	12
2020	WS	BG	NM13	25.64	36.45	0.25	12
2020	WS	BG	NM14	25.64	37.33	0.25	12
2020	WS	BG	NM15	25.64	38.2	0.25	12

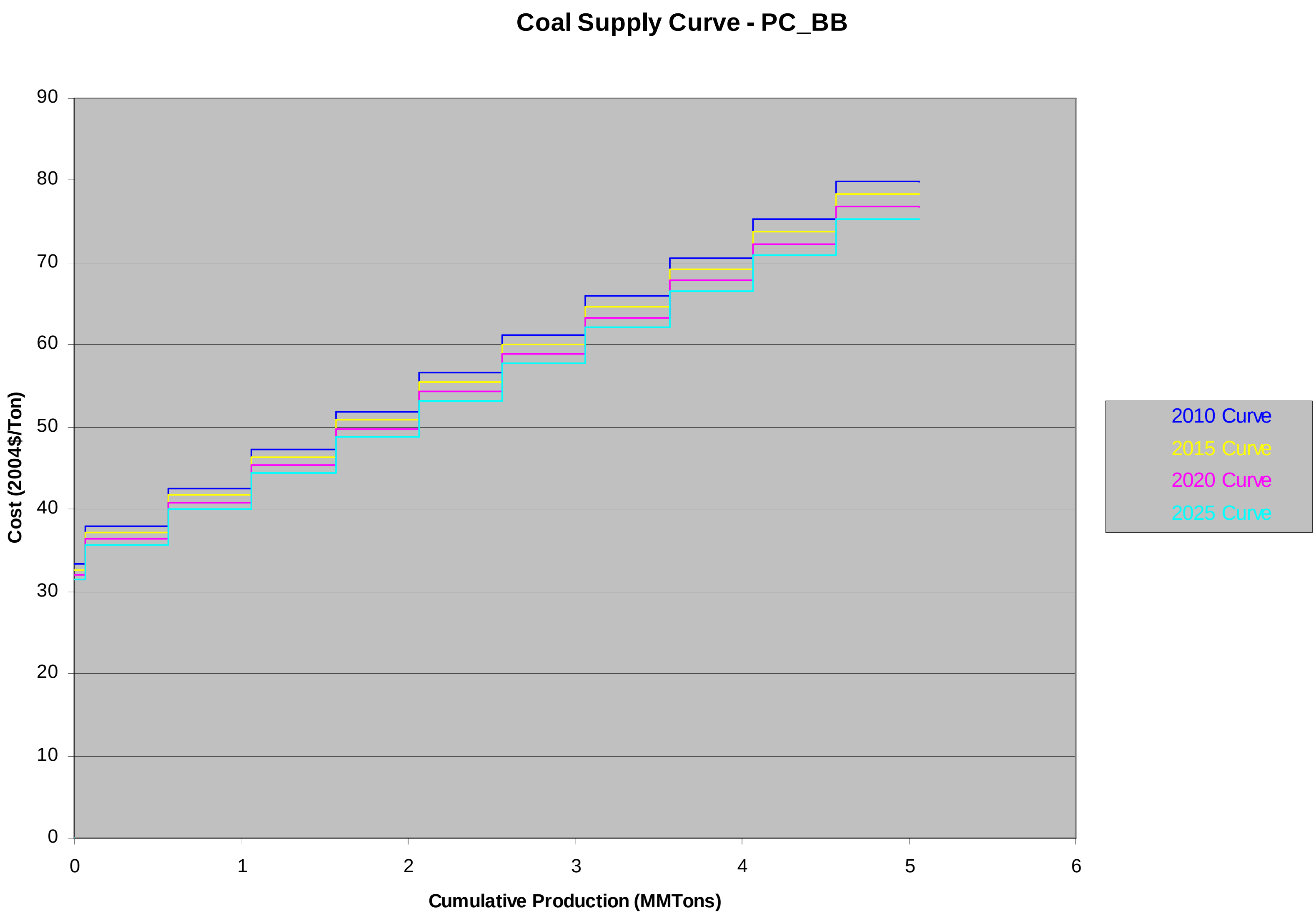
Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2020	WS	BG	NM16	25.64	39.08	0.25	12
2020	WS	BG	NM17	25.64	39.95	0.25	12
2020	WS	BG	NM18	25.64	40.83	0.25	12
2020	WS	BG	NM19	25.64	41.7	0.25	12
2020	WS	BG	NM20	25.64	42.58	0.25	12
2020	WS	BH	NM01	25.52	25.94	0.25	12
2020	WS	BH	NM02	25.52	29.44	0.25	12
2020	WS	BH	NM03	25.52	32.95	0.25	12
2020	WS	BH	NM04	25.52	36.45	0.25	12
2020	WS	BH	NM05	25.52	39.95	0.25	12
2025	WS	BB	EU01	24.73	25.1	0.862	9.682
2025	WS	BB	EU02	24.73	26.01	0.2	2.247
2025	WS	BB	ES03	24.73	27.28	15.971	157.435
2025	WS	BB	EU04	24.73	27.5	6.83	76.682
2025	WS	BB	NM01	24.73	29.04	0.25	12
2025	WS	BB	NM02	24.73	29.83	0.25	12
2025	WS	BB	NM03	24.73	30.6	0.25	12
2025	WS	BB	NM04	24.73	31.39	0.25	12
2025	WS	BB	NM05	24.73	32.17	0.25	12
2025	WS	BB	NM06	24.73	32.96	0.25	12
2025	WS	BB	NM07	24.73	33.74	0.25	12
2025	WS	BB	NM08	24.73	34.52	0.25	12
2025	WS	BB	NM09	24.73	35.3	0.25	12
2025	WS	BB	NM10	24.73	36.1	0.25	12
2025	WS	BB	NM11	24.73	36.88	0.25	12
2025	WS	BB	NM12	24.73	37.66	0.25	12
2025	WS	BB	NM13	24.73	38.44	0.25	12
2025	WS	BB	NM14	24.73	39.23	0.25	12
2025	WS	BB	NM15	24.73	40.01	0.25	12
2025	WS	BB	NM16	24.73	40.79	0.25	12
2025	WS	BB	NM17	24.73	41.57	0.25	12
2025	WS	BB	NM18	24.73	42.36	0.25	12
2025	WS	BB	NM19	24.73	43.14	0.25	12
2025	WS	BB	NM20	24.73	43.92	0.25	12
2025	WS	BB	NM21	24.73	44.7	0.25	12
2025	WS	BB	NM22	24.73	45.49	0.25	12
2025	WS	BB	NM23	24.73	46.27	0.25	12
2025	WS	BB	NM24	24.73	47.05	0.25	12
2025	WS	BB	NM25	24.73	47.83	0.25	12
2025	WS	BD	NM01	24.64	24.15	2	96
2025	WS	BD	NM02	24.64	24.57	2	96
2025	WS	BD	NM03	24.64	24.99	2	96
2025	WS	BD	NM04	24.64	25.44	2	96
2025	WS	BD	NM05	24.64	25.86	2	96
2025	WS	BD	EU01	24.64	25.93	0.174	2.537
2025	WS	BD	NM06	24.64	26.3	2	96
2025	WS	BD	NM07	24.64	26.73	2	96
2025	WS	BD	NM08	24.64	27.16	2	96
2025	WS	BD	ES01	24.64	27.28	16.209	260.138
2025	WS	BD	EU02	24.64	27.5	1.756	25.577
2025	WS	BD	NM09	24.64	27.59	2	96
2025	WS	BD	NM10	24.64	28.02	2	96
2025	WS	BD	NM11	24.64	28.45	2	96
2025	WS	BD	NM12	24.64	28.88	2	96
2025	WS	BD	EU03	24.64	29.01	8.488	123.623
2025	WS	BD	NM13	24.64	29.32	2	96
2025	WS	BD	NM14	24.64	29.74	2	96
2025	WS	BD	NM15	24.64	30.18	2	96
2025	WS	BD	EU04	24.64	30.59	0.606	8.83
2025	WS	BD	NM16	24.64	30.61	2	96
2025	WS	BD	NM17	24.64	31.03	2	96
2025	WS	BD	NM18	24.64	31.48	2	96
2025	WS	BD	NM19	24.64	31.9	2	96
2025	WS	BD	NM20	24.64	32.33	2	96
2025	WS	BD	NM21	24.64	32.77	2	96
2025	WS	BD	NM22	24.64	33.2	2	96
2025	WS	BD	NM23	24.64	33.63	2	96
2025	WS	BD	NM24	24.64	34.07	2	96
2025	WS	BD	NM25	24.64	34.49	2	96
2025	WS	BD	NM26	24.64	34.93	2	96
2025	WS	BD	NM27	24.64	35.36	2	96
2025	WS	BD	NM28	24.64	35.78	2	96
2025	WS	BD	NM29	24.64	36.22	2	96
2025	WS	BD	NM30	24.64	36.65	2	96
2025	WS	BD	NM31	24.64	37.08	2	96
2025	WS	BD	NM32	24.64	37.51	2	96
2025	WS	BD	NM33	24.64	37.95	2	96

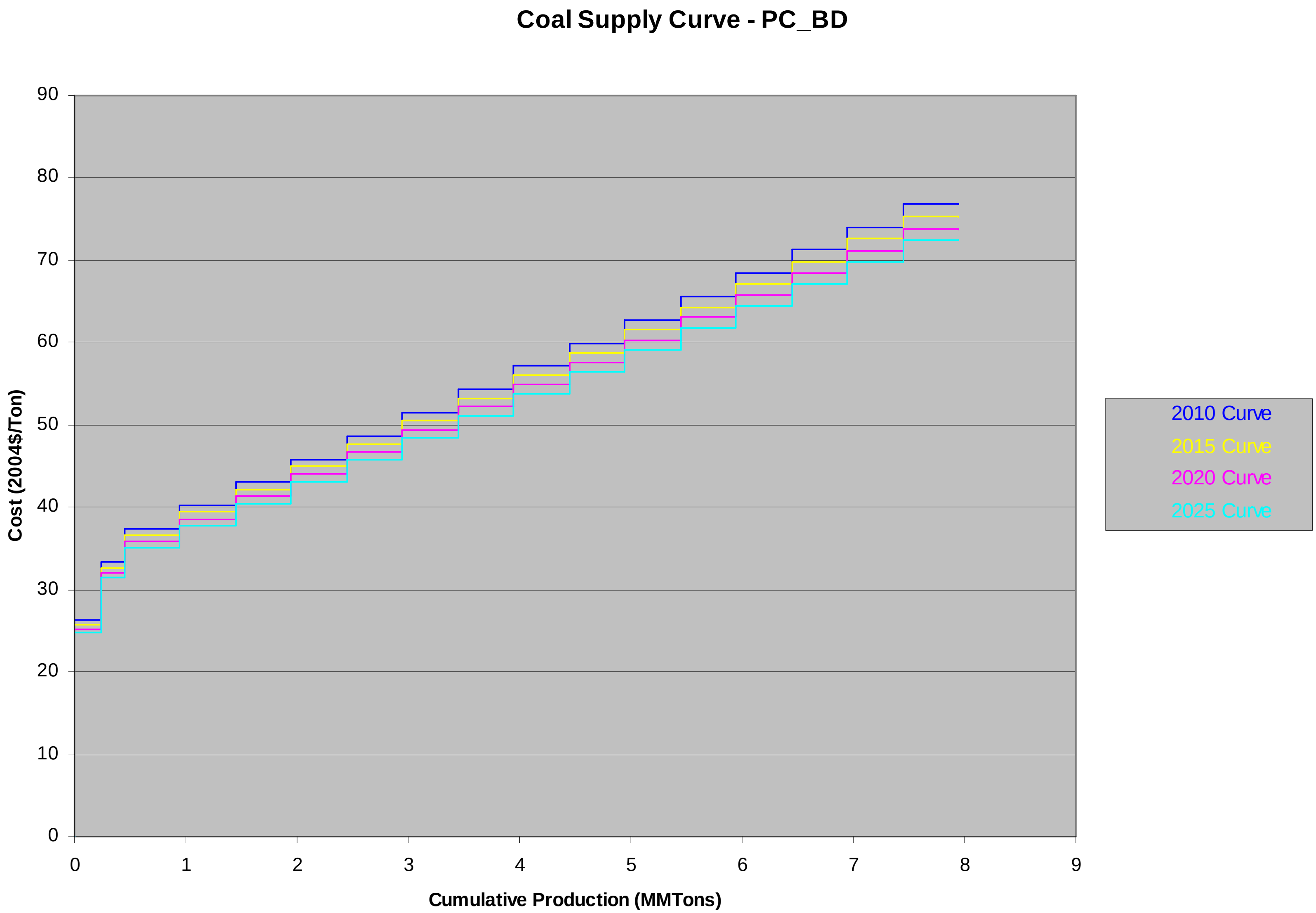
Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2025	WS	BD	NM34	24.64	38.37	2	96
2025	WS	BD	NM35	24.64	38.82	2	96
2025	WS	BD	NM36	24.64	39.24	2	96
2025	WS	BD	NM37	24.64	39.66	2	96
2025	WS	BD	NM38	24.64	40	1	48
2025	WS	BE	NM01	24.38	25.88	1	48
2025	WS	BE	NM02	24.38	26.34	1	48
2025	WS	BE	NM03	24.38	26.8	1	48
2025	WS	BE	NM04	24.38	27.27	1	48
2025	WS	BE	ES01	24.38	27.28	9.653	153.763
2025	WS	BE	EU01	24.38	27.5	6.535	94.603
2025	WS	BE	NM05	24.38	27.71	1	48
2025	WS	BE	NM06	24.38	28.18	1	48
2025	WS	BE	NM07	24.38	28.65	1	48
2025	WS	BE	NM08	24.38	29.1	1	48
2025	WS	BE	NM09	24.38	29.56	1	48
2025	WS	BE	NM10	24.38	30.01	1	48
2025	WS	BE	NM11	24.38	30.48	1	48
2025	WS	BE	NM12	24.38	30.95	1	48
2025	WS	BE	NM13	24.38	31.39	1	48
2025	WS	BE	NM14	24.38	31.86	1	48
2025	WS	BE	NM15	24.38	32.32	1	48
2025	WS	BE	NM16	24.38	32.77	1	48
2025	WS	BE	NM17	24.38	33.24	1	48
2025	WS	BE	NM18	24.38	33.69	1	48
2025	WS	BE	NM19	24.38	34.16	1	48
2025	WS	BE	NM20	24.38	34.62	1	48
2025	WS	BE	NM21	24.38	35.07	1	48
2025	WS	BE	NM22	24.38	35.54	1	48
2025	WS	BE	NM23	24.38	35.98	1	48
2025	WS	BE	NM24	24.38	36.45	1	48
2025	WS	BE	NM25	24.38	36.92	1	48
2025	WS	BE	NM26	24.38	37.37	1	48
2025	WS	BE	NM27	24.38	37.83	1	48
2025	WS	BE	NM28	24.38	38.29	1	48
2025	WS	BE	NM29	24.38	38.75	1	48
2025	WS	BE	NM30	24.38	39.21	1	48
2025	WS	BE	NM31	24.38	39.66	1	48
2025	WS	BE	NM32	24.38	40.12	1	48
2025	WS	BE	NM33	24.38	40.6	1	48
2025	WS	BE	NM34	24.38	41.06	1	48
2025	WS	BE	NM35	24.38	41.51	1	48
2025	WS	BE	NM36	24.38	41.97	1	48
2025	WS	BE	NM37	24.38	42.43	1	48
2025	WS	BE	NM38	24.38	42.77	0.5	24
2025	WS	BG	NM01	25.64	25.43	0.25	12
2025	WS	BG	NM02	25.64	26.29	0.25	12
2025	WS	BG	NM03	25.64	27.14	0.25	12
2025	WS	BG	ES01	25.64	27.28	0.027	0.202
2025	WS	BG	EU02	25.64	27.5	0.012	0.062
2025	WS	BG	NM04	25.64	28	0.25	12
2025	WS	BG	NM05	25.64	28.86	0.25	12
2025	WS	BG	NM06	25.64	29.72	0.25	12
2025	WS	BG	NM07	25.64	30.58	0.25	12
2025	WS	BG	NM08	25.64	31.44	0.25	12
2025	WS	BG	NM09	25.64	32.29	0.25	12
2025	WS	BG	NM10	25.64	33.15	0.25	12
2025	WS	BG	NM11	25.64	34.01	0.25	12
2025	WS	BG	NM12	25.64	34.87	0.25	12
2025	WS	BG	NM13	25.64	35.73	0.25	12
2025	WS	BG	NM14	25.64	36.59	0.25	12
2025	WS	BG	NM15	25.64	37.44	0.25	12
2025	WS	BG	NM16	25.64	38.3	0.25	12
2025	WS	BG	NM17	25.64	39.16	0.25	12
2025	WS	BG	NM18	25.64	40.02	0.25	12
2025	WS	BG	NM19	25.64	40.88	0.25	12
2025	WS	BG	NM20	25.64	41.74	0.25	12
2025	WS	BH	NM01	25.52	25.43	0.25	12
2025	WS	BH	NM02	25.52	28.86	0.25	12
2025	WS	BH	NM03	25.52	32.29	0.25	12
2025	WS	BH	NM04	25.52	35.73	0.25	12
2025	WS	BH	NM05	25.52	39.16	0.25	12
2035	WS	BB	EU01	24.73	24.61	0.862	9.682
2035	WS	BB	EU02	24.73	25.49	0.2	2.247
2035	WS	BB	ES03	24.73	26.73	15.971	157.435
2035	WS	BB	EU04	24.73	26.95	6.83	76.682
2035	WS	BB	NM01	24.73	28.46	0.25	12

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	WS	BB	NM02	24.73	29.24	0.25	12
2035	WS	BB	NM03	24.73	30	0.25	12
2035	WS	BB	NM04	24.73	30.77	0.25	12
2035	WS	BB	NM05	24.73	31.54	0.25	12
2035	WS	BB	NM06	24.73	32.31	0.25	12
2035	WS	BB	NM07	24.73	33.06	0.25	12
2035	WS	BB	NM08	24.73	33.84	0.25	12
2035	WS	BB	NM09	24.73	34.6	0.25	12
2035	WS	BB	NM10	24.73	35.37	0.25	12
2035	WS	BB	NM11	24.73	36.14	0.25	12
2035	WS	BB	NM12	24.73	36.91	0.25	12
2035	WS	BB	NM13	24.73	37.68	0.25	12
2035	WS	BB	NM14	24.73	38.45	0.25	12
2035	WS	BB	NM15	24.73	39.21	0.25	12
2035	WS	BB	NM16	24.73	39.99	0.25	12
2035	WS	BB	NM17	24.73	40.74	0.25	12
2035	WS	BB	NM18	24.73	41.51	0.25	12
2035	WS	BB	NM19	24.73	42.28	0.25	12
2035	WS	BB	NM20	24.73	43.05	0.25	12
2035	WS	BB	NM21	24.73	43.82	0.25	12
2035	WS	BB	NM22	24.73	44.59	0.25	12
2035	WS	BB	NM23	24.73	45.35	0.25	12
2035	WS	BB	NM24	24.73	46.13	0.25	12
2035	WS	BB	NM25	24.73	46.89	0.25	12
2035	WS	BD	NM01	24.64	23.66	2	96
2035	WS	BD	NM02	24.64	24.08	2	96
2035	WS	BD	NM03	24.64	24.5	2	96
2035	WS	BD	NM04	24.64	24.93	2	96
2035	WS	BD	NM05	24.64	25.35	2	96
2035	WS	BD	EU01	24.64	25.42	0.174	2.537
2035	WS	BD	NM06	24.64	25.77	2	96
2035	WS	BD	NM07	24.64	26.2	2	96
2035	WS	BD	NM08	24.64	26.62	2	96
2035	WS	BD	ES01	24.64	26.73	16.209	260.138
2035	WS	BD	EU02	24.64	26.95	1.756	25.577
2035	WS	BD	NM09	24.64	27.04	2	96
2035	WS	BD	NM10	24.64	27.47	2	96
2035	WS	BD	NM11	24.64	27.89	2	96
2035	WS	BD	NM12	24.64	28.31	2	96
2035	WS	BD	EU03	24.64	28.43	8.488	123.623
2035	WS	BD	NM13	24.64	28.74	2	96
2035	WS	BD	NM14	24.64	29.16	2	96
2035	WS	BD	NM15	24.64	29.59	2	96
2035	WS	BD	EU04	24.64	29.98	0.606	8.83
2035	WS	BD	NM16	24.64	30.01	2	96
2035	WS	BD	NM17	24.64	30.43	2	96
2035	WS	BD	NM18	24.64	30.86	2	96
2035	WS	BD	NM19	24.64	31.28	2	96
2035	WS	BD	NM20	24.64	31.7	2	96
2035	WS	BD	NM21	24.64	32.13	2	96
2035	WS	BD	NM22	24.64	32.54	2	96
2035	WS	BD	NM23	24.64	32.96	2	96
2035	WS	BD	NM24	24.64	33.38	2	96
2035	WS	BD	NM25	24.64	33.8	2	96
2035	WS	BD	NM26	24.64	34.22	2	96
2035	WS	BD	NM27	24.64	34.65	2	96
2035	WS	BD	NM28	24.64	35.07	2	96
2035	WS	BD	NM29	24.64	35.49	2	96
2035	WS	BD	NM30	24.64	35.92	2	96
2035	WS	BD	NM31	24.64	36.34	2	96
2035	WS	BD	NM32	24.64	36.76	2	96
2035	WS	BD	NM33	24.64	37.19	2	96
2035	WS	BD	NM34	24.64	37.61	2	96
2035	WS	BD	NM35	24.64	38.04	2	96
2035	WS	BD	NM36	24.64	38.47	2	96
2035	WS	BD	NM37	24.64	38.88	2	96
2035	WS	BD	NM38	24.64	39.19	1	48
2035	WS	BE	NM01	24.38	25.37	1	48
2035	WS	BE	NM02	24.38	25.82	1	48
2035	WS	BE	NM03	24.38	26.26	1	48
2035	WS	BE	NM04	24.38	26.72	1	48
2035	WS	BE	ES01	24.38	26.73	9.653	153.763
2035	WS	BE	EU01	24.38	26.95	6.535	94.603
2035	WS	BE	NM05	24.38	27.18	1	48
2035	WS	BE	NM06	24.38	27.62	1	48
2035	WS	BE	NM07	24.38	28.07	1	48
2035	WS	BE	NM08	24.38	28.52	1	48

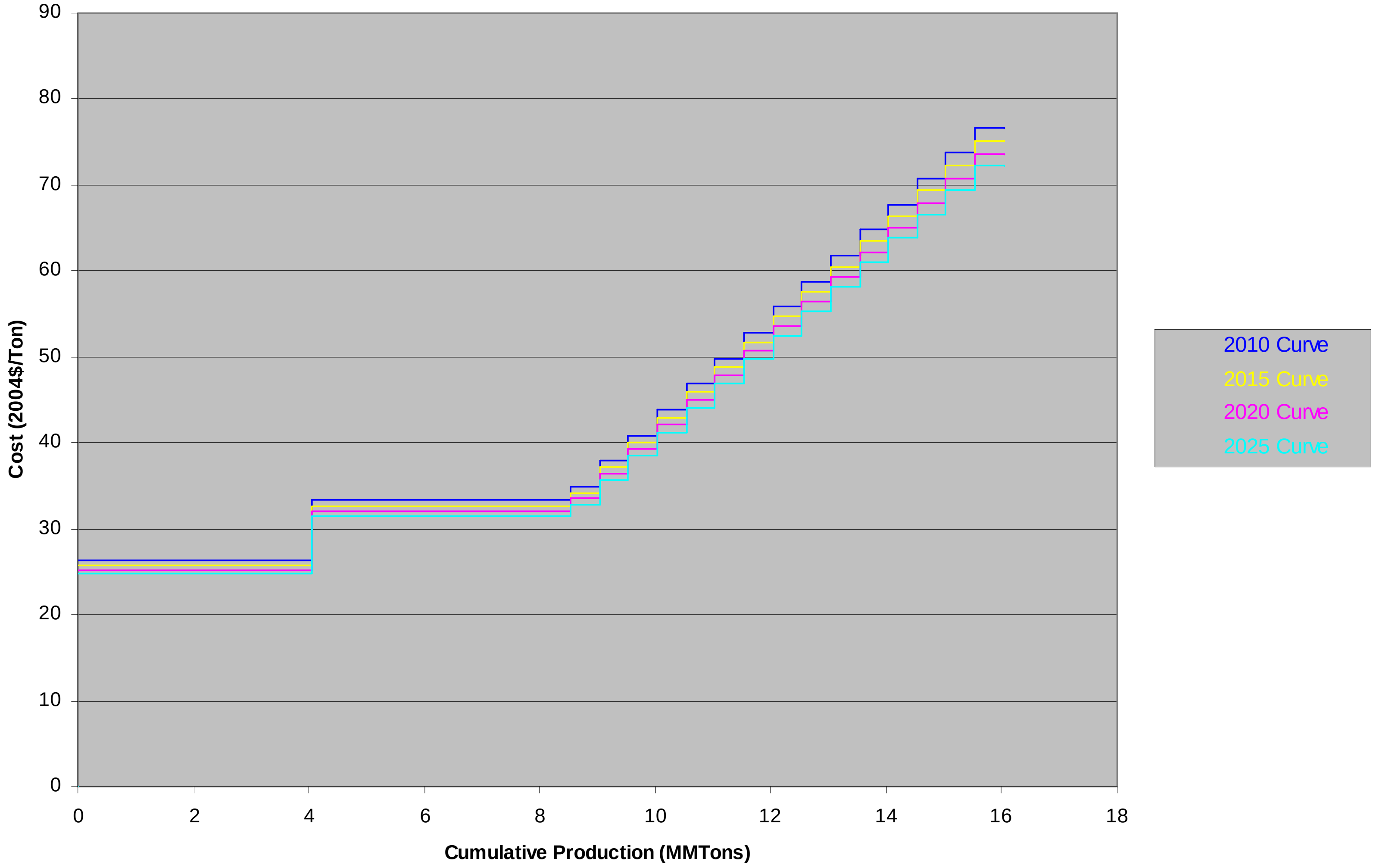
Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2035	WS	BE	NM09	24.38	28.97	1	48
2035	WS	BE	NM10	24.38	29.43	1	48
2035	WS	BE	NM11	24.38	29.88	1	48
2035	WS	BE	NM12	24.38	30.32	1	48
2035	WS	BE	NM13	24.38	30.77	1	48
2035	WS	BE	NM14	24.38	31.22	1	48
2035	WS	BE	NM15	24.38	31.68	1	48
2035	WS	BE	NM16	24.38	32.13	1	48
2035	WS	BE	NM17	24.38	32.57	1	48
2035	WS	BE	NM18	24.38	33.02	1	48
2035	WS	BE	NM19	24.38	33.48	1	48
2035	WS	BE	NM20	24.38	33.93	1	48
2035	WS	BE	NM21	24.38	34.38	1	48
2035	WS	BE	NM22	24.38	34.82	1	48
2035	WS	BE	NM23	24.38	35.28	1	48
2035	WS	BE	NM24	24.38	35.73	1	48
2035	WS	BE	NM25	24.38	36.18	1	48
2035	WS	BE	NM26	24.38	36.63	1	48
2035	WS	BE	NM27	24.38	37.08	1	48
2035	WS	BE	NM28	24.38	37.53	1	48
2035	WS	BE	NM29	24.38	37.99	1	48
2035	WS	BE	NM30	24.38	38.44	1	48
2035	WS	BE	NM31	24.38	38.88	1	48
2035	WS	BE	NM32	24.38	39.33	1	48
2035	WS	BE	NM33	24.38	39.79	1	48
2035	WS	BE	NM34	24.38	40.24	1	48
2035	WS	BE	NM35	24.38	40.68	1	48
2035	WS	BE	NM36	24.38	41.13	1	48
2035	WS	BE	NM37	24.38	41.58	1	48
2035	WS	BE	NM38	24.38	41.93	0.5	24
2035	WS	BG	NM01	25.64	24.93	0.25	12
2035	WS	BG	NM02	25.64	25.77	0.25	12
2035	WS	BG	NM03	25.64	26.61	0.25	12
2035	WS	BG	ES01	25.64	26.73	0.027	0.202
2035	WS	BG	EU02	25.64	26.95	0.012	0.062
2035	WS	BG	NM04	25.64	27.46	0.25	12
2035	WS	BG	NM05	25.64	28.29	0.25	12
2035	WS	BG	NM06	25.64	29.13	0.25	12
2035	WS	BG	NM07	25.64	29.98	0.25	12
2035	WS	BG	NM08	25.64	30.81	0.25	12
2035	WS	BG	NM09	25.64	31.65	0.25	12
2035	WS	BG	NM10	25.64	32.5	0.25	12
2035	WS	BG	NM11	25.64	33.33	0.25	12
2035	WS	BG	NM12	25.64	34.18	0.25	12
2035	WS	BG	NM13	25.64	35.01	0.25	12
2035	WS	BG	NM14	25.64	35.86	0.25	12
2035	WS	BG	NM15	25.64	36.7	0.25	12
2035	WS	BG	NM16	25.64	37.55	0.25	12
2035	WS	BG	NM17	25.64	38.38	0.25	12
2035	WS	BG	NM18	25.64	39.23	0.25	12
2035	WS	BG	NM19	25.64	40.06	0.25	12
2035	WS	BG	NM20	25.64	40.91	0.25	12
2035	WS	BH	NM01	25.52	24.93	0.25	12
2035	WS	BH	NM02	25.52	28.29	0.25	12
2035	WS	BH	NM03	25.52	31.65	0.25	12
2035	WS	BH	NM04	25.52	35.01	0.25	12
2035	WS	BH	NM05	25.52	38.38	0.25	12
2007	NA	WC	S1	13.7	10.2	6.8	9999
2007	NA	WC	S2	13.7	11.19	4	9999
2007	NA	WC	S3	13.7	12.28	2.7	9999
2007	NA	WC	S4	13.7	12.72	0.9	9999
2007	NA	WC	S5	13.7	12.87	0.3	9999
2007	NA	WC	S6	13.7	13.44	0.1	9999
2007	NA	WC	S7	13.7	13.6	0.1	9999
2007	NA	WC	S8	13.7	13.94	0.3	9999
2007	NA	WC	S9	13.7	15.16	0.9	9999
2007	NA	WC	S10	13.7	22	0.5	9999
2007	NA	WC	S11	13.7	58.61	0	9999
2008	NA	WC	S1	13.7	10.45	7.3	9999
2008	NA	WC	S2	13.7	11.57	4.3	9999
2008	NA	WC	S3	13.7	12.77	2.9	9999
2008	NA	WC	S4	13.7	13.26	1	9999
2008	NA	WC	S5	13.7	13.44	0.3	9999
2008	NA	WC	S6	13.7	14.34	0.2	9999
2008	NA	WC	S7	13.7	14.54	0.2	9999
2008	NA	WC	S8	13.7	14.96	0.3	9999
2008	NA	WC	S9	13.7	16.53	0.9	9999

Year	Coal Supply Region	Coal Grade	Step Name	Heat Content (MMBtu/Ton)	Cost of Production (2004$/Ton)	Coal Production (Million Tons/Year)	Coal Reserves (Million Tons)
2008	NA	WC	S10	13.7	25.5	0	9999
2008	NA	WC	S11	13.7	79.09	0	9999
2009	NA	WC	S1	13.7	10.67	7.7	9999
2009	NA	WC	S2	13.7	11.81	4.5	9999
2009	NA	WC	S3	13.7	13.04	3	9999
2009	NA	WC	S4	13.7	13.54	1	9999
2009	NA	WC	S5	13.7	13.72	0.3	9999
2009	NA	WC	S6	13.7	14.64	0.2	9999
2009	NA	WC	S7	13.7	14.84	0.2	9999
2009	NA	WC	S8	13.7	15.27	0.3	9999
2009	NA	WC	S9	13.7	16.87	0.9	9999
2009	NA	WC	S10	13.7	26.02	0	9999
2009	NA	WC	S11	13.7	80.67	0	9999
2010	NA	WC	S1	13.7	10.87	7.8	9999
2010	NA	WC	S2	13.7	11.94	4.6	9999
2010	NA	WC	S3	13.7	13.11	3.1	9999
2010	NA	WC	S4	13.7	13.59	1	9999
2010	NA	WC	S5	13.7	13.75	0.3	9999
2010	NA	WC	S6	13.7	14.41	0.2	9999
2010	NA	WC	S7	13.7	14.58	0.2	9999
2010	NA	WC	S8	13.7	14.95	0.3	9999
2010	NA	WC	S9	13.7	16.31	1	9999
2010	NA	WC	S10	13.7	23.88	0.5	9999
2010	NA	WC	S11	13.7	65.18	0	9999
2015	NA	WC	S1	13.7	11.13	6.6	9999
2015	NA	WC	S2	13.7	11.63	3.9	9999
2015	NA	WC	S3	13.7	12.27	2.6	9999
2015	NA	WC	S4	13.7	12.53	0.9	9999
2015	NA	WC	S5	13.7	12.62	0.3	9999
2015	NA	WC	S6	13.7	12.73	0.1	9999
2015	NA	WC	S7	13.7	12.76	0.1	9999
2015	NA	WC	S8	13.7	12.84	0.3	9999
2015	NA	WC	S9	13.7	13.13	0.9	9999
2015	NA	WC	S10	13.7	14.67	2.6	9999
2015	NA	WC	S11	13.7	20.45	2.6	9999
2020	NA	WC	S1	13.7	10.86	6.5	9999
2020	NA	WC	S2	13.7	11.4	3.8	9999
2020	NA	WC	S3	13.7	12.08	2.5	9999
2020	NA	WC	S4	13.7	12.35	0.8	9999
2020	NA	WC	S5	13.7	12.45	0.3	9999
2020	NA	WC	S6	13.7	12.52	0.1	9999
2020	NA	WC	S7	13.7	12.57	0.1	9999
2020	NA	WC	S8	13.7	12.66	0.3	9999
2020	NA	WC	S9	13.7	13	0.8	9999
2020	NA	WC	S10	13.7	14.82	2.5	9999
2020	NA	WC	S11	13.7	21.71	1.9	9999
2025	NA	WC	S1	13.7	10.82	6.6	9999
2025	NA	WC	S2	13.7	11.41	3.9	9999
2025	NA	WC	S3	13.7	12.12	2.6	9999
2025	NA	WC	S4	13.7	12.41	0.9	9999
2025	NA	WC	S5	13.7	12.51	0.3	9999
2025	NA	WC	S6	13.7	12.57	0.1	9999
2025	NA	WC	S7	13.7	12.62	0.1	9999
2025	NA	WC	S8	13.7	12.73	0.3	9999
2025	NA	WC	S9	13.7	13.12	0.9	9999
2025	NA	WC	S10	13.7	15.19	2.6	9999
2025	NA	WC	S11	13.7	23.19	1.5	9999
2035	NA	WC	S1	13.7	11.21	7.6	9999
2035	NA	WC	S2	13.7	12.12	4.4	9999
2035	NA	WC	S3	13.7	13.14	3	9999
2035	NA	WC	S4	13.7	13.55	1	9999
2035	NA	WC	S5	13.7	13.7	0.3	9999
2035	NA	WC	S6	13.7	13.95	0.2	9999
2035	NA	WC	S7	13.7	14.07	0.2	9999
2035	NA	WC	S8	13.7	14.32	0.3	9999
2035	NA	WC	S9	13.7	15.23	1	9999
2035	NA	WC	S10	13.7	20.12	1.8	9999
2035	NA	WC	S11	13.7	42.67	0	9999

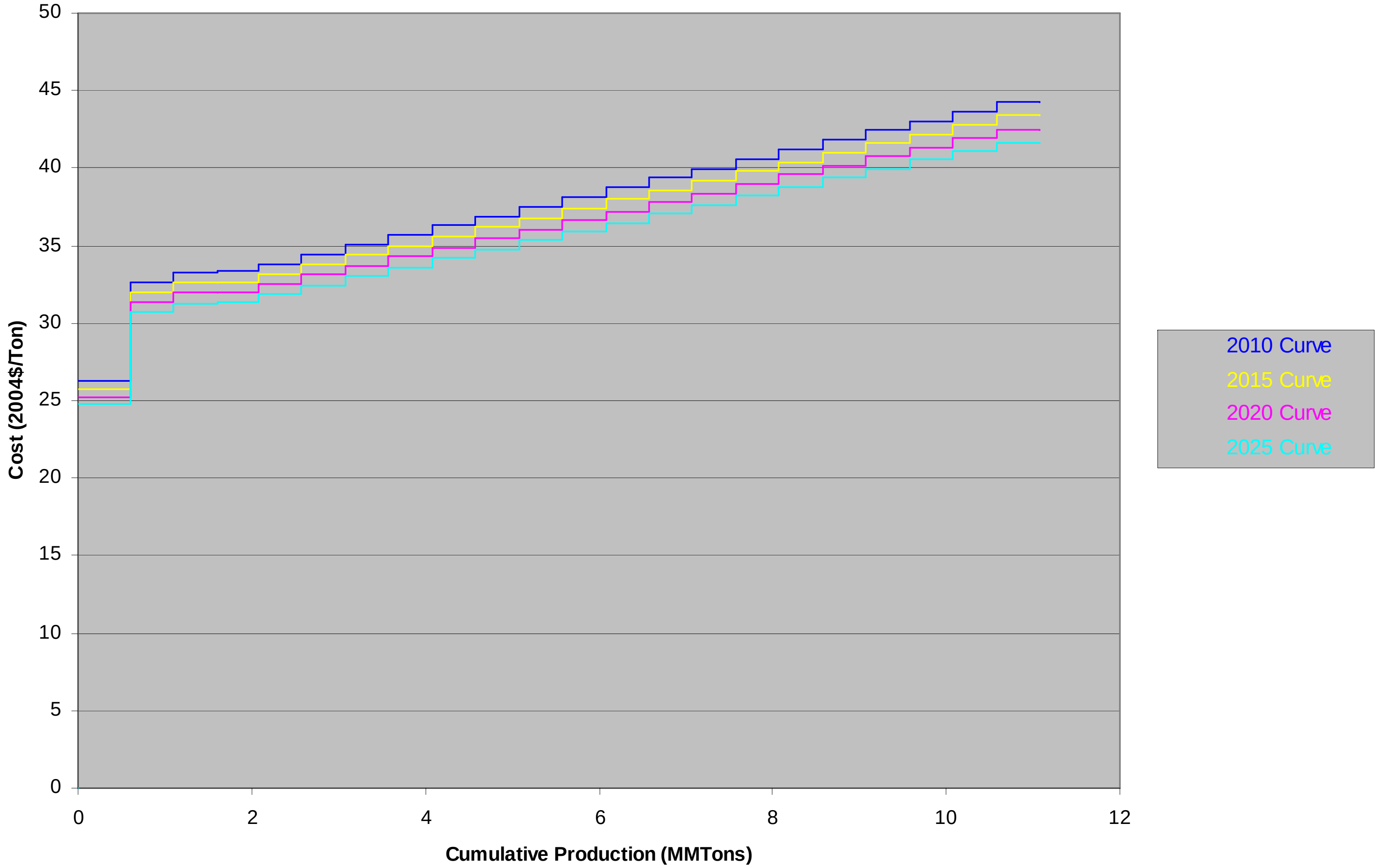

Coal Supply Curve - PC_BB
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
10
20
30
40
50
60
70
80
90
0
1
2
3
4
5
6
2010 Curve
2015 Curve
2020 Curve
2025 Curve


Coal Supply Curve - PC_BD
Cost (2004$/Ton)
0
10
20
30
40
50
60
70
80
90
0
1
2
3
4
5
6
7
8
9
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

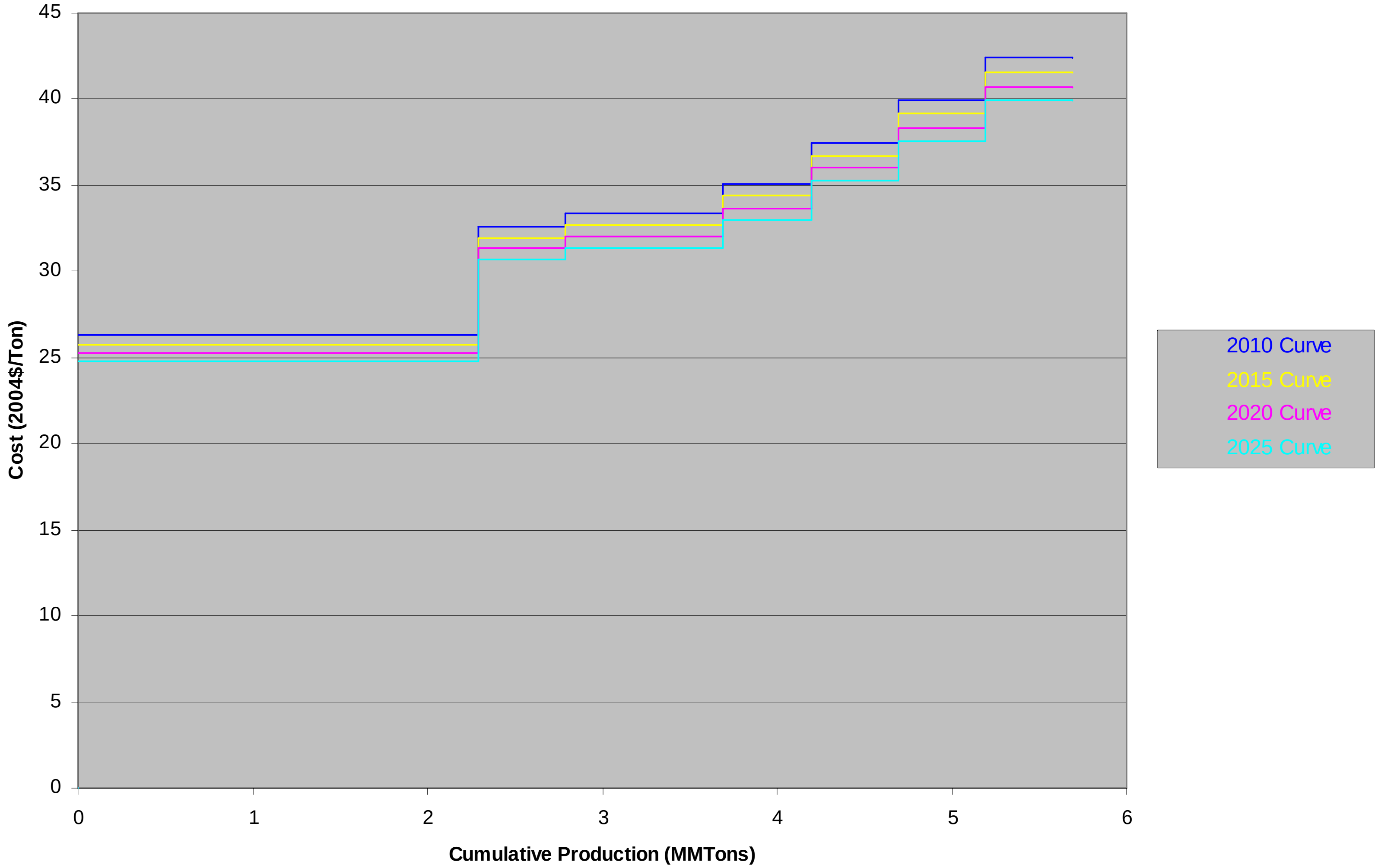
Coal Supply Curve - PC_BE

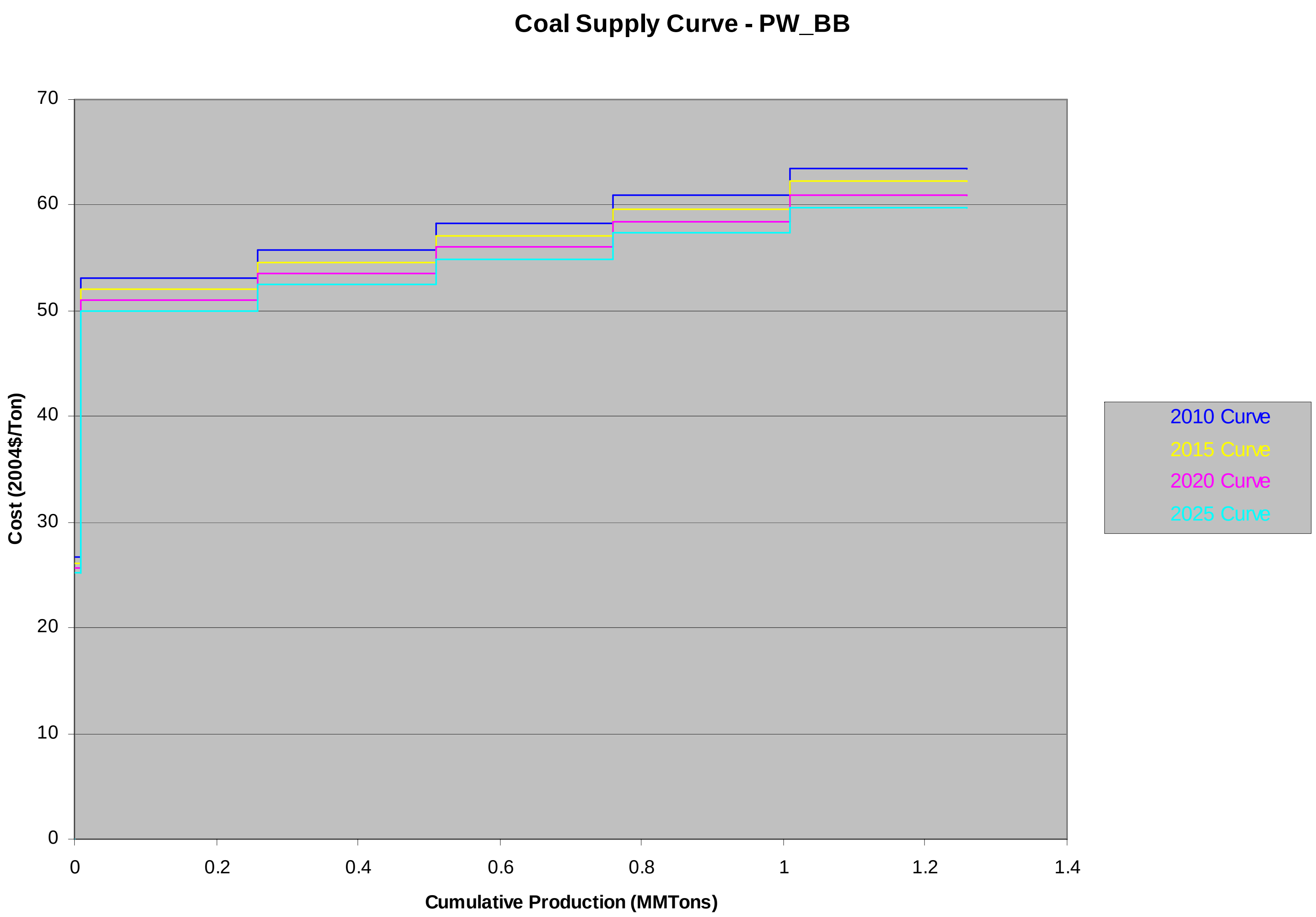


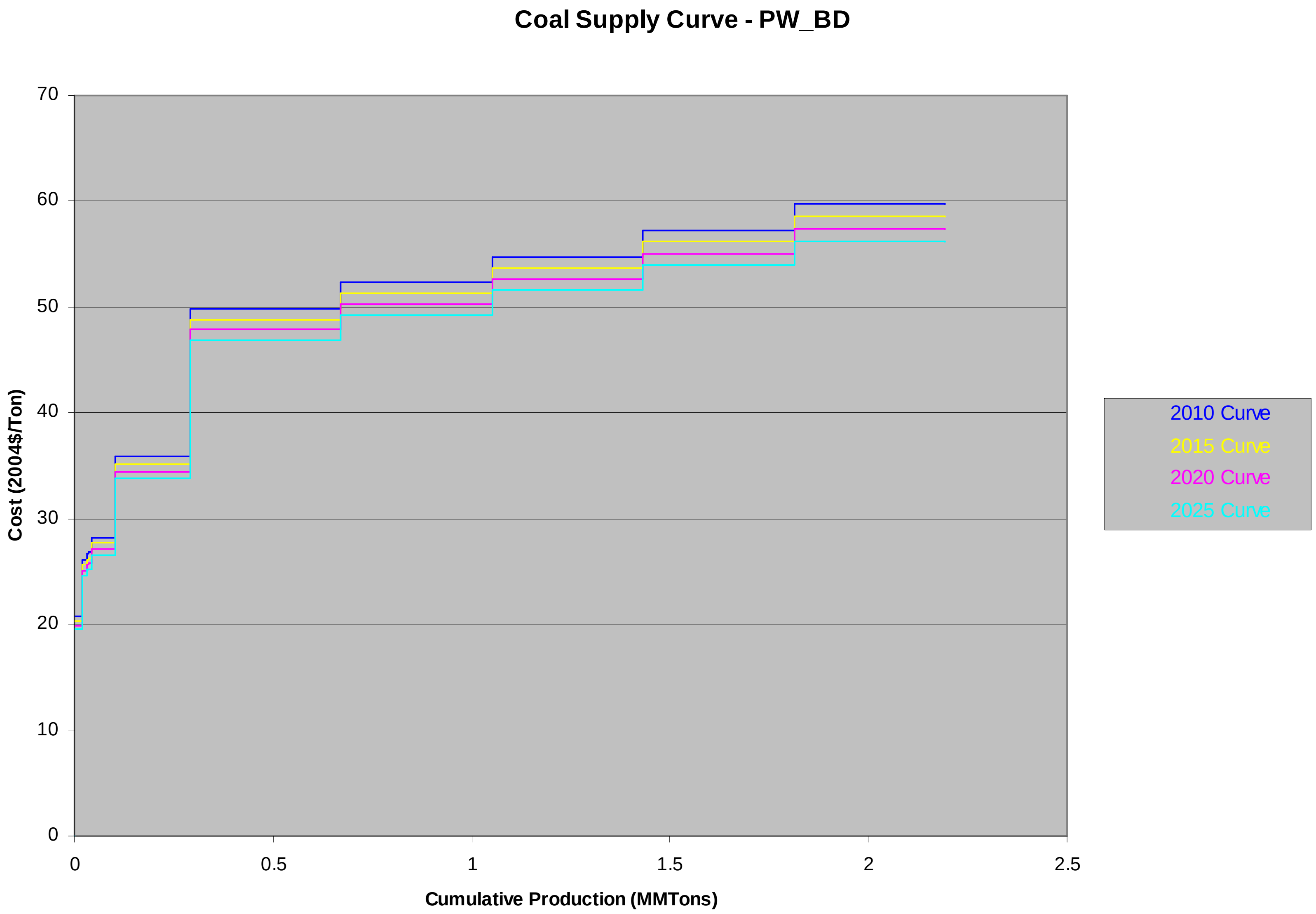
Coal Supply Curve - PC_BG

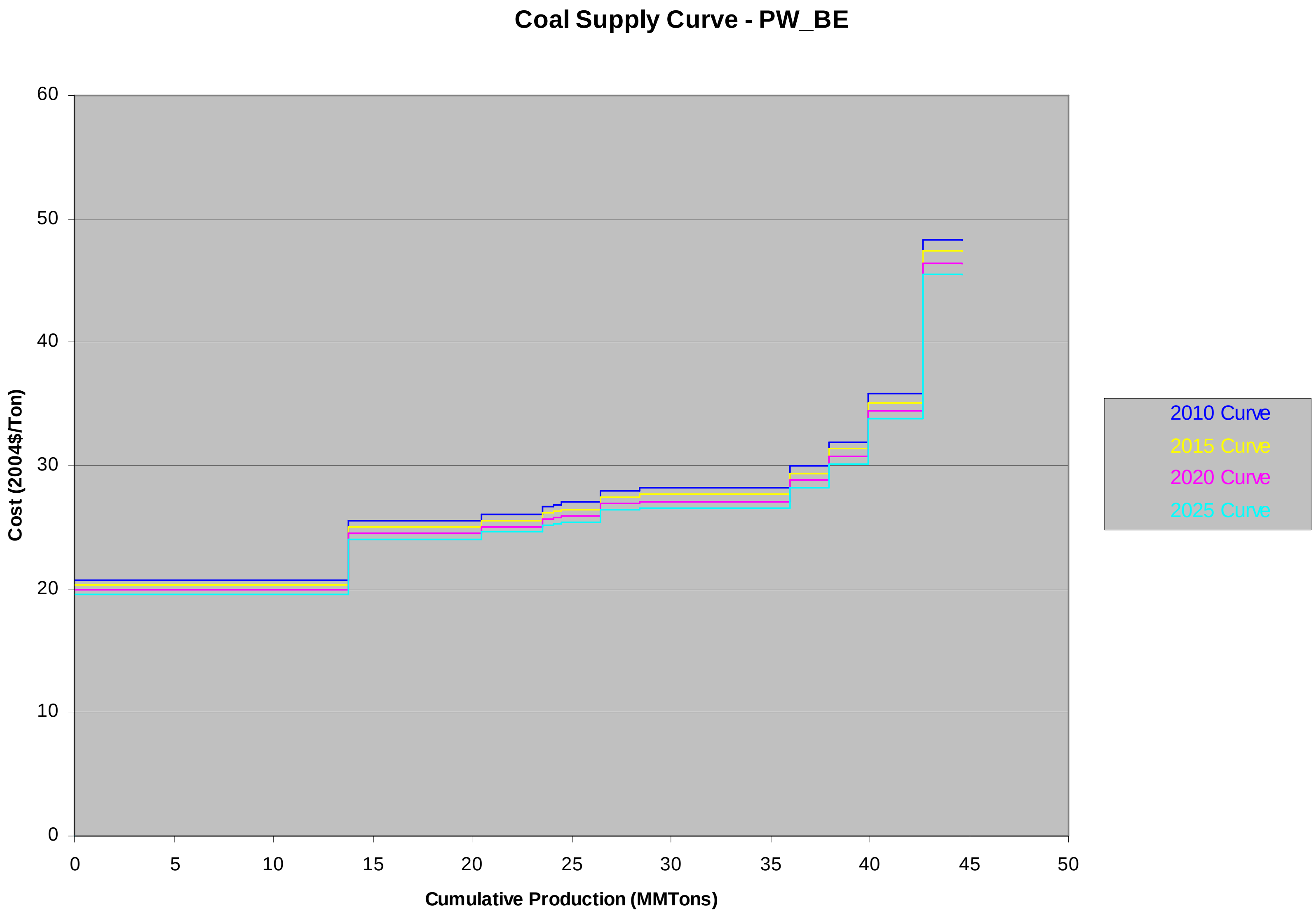


Coal Supply Curve - PC_BH

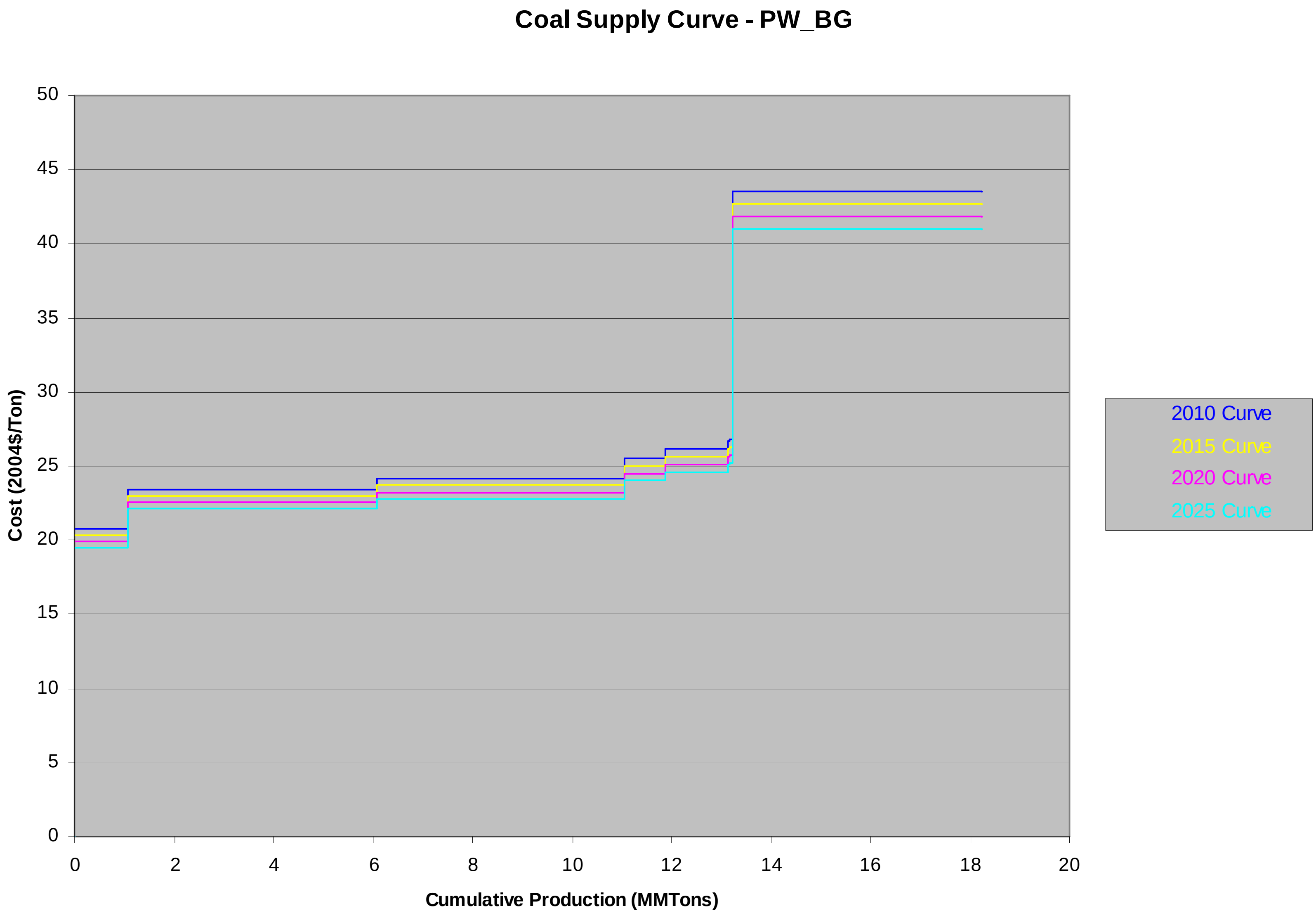



Coal Supply Curve - PW_BB
Cost (2004$/Ton)
70
60
50
40
30
20
10
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

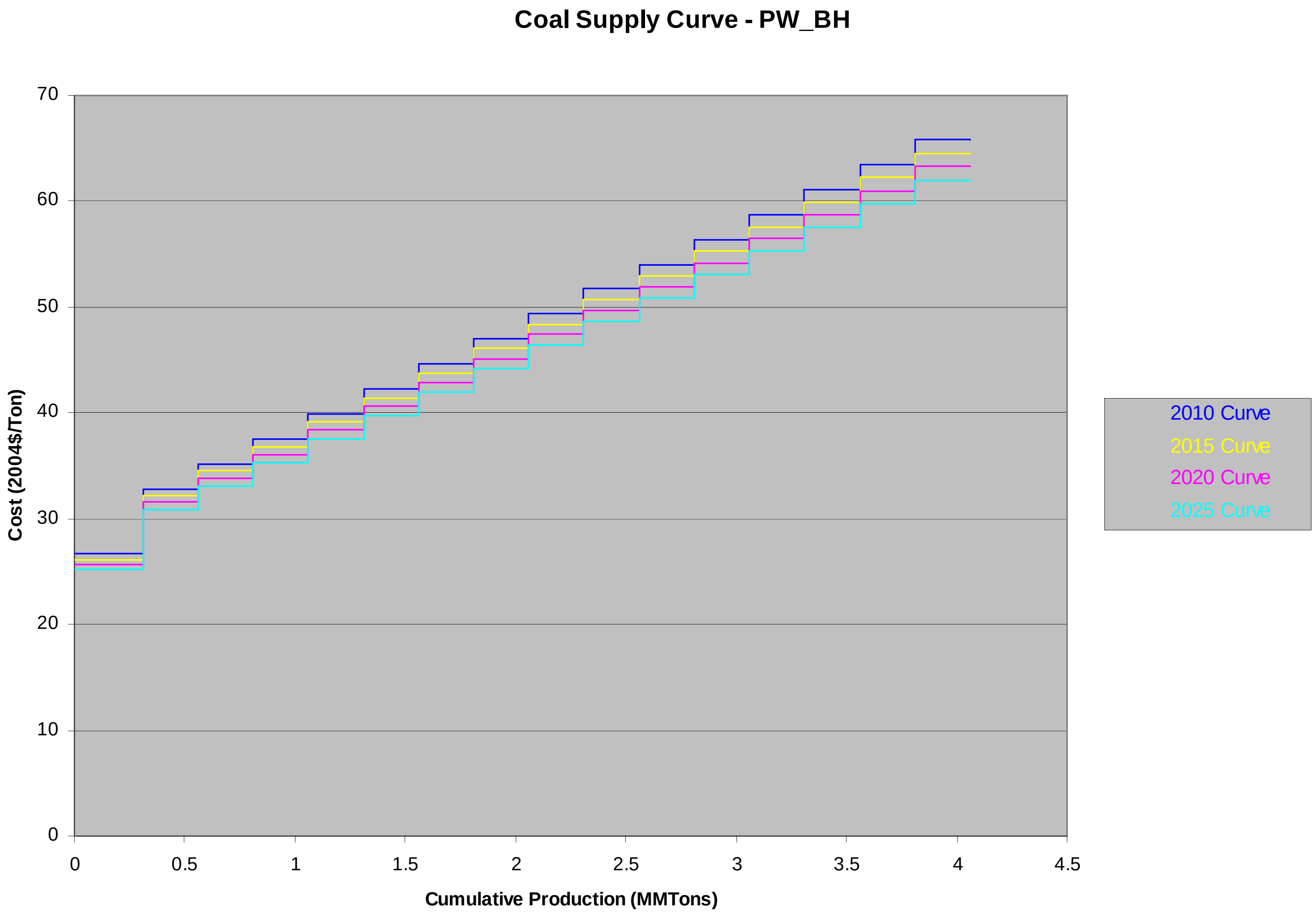

Coal Supply Curve - PW_BD
Cost (2004$/Ton)
0
10
20
30
40
50
60
70
0
0.5
1
1.5
2
2.5
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



Coal Supply Curve - PW_BE
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
10
20
30
40
50
60
0
5
10
15
20
25
30
35
40
45
50
2010 Curve
2015 Curve
2020 Curve
2025 Curve

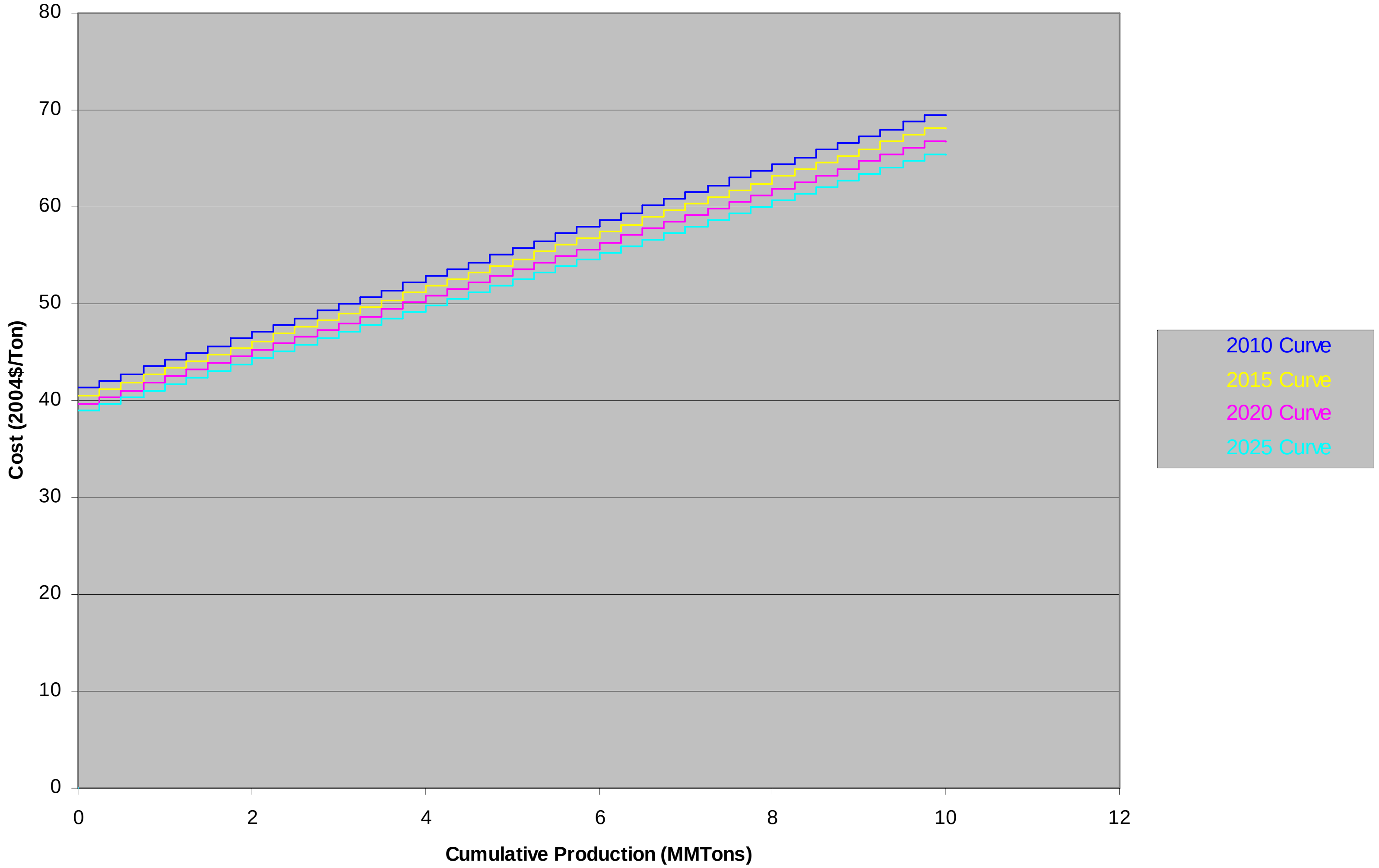


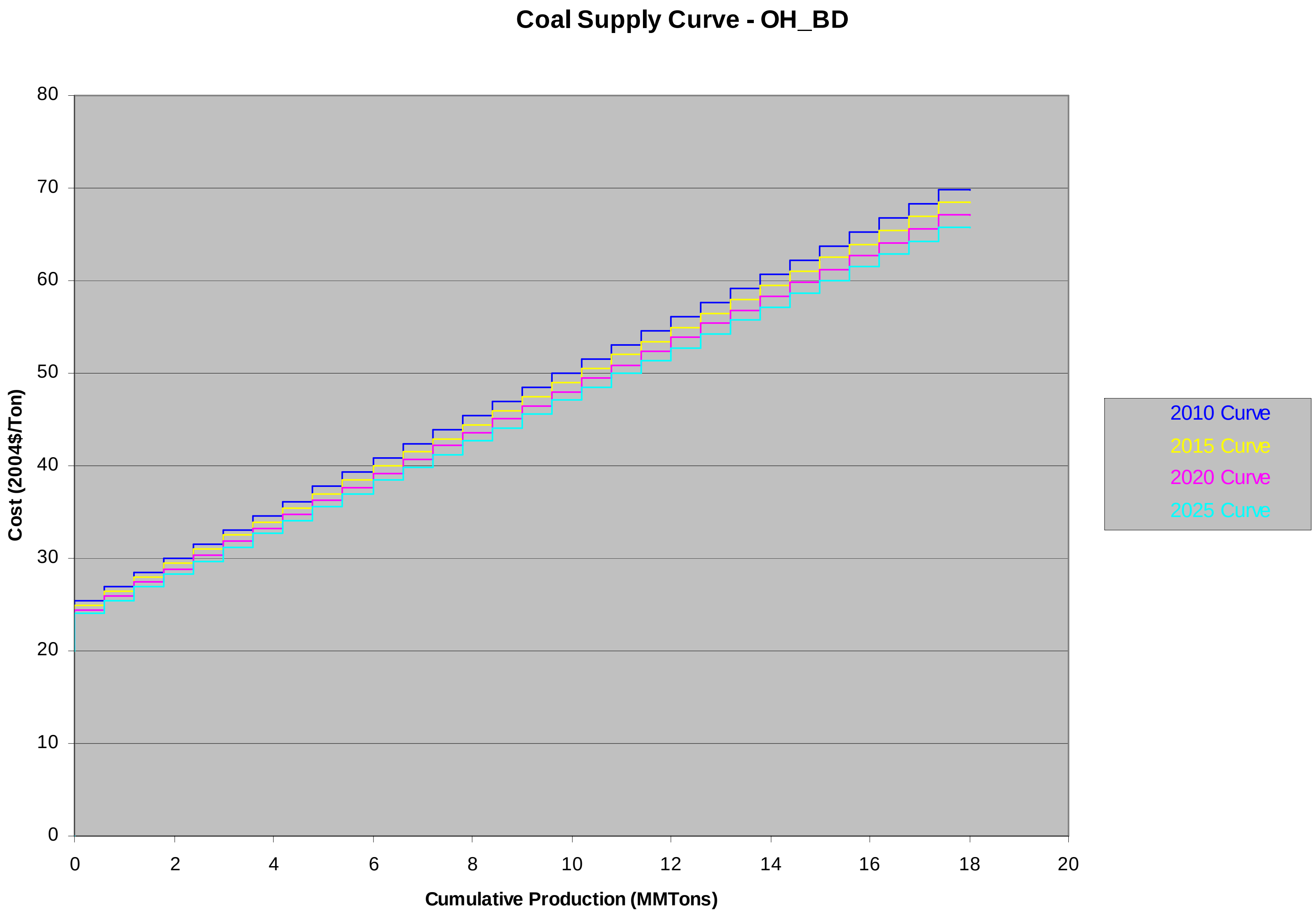
Coal Supply Curve - PW_BG
Cost (2004$/Ton)
0
5
10
15
20
25
30
35
40
45
50
0
2
4
6
8
10
12
14
16
18
20
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



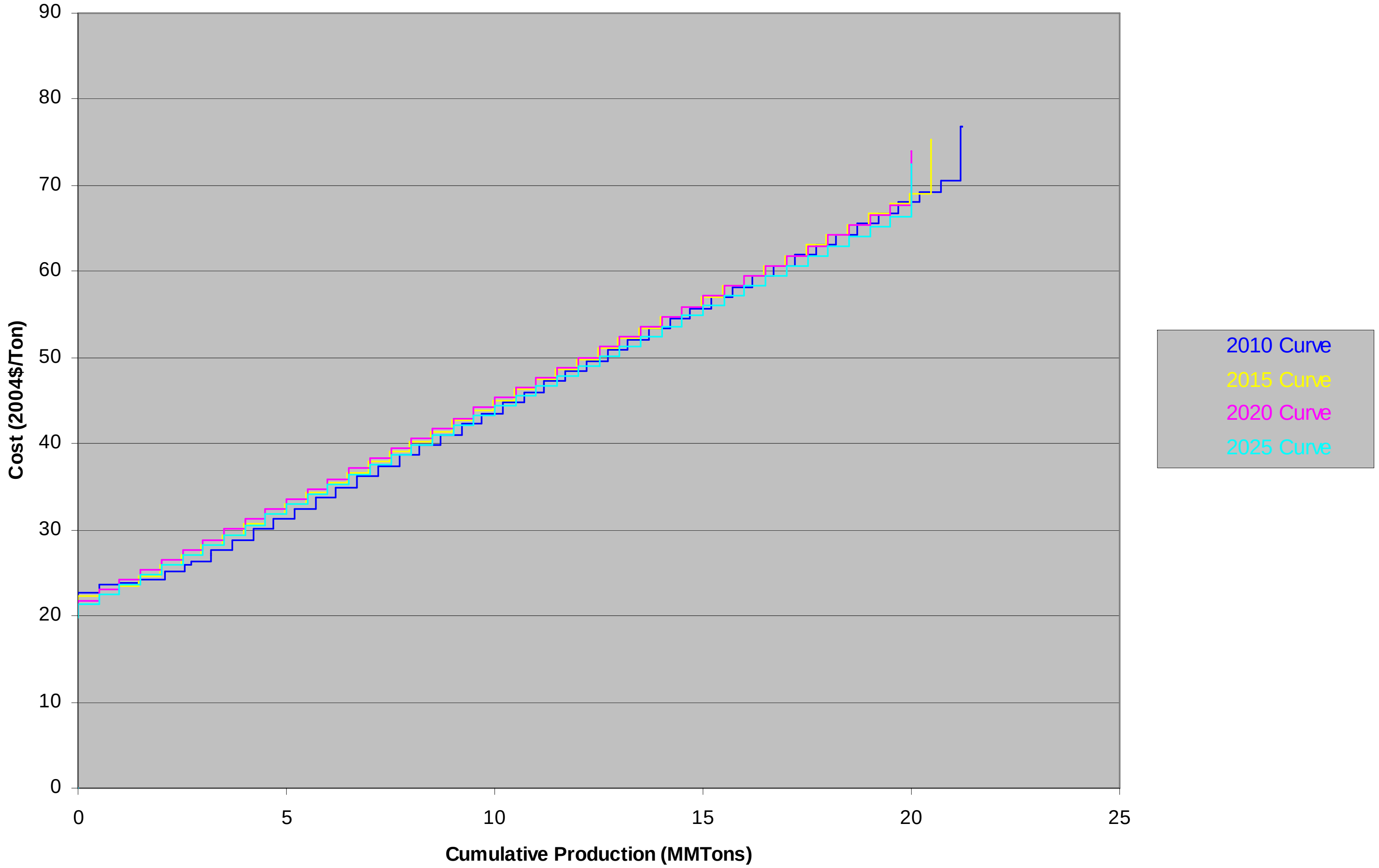
Coal Supply Curve - PW_BH
Cost (2004$/Ton)
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

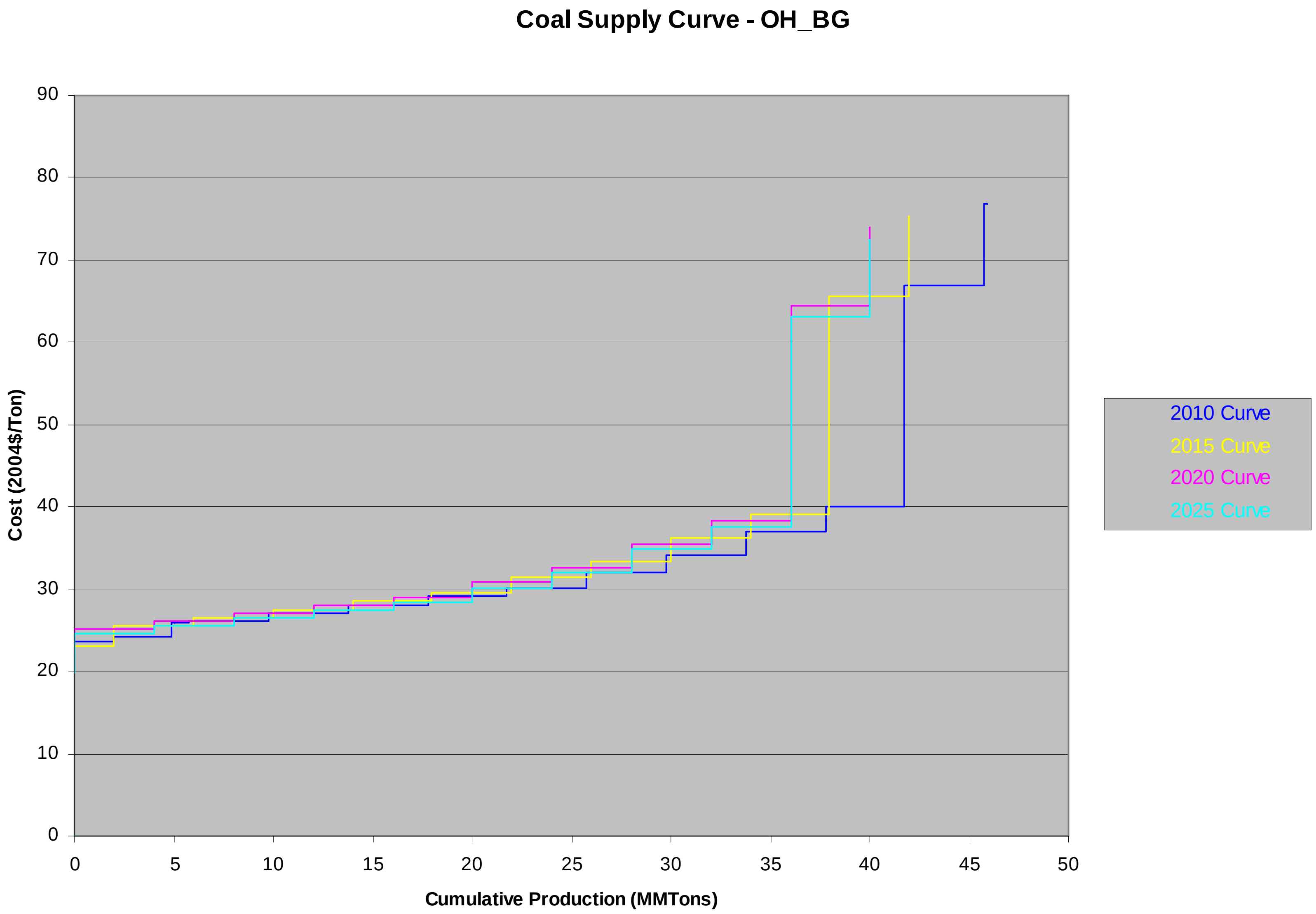
Coal Supply Curve - OH_BB

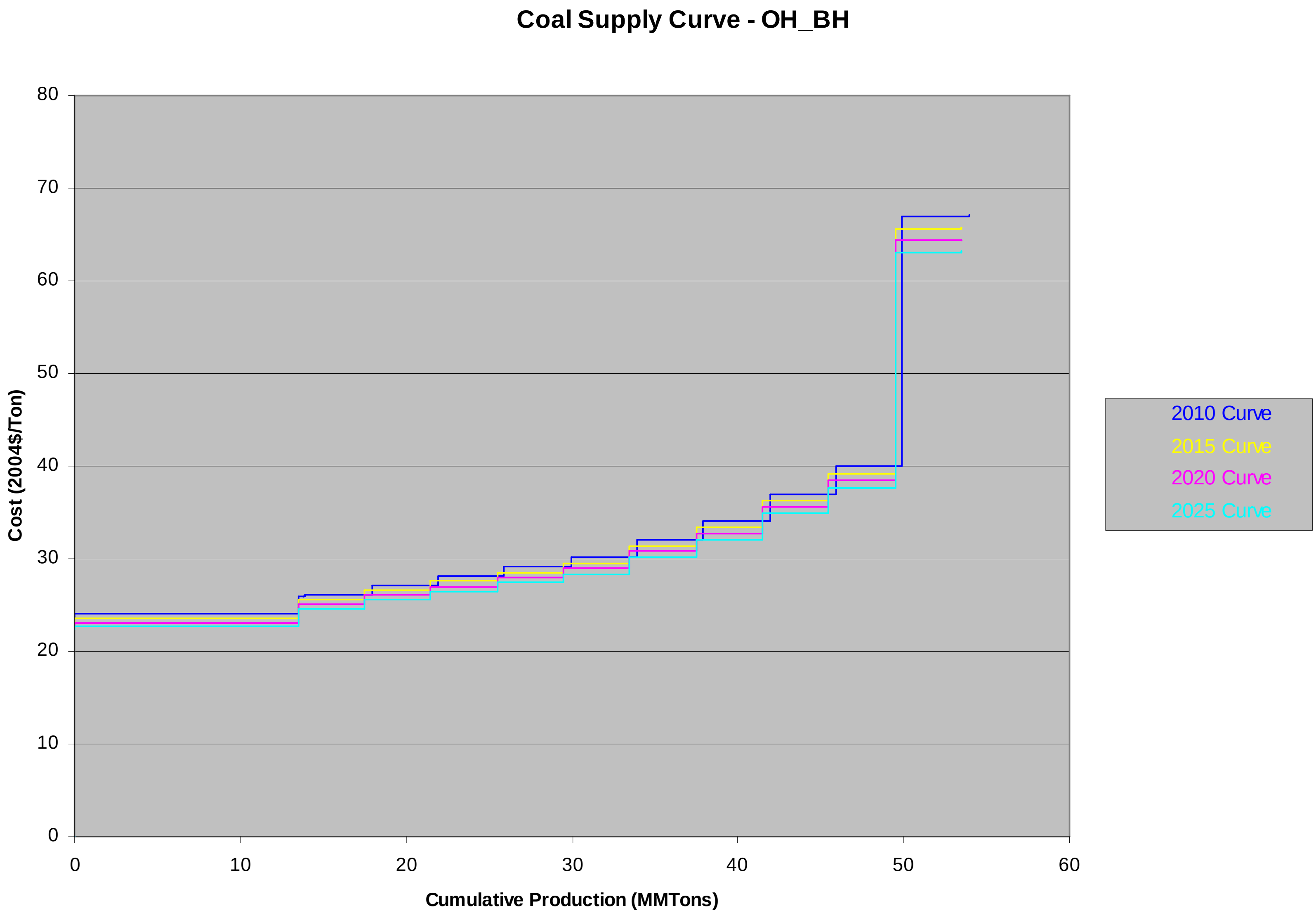



Coal Supply Curve - OH_BD
Cost (2004$/Ton)
80
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
20
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

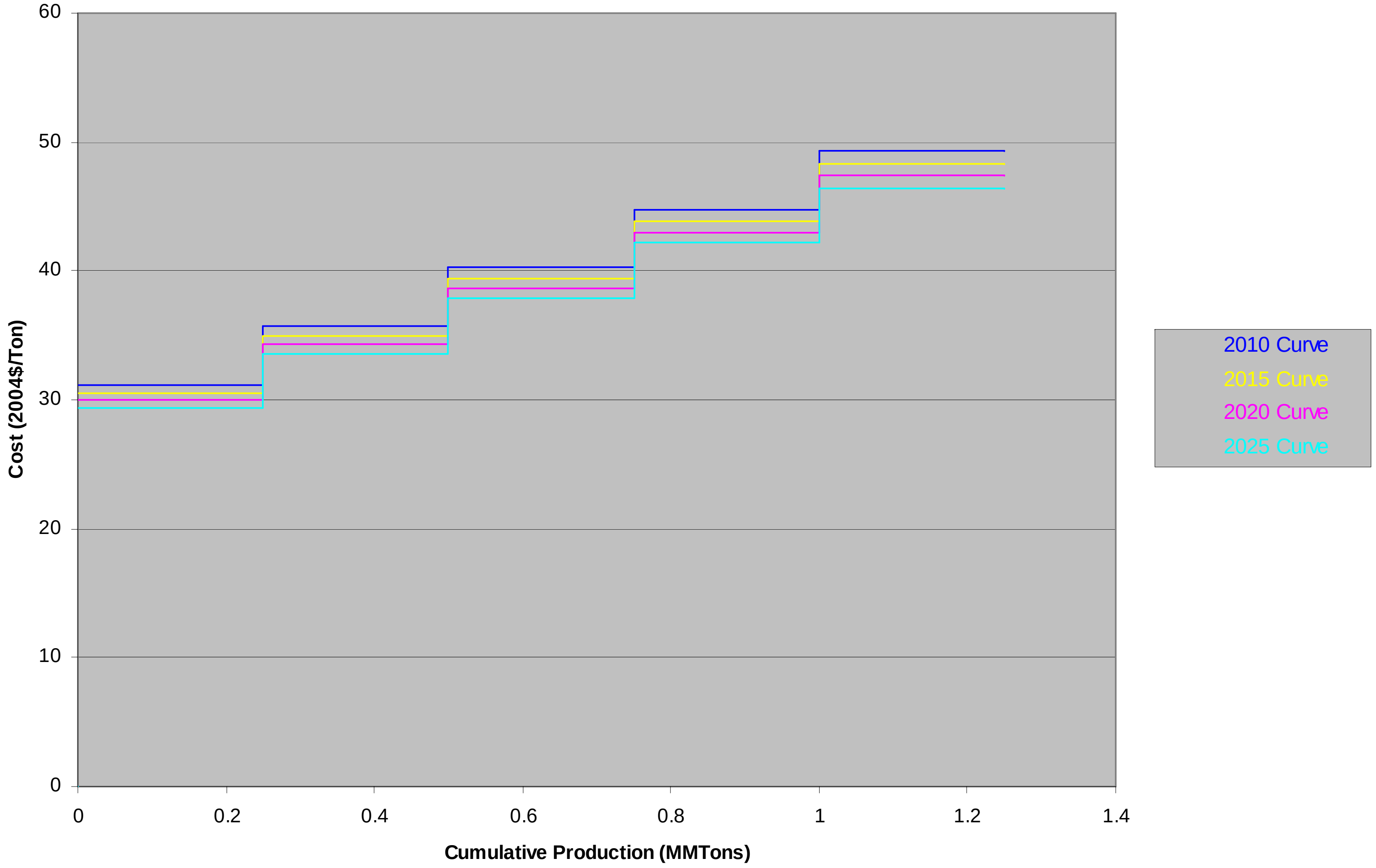
Coal Supply Curve - OH_BE

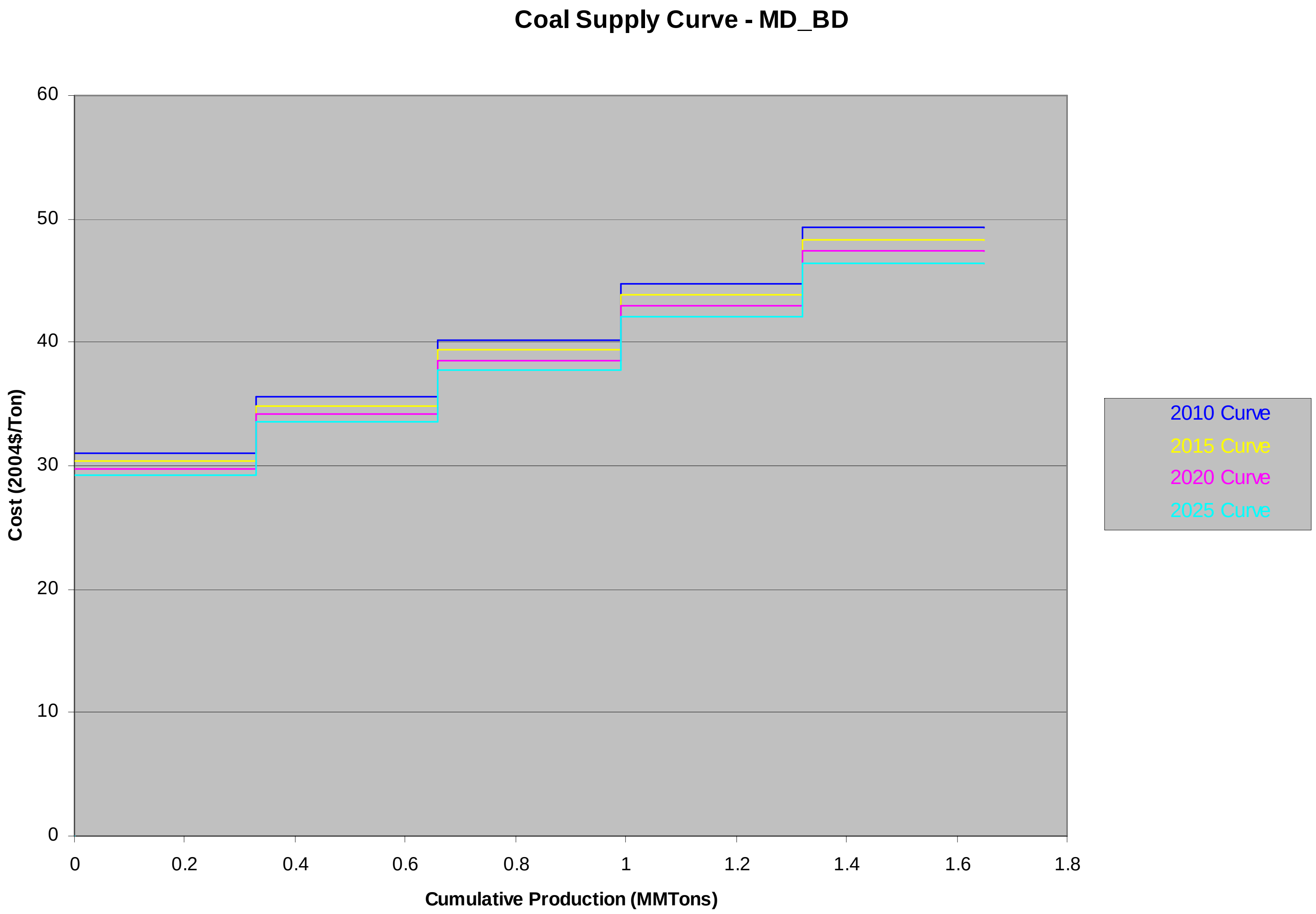



Coal Supply Curve - OH_BG
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
10
20
30
40
50
60
70
80
90
0
5
10
15
20
25
30
35
40
45
50
2010 Curve
2015 Curve
2020 Curve
2025 Curve

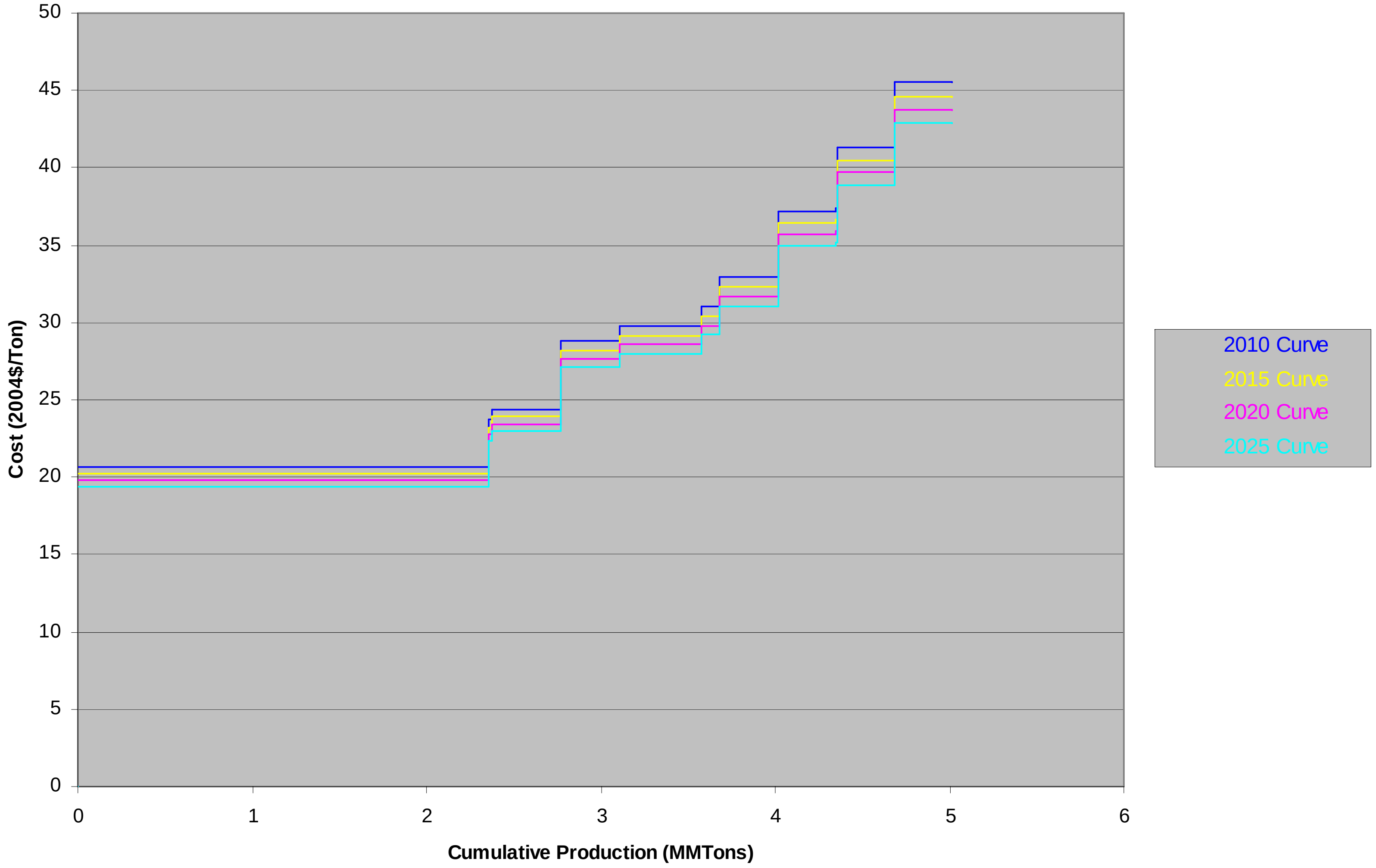

Coal Supply Curve - OH_BH
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
10
20
30
40
50
60
70
80
0
10
20
30
40
50
60
2010 Curve
2015 Curve
2020 Curve
2025 Curve

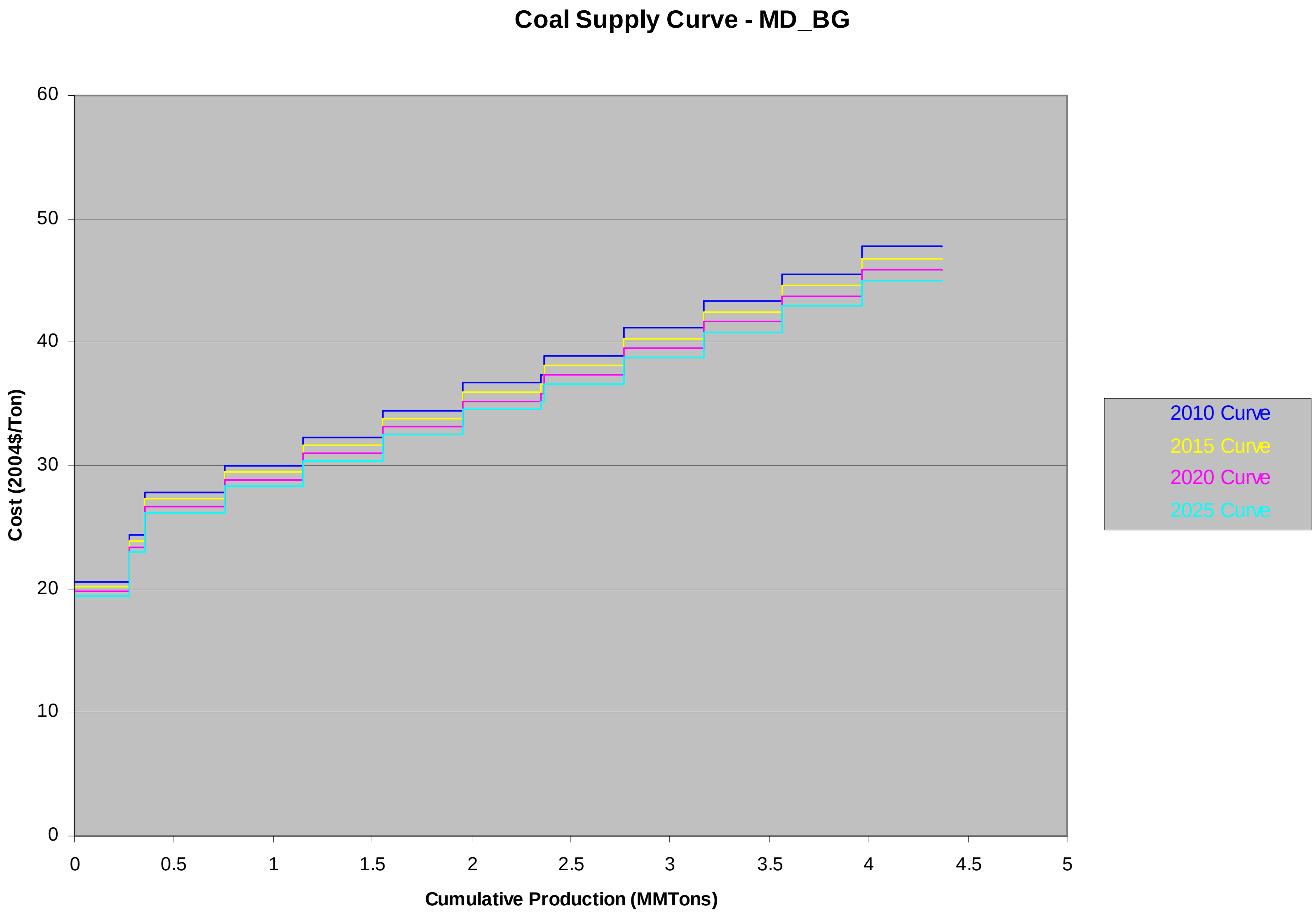
Coal Supply Curve - MD_BB



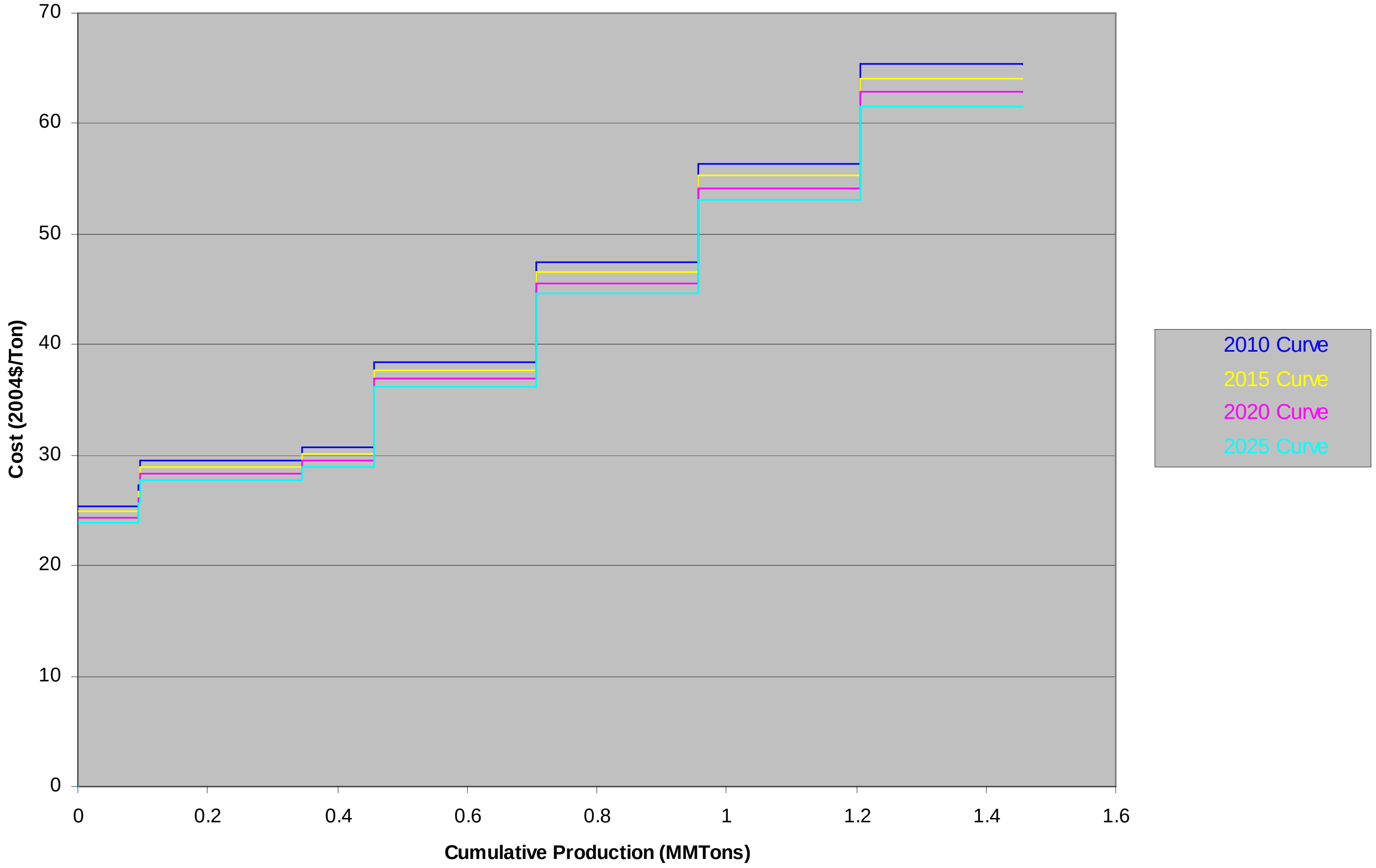

Coal Supply Curve - MD_BD
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
10
20
30
40
50
60
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - MD_BE

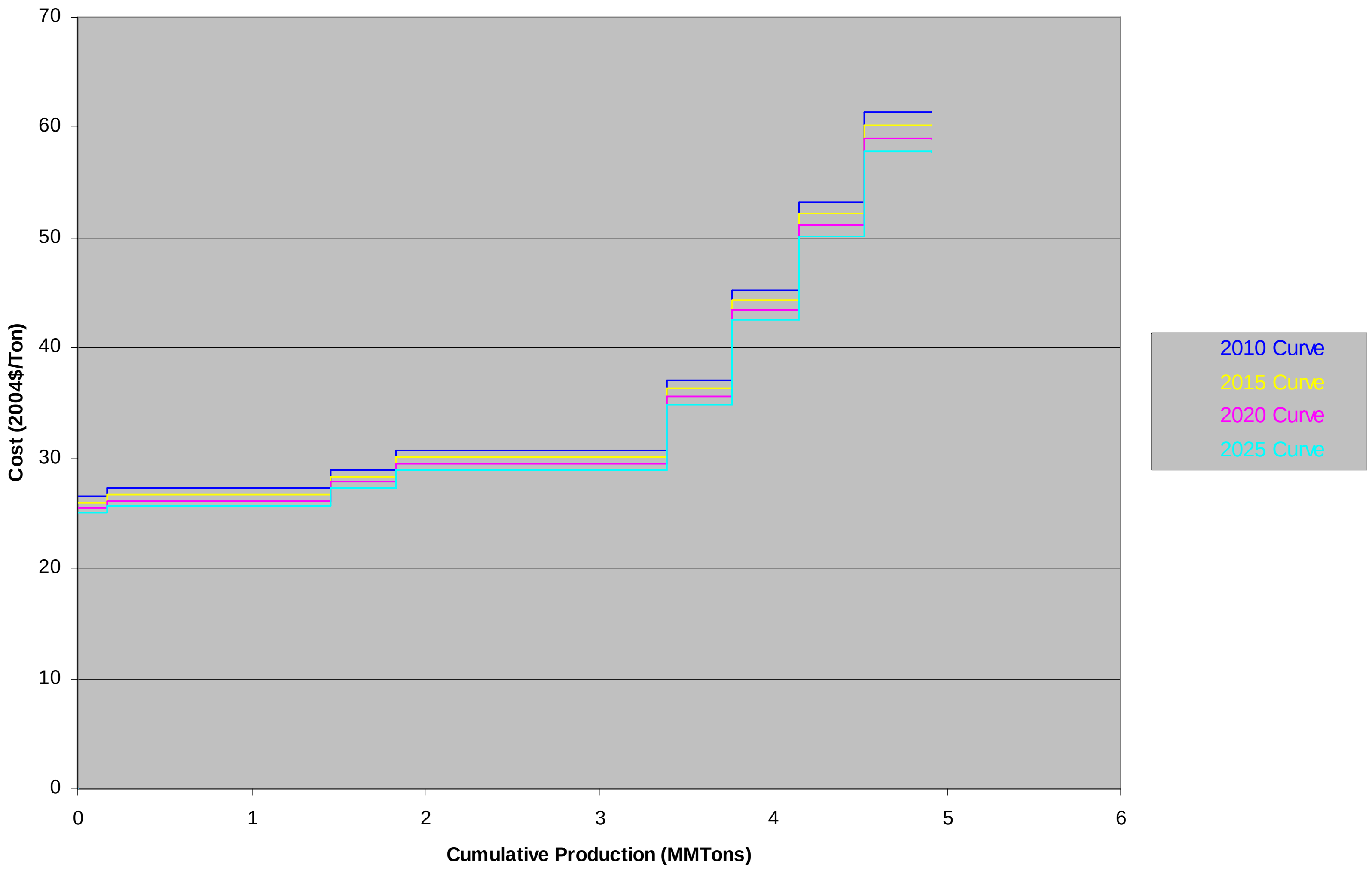


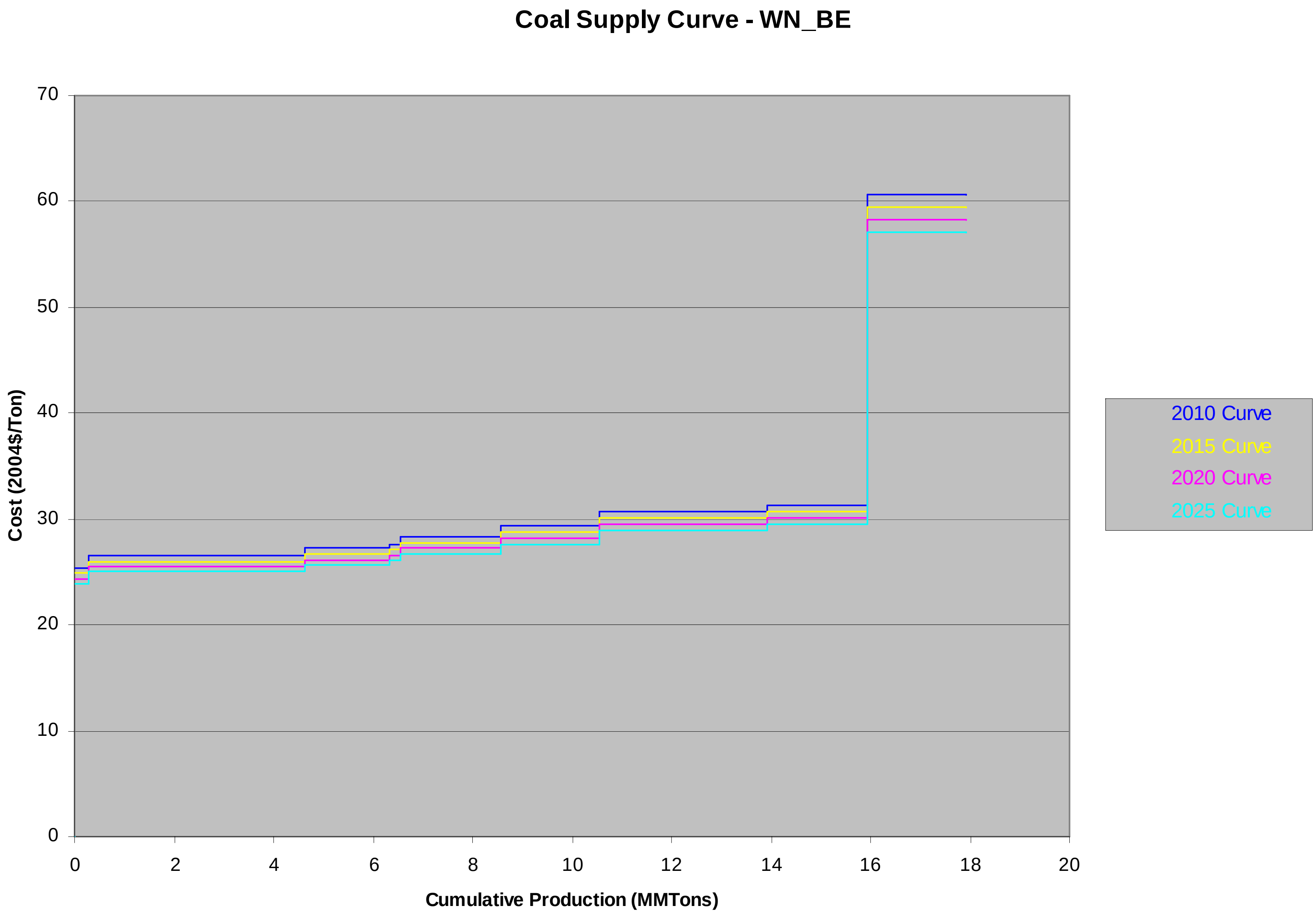

Coal Supply Curve - MD_BG
Cost (2004$/Ton)
0
10
20
30
40
50
60
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

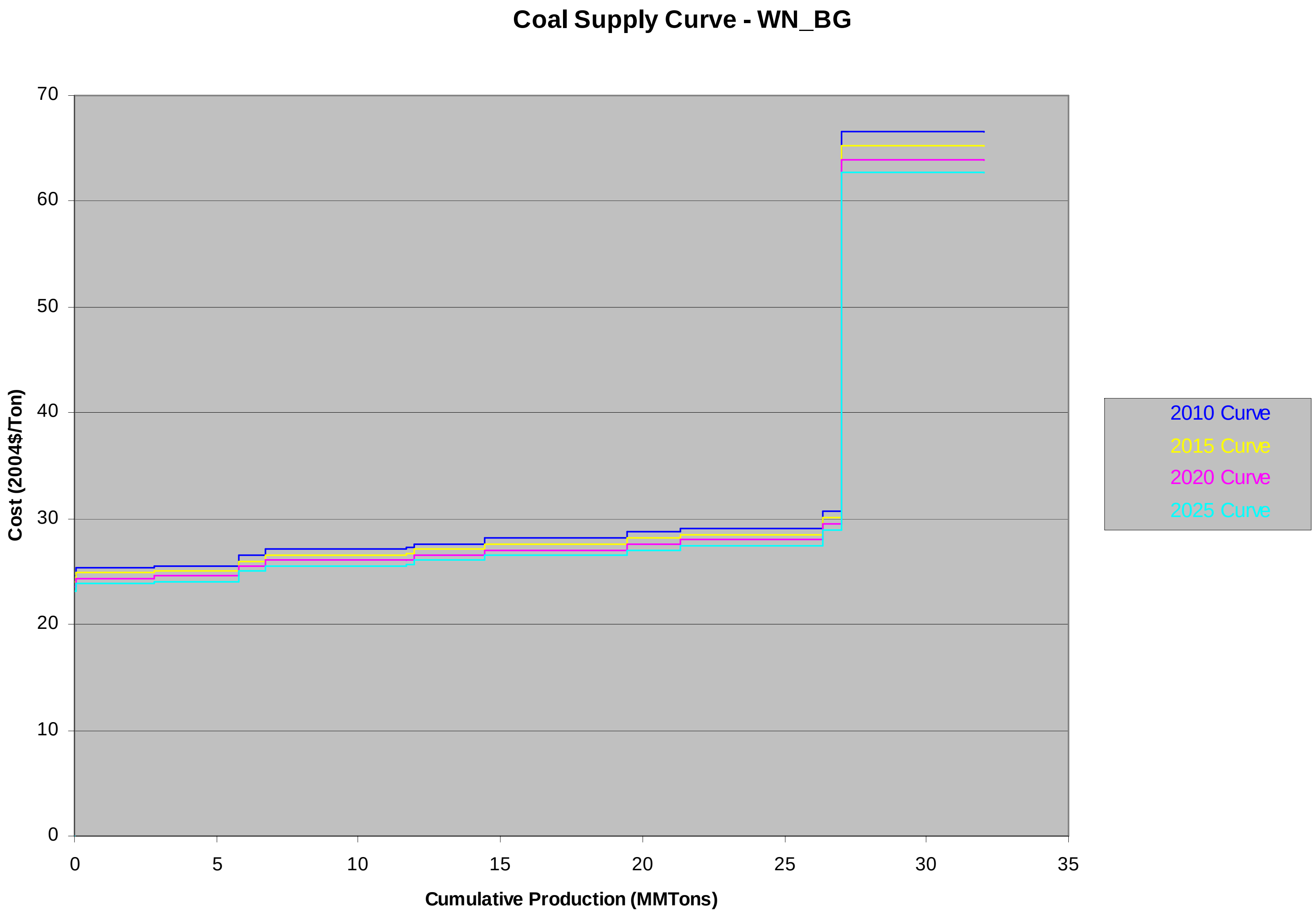
Coal Supply Curve - WN_BB



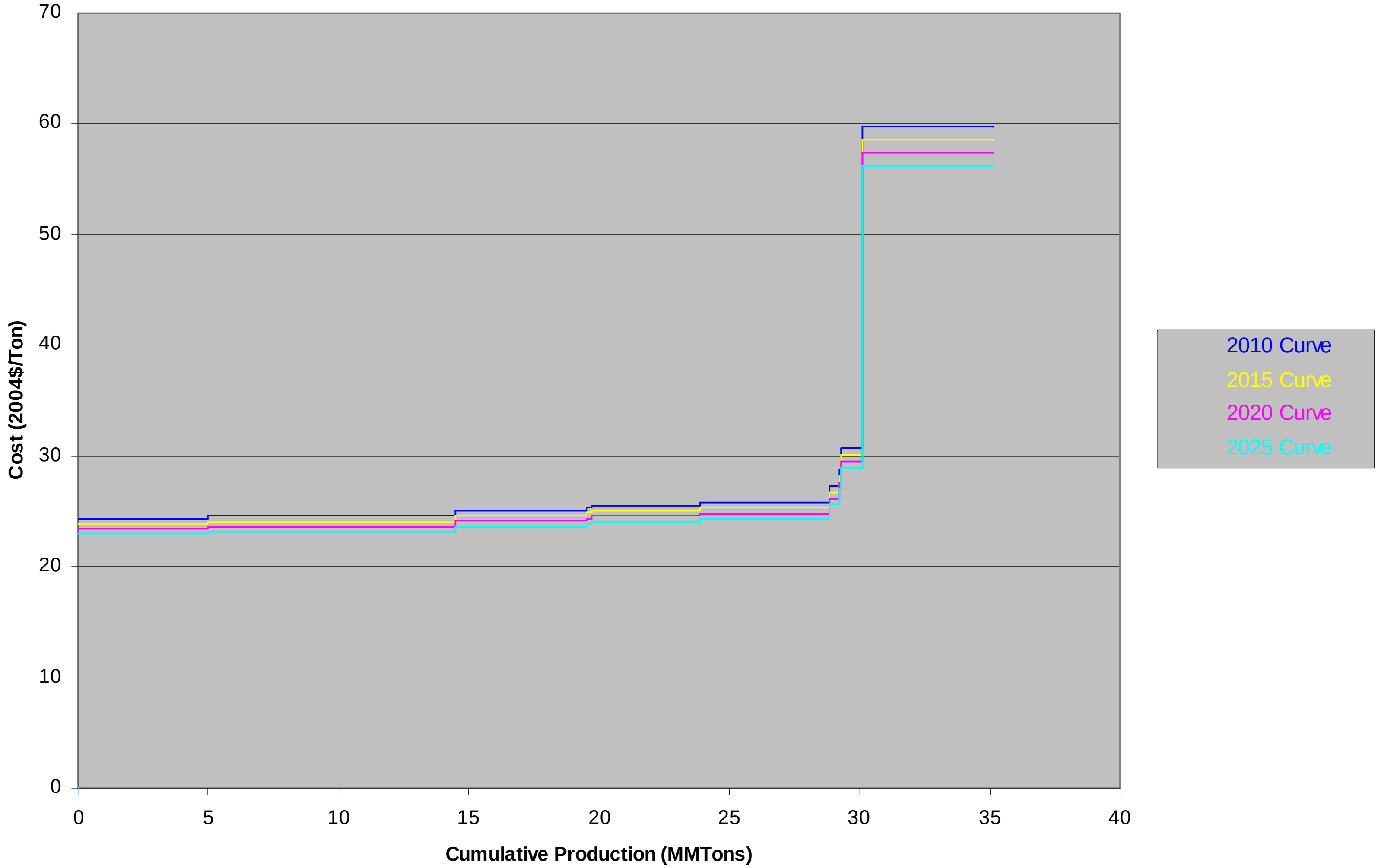
Coal Supply Curve - WN_BD

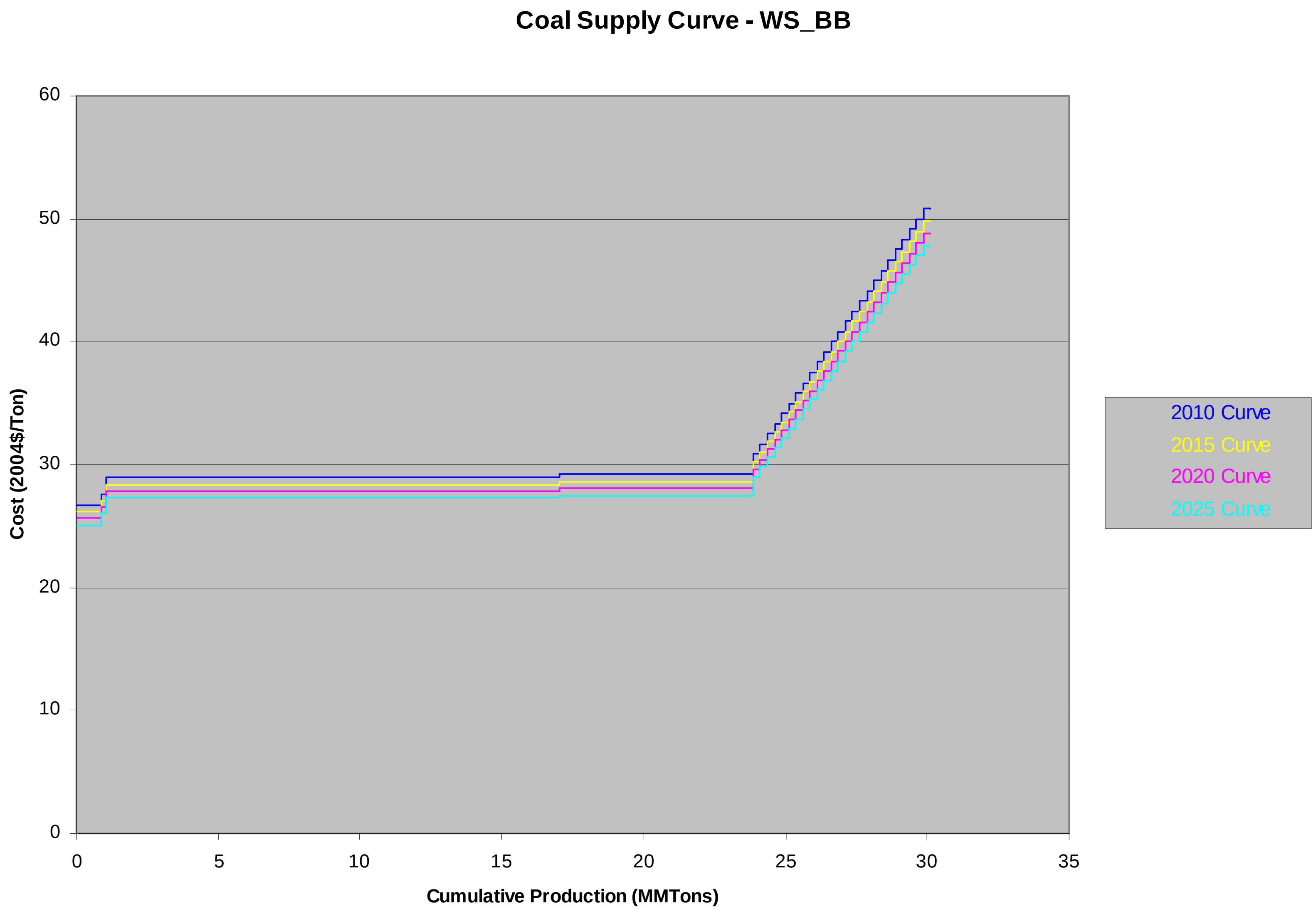



Coal Supply Curve - WN_BE
Cost (2004$/Ton)
0
10
20
30
40
50
60
70
0
2
4
6
8
10
12
14
16
18
20
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

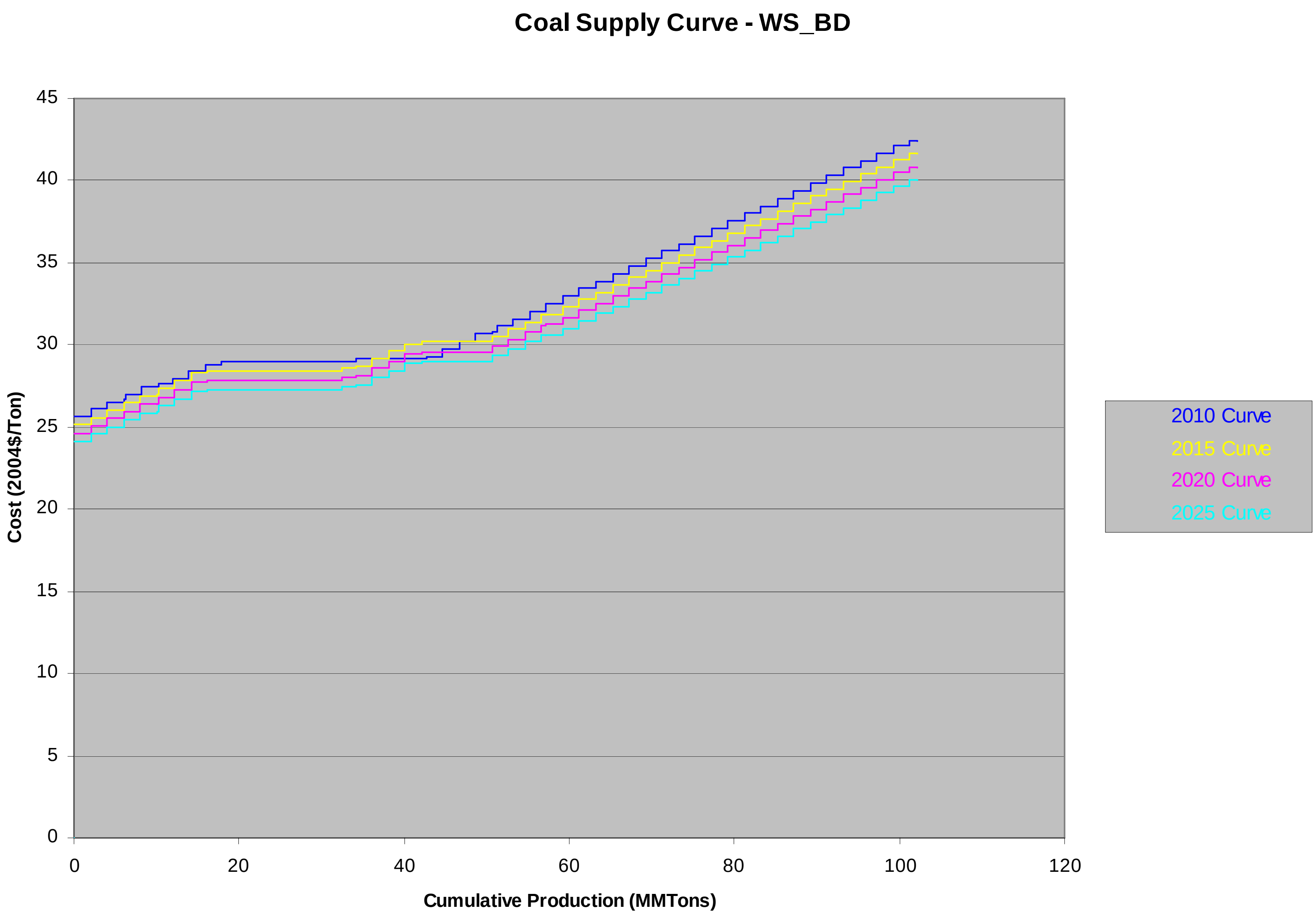

Coal Supply Curve - WN_BG
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
10
20
30
40
50
60
70
0
5
10
15
20
25
30
35
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - WN_BH

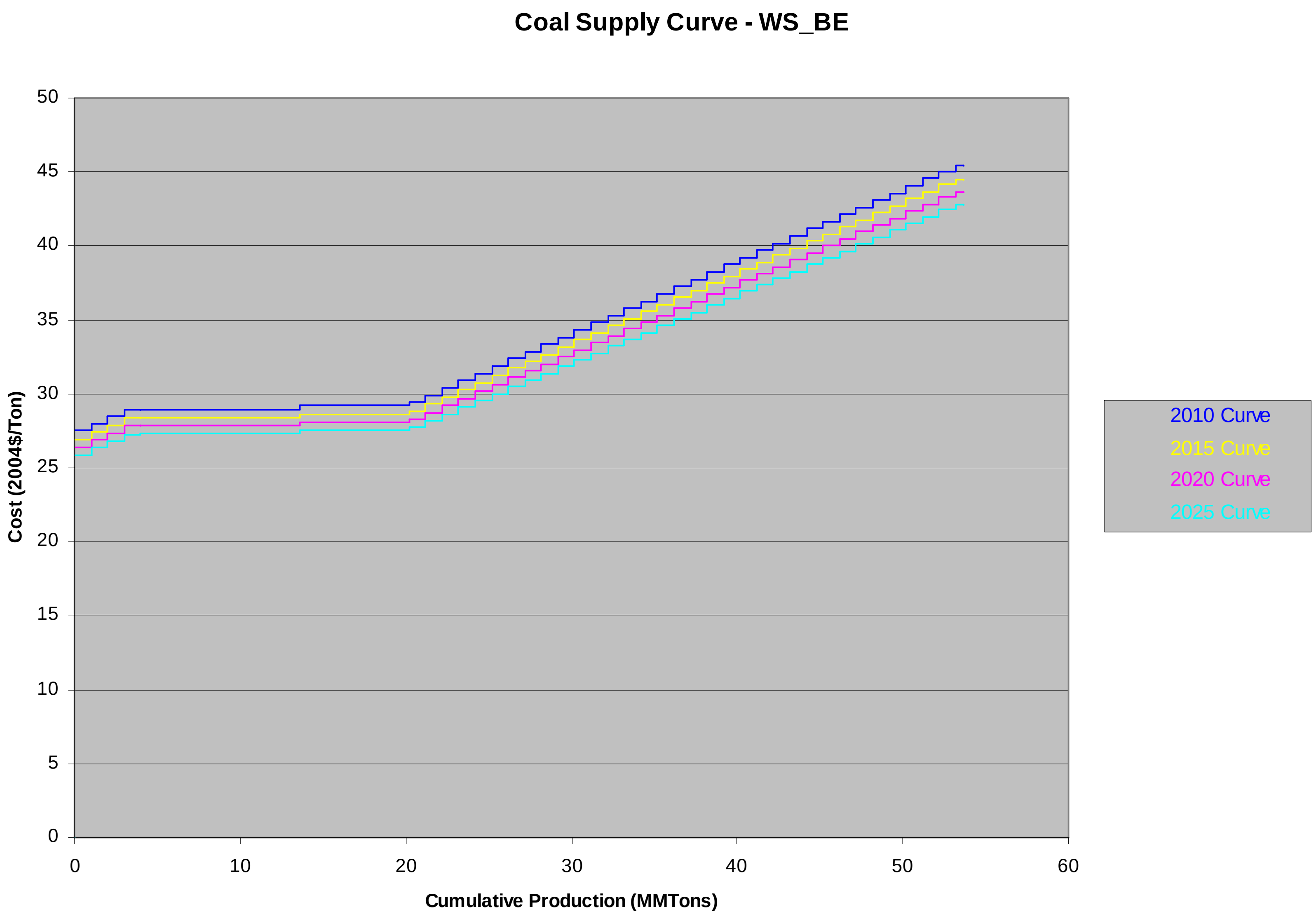




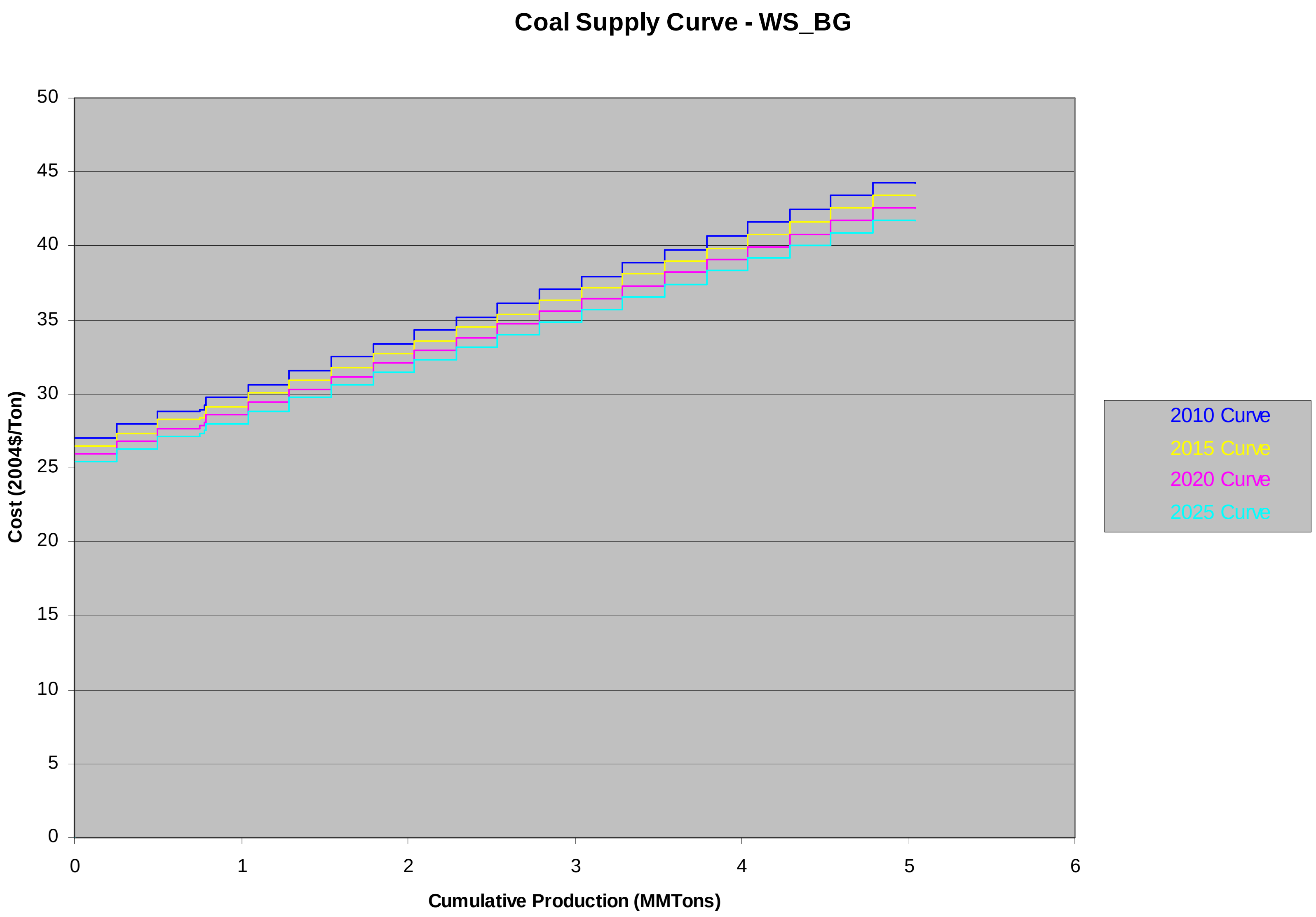
Coal Supply Curve - WS_BB
Cost (2004$/Ton)
0
10
20
30
40
50
60
0
5
10
15
20
25
30
35
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



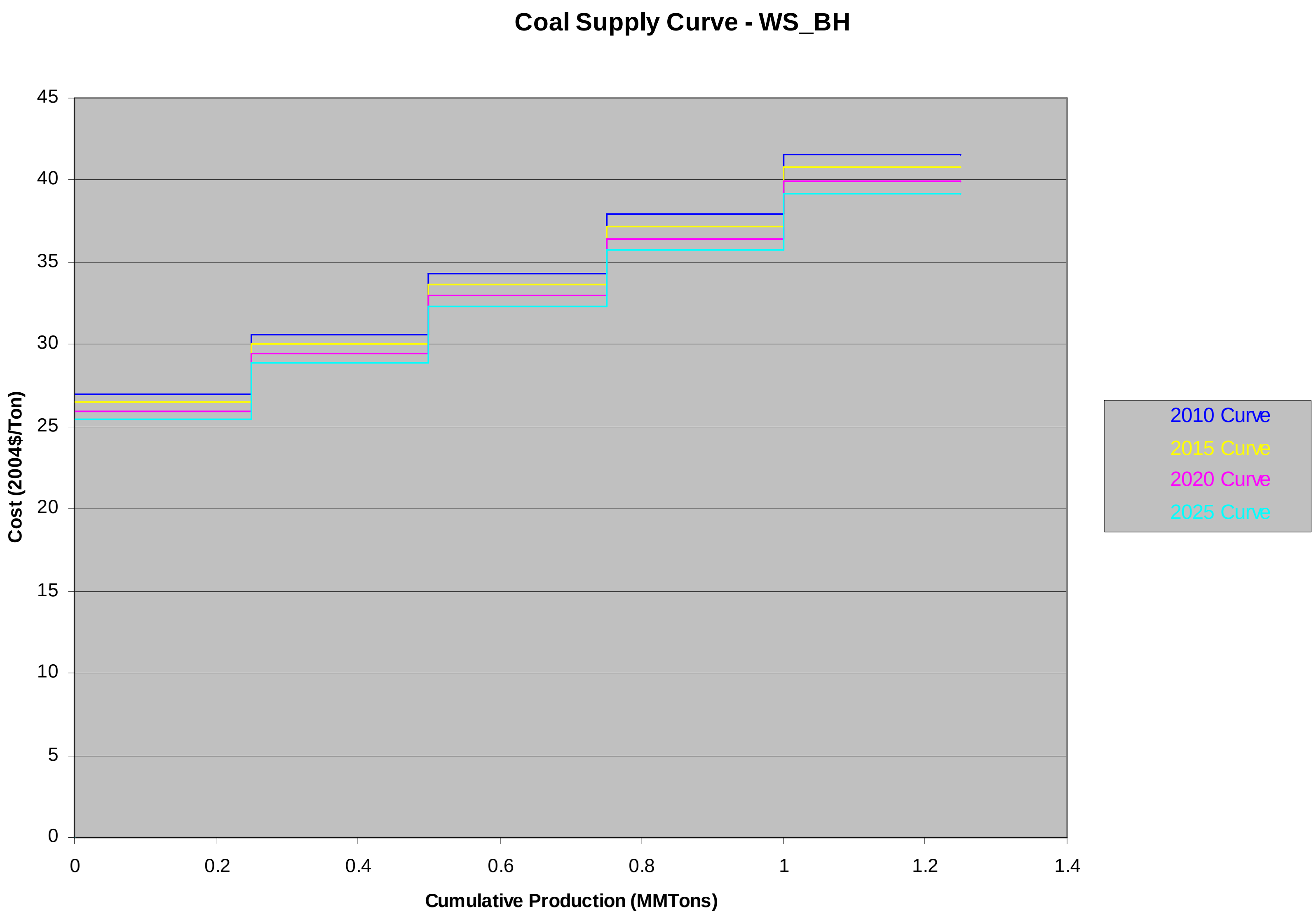
Coal Supply Curve - WS_BD
Cost (2004$/Ton)
0
5
10
15
20
25
30
35
40
45
0
20
40
60
80
100
120
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



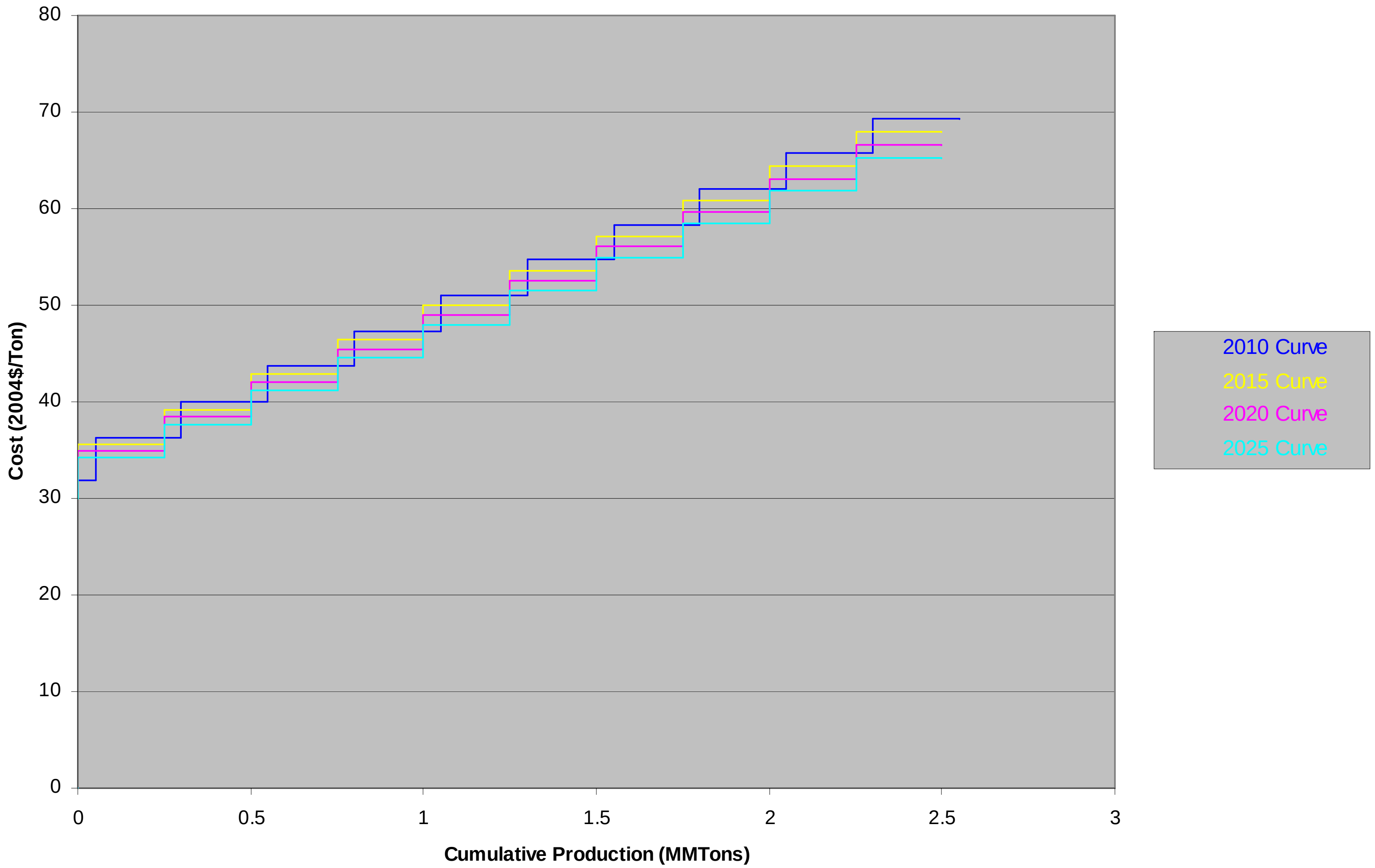
Coal Supply Curve - WS_BE
Cost (2004$/Ton)
50
45
40
35
30
25
20
15
10
5
0
0
10
20
30
40
50
60
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

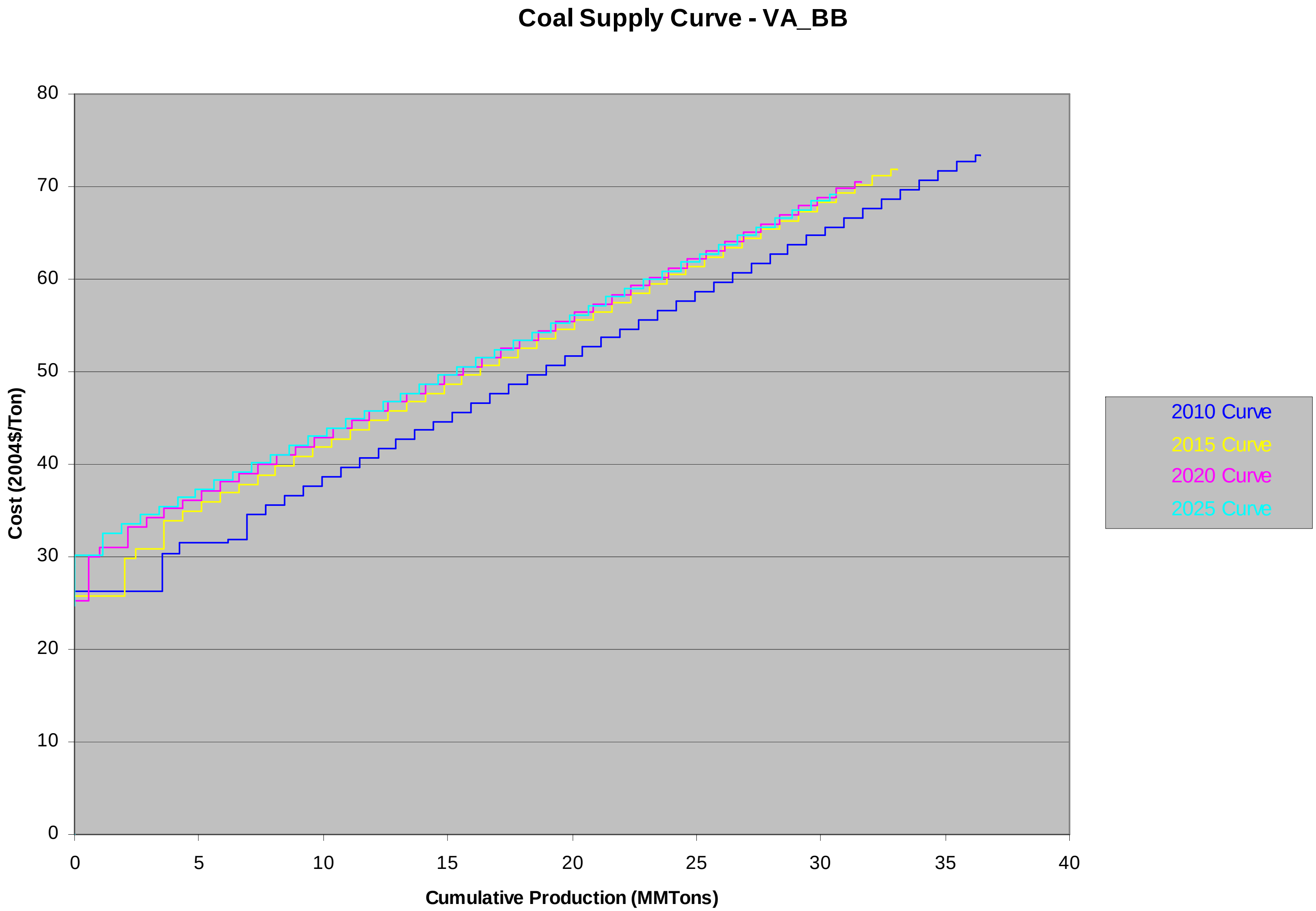


Coal Supply Curve - WS_BG
Cost (2004$/Ton)
0
5
10
15
20
25
30
35
40
45
50
0
1
2
3
4
5
6
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

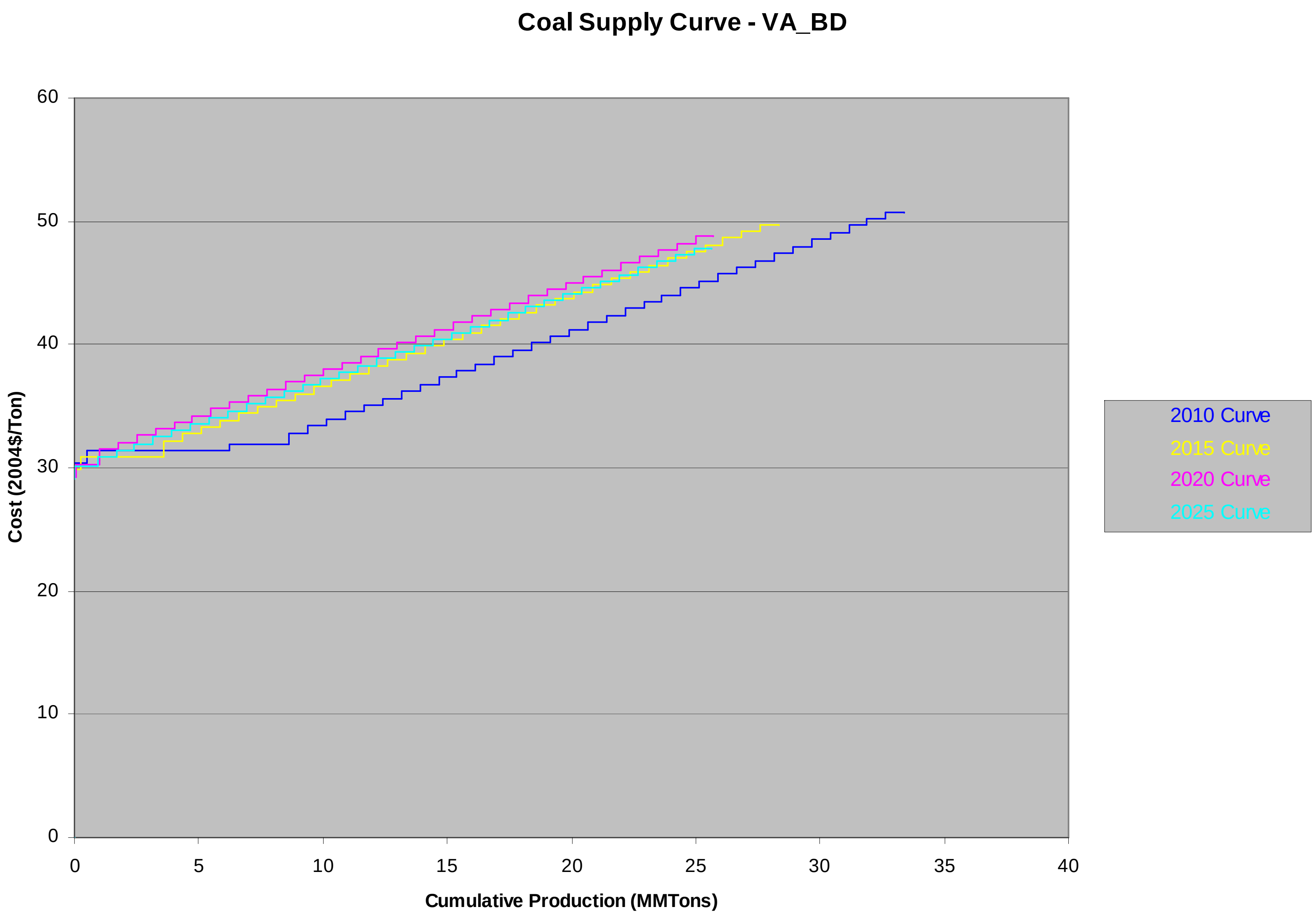

Coal Supply Curve - WS_BH
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
5
10
15
20
25
30
35
40
45
0
0.2
0.4
0.6
0.8
1
1.2
1.4
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - VA_BA

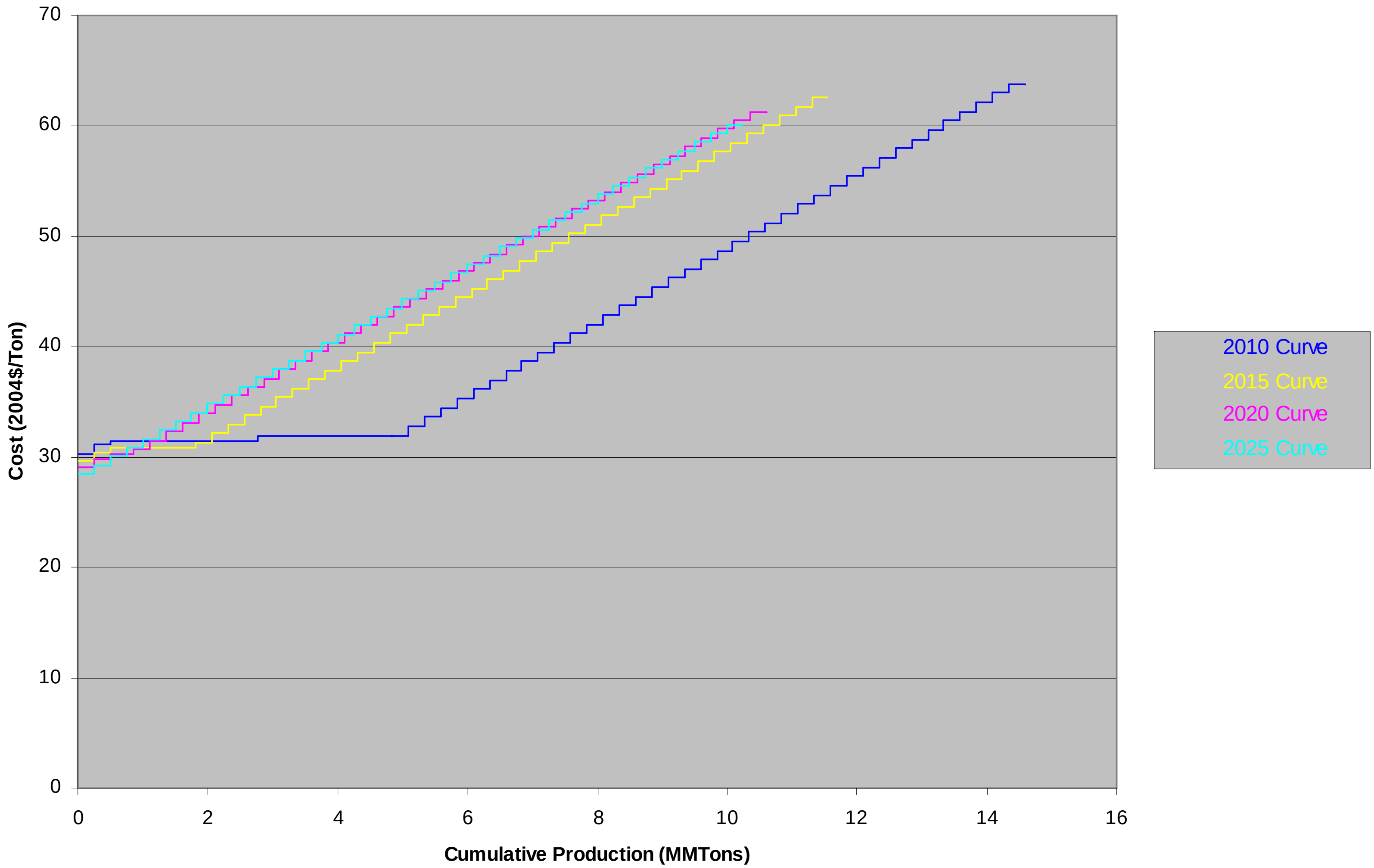




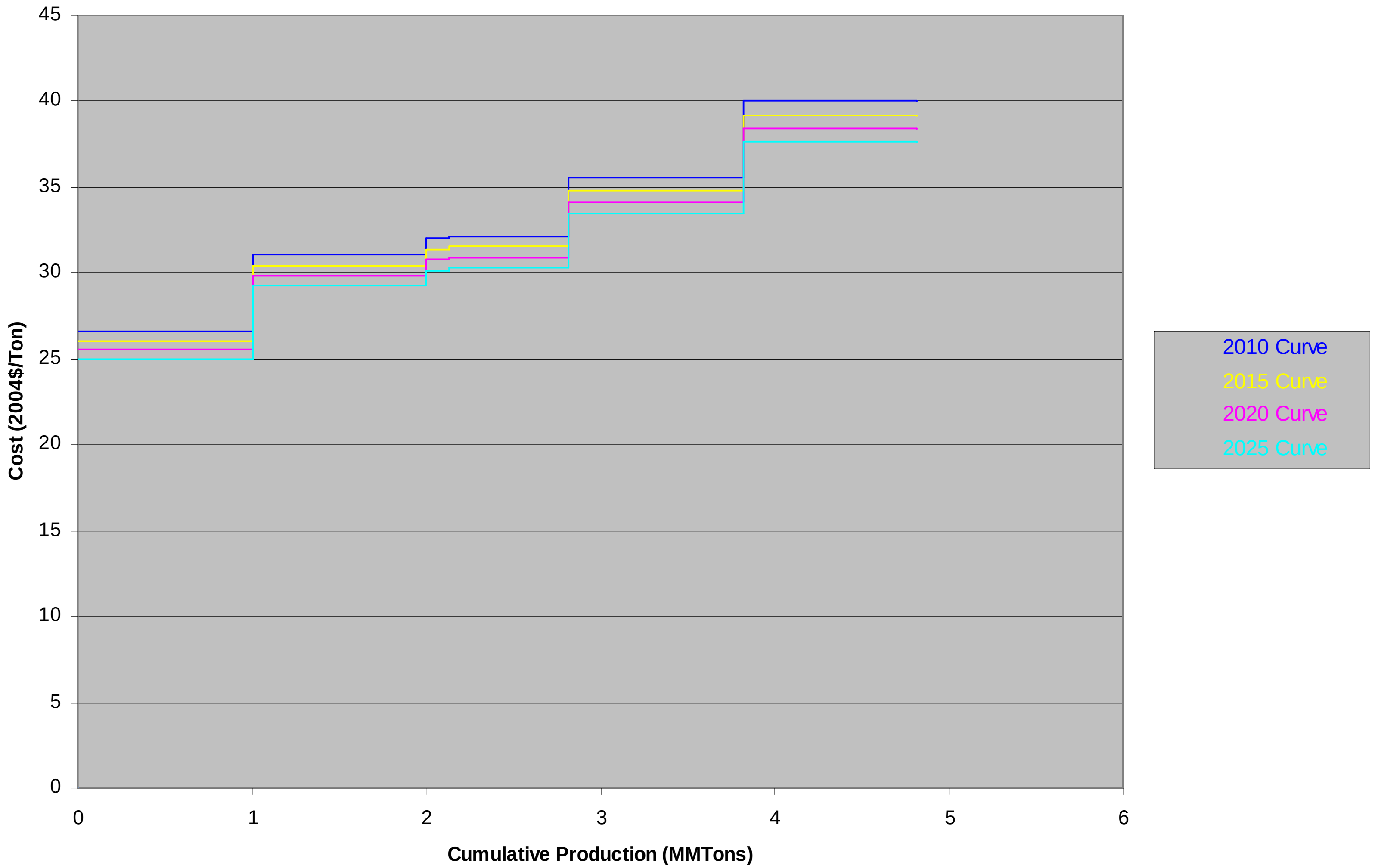
Coal Supply Curve - VA_BB
Cost (2004$/Ton)
0
10
20
30
40
50
60
70
80
0
5
10
15
20
25
30
35
40
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

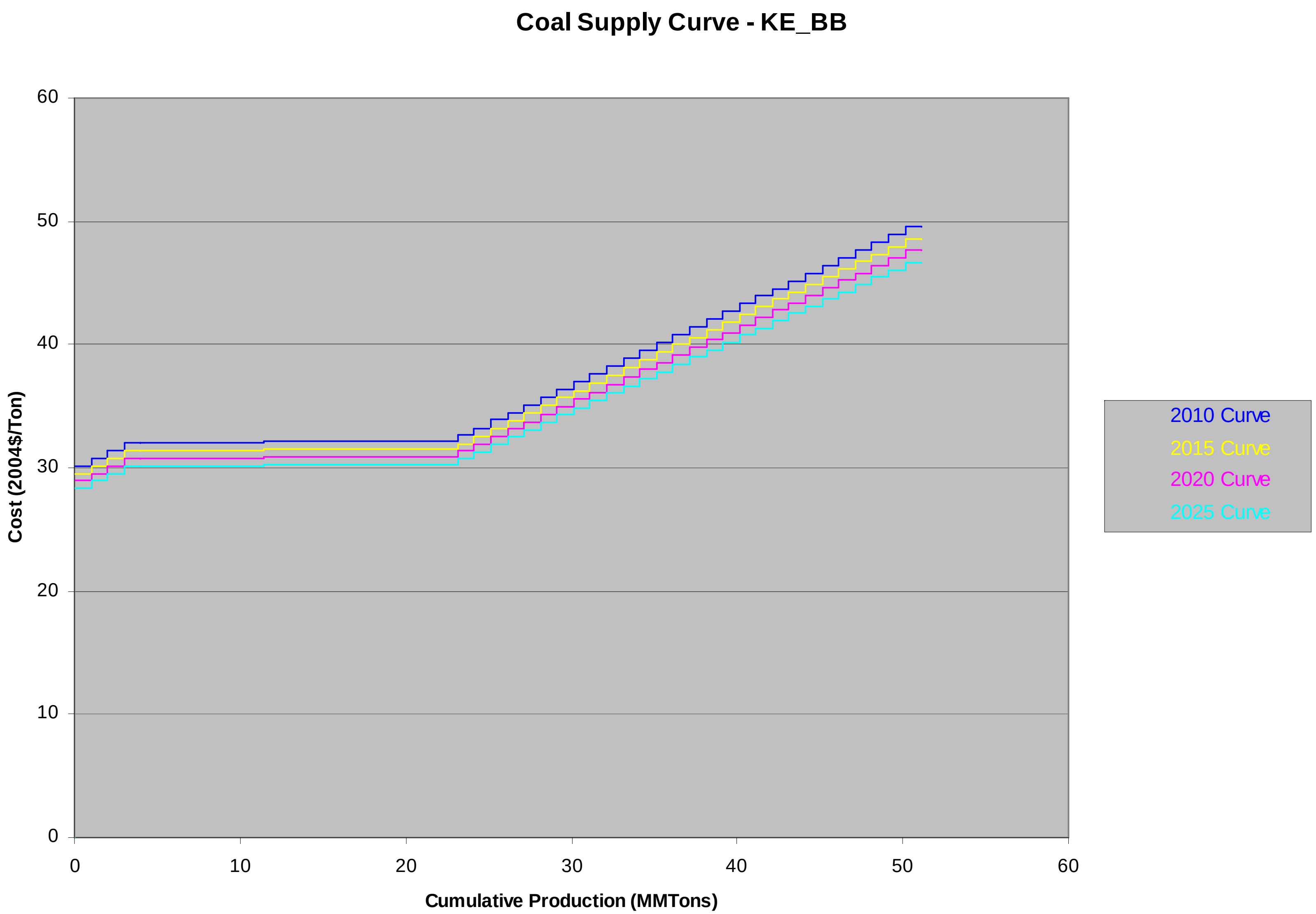

Coal Supply Curve - VA_BD
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
10
20
30
40
50
60
0
5
10
15
20
25
30
35
40
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - VA_BE

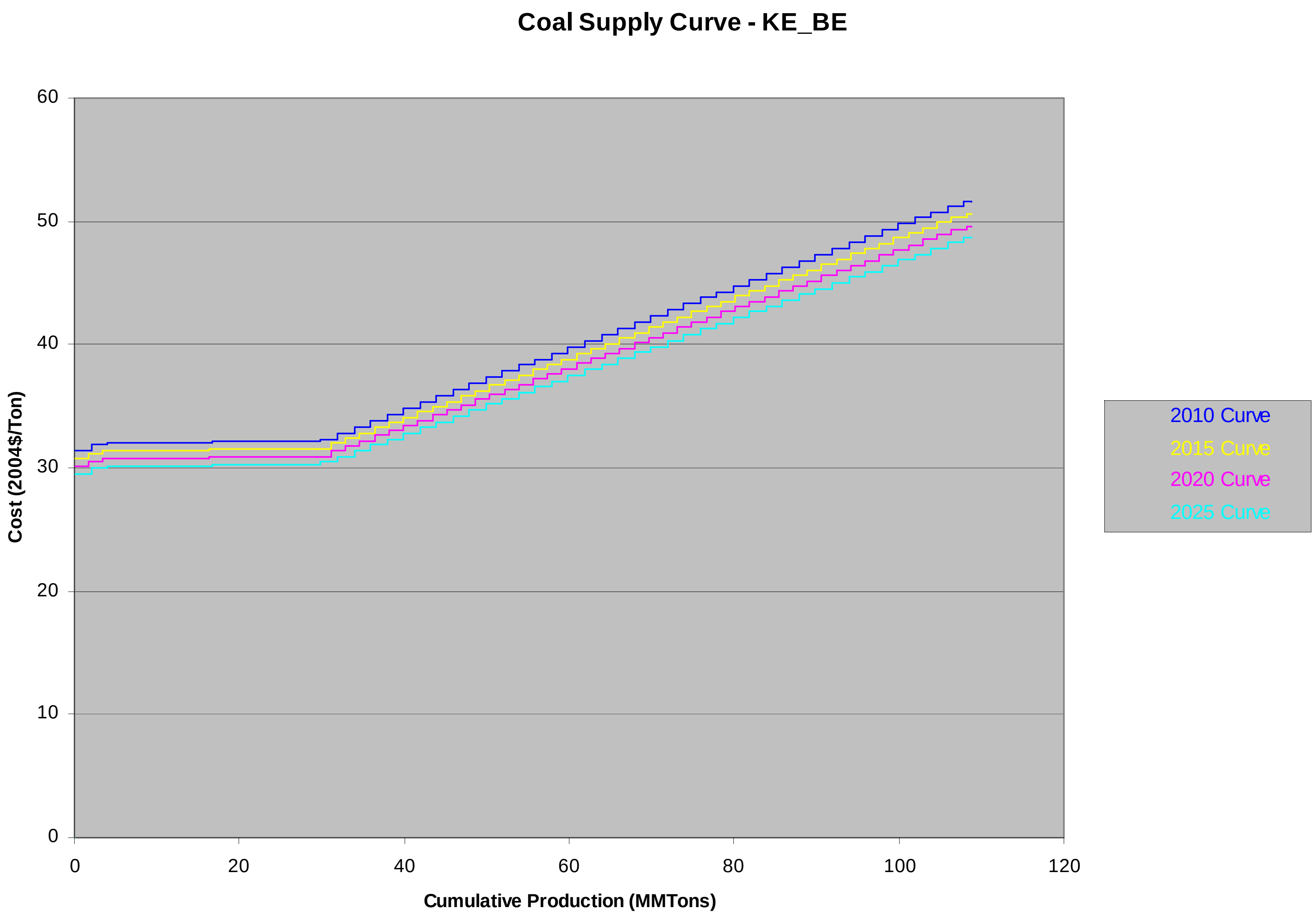


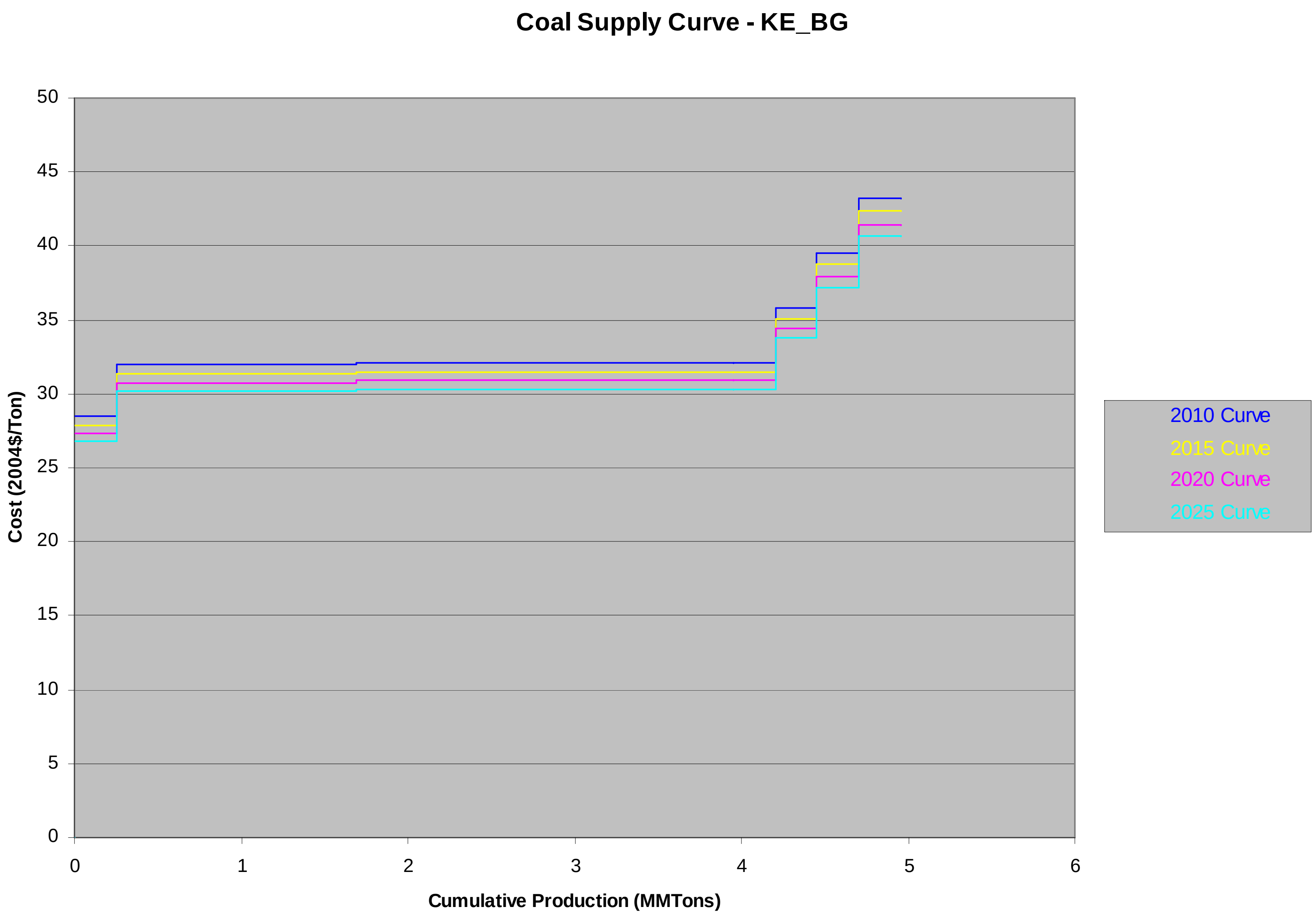
Coal Supply Curve - KE_BA



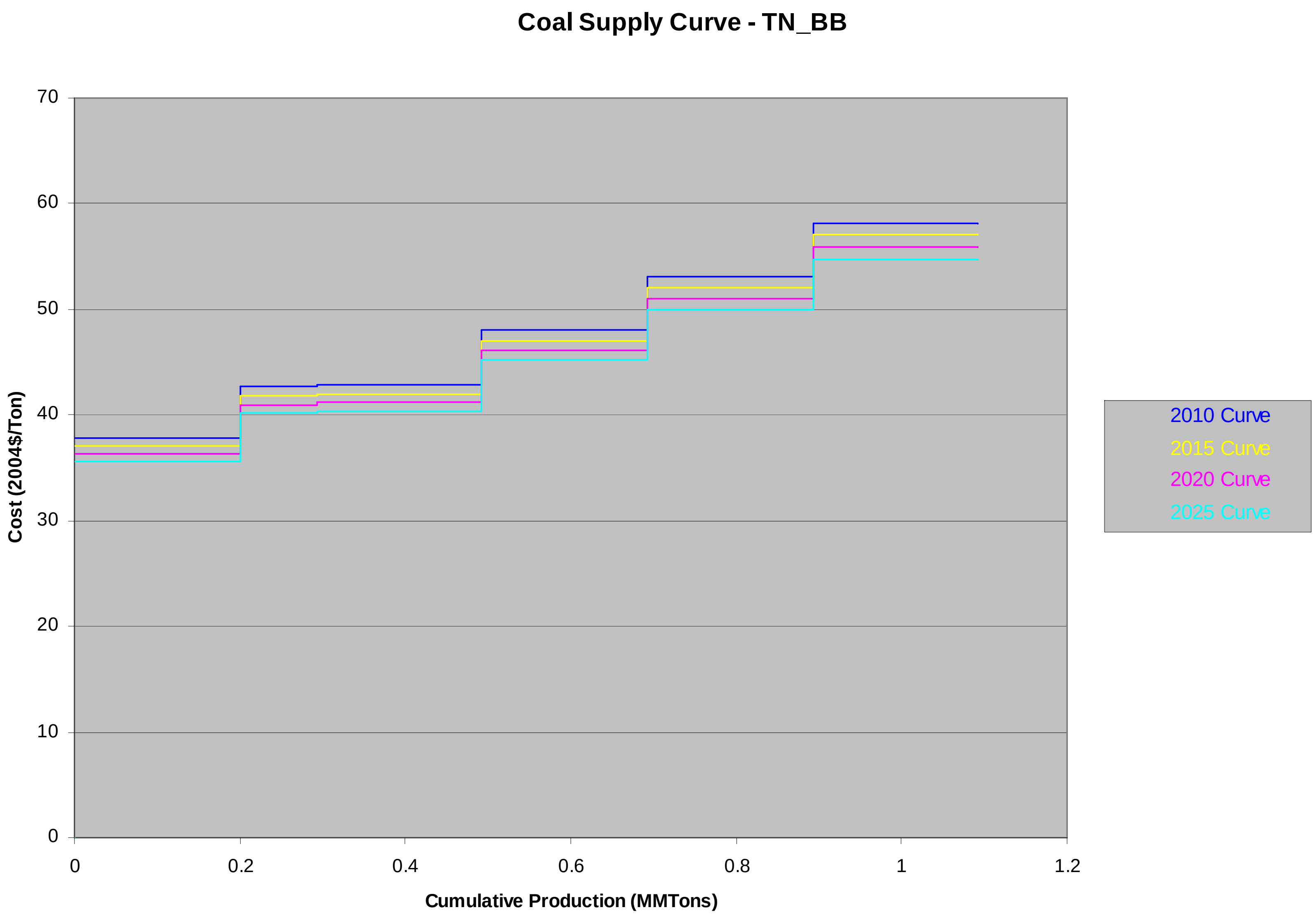

Coal Supply Curve - KE_BB
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
10
20
30
40
50
60
2010 Curve
2015 Curve
2020 Curve
2025 Curve


Coal Supply Curve - KE_BD
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
10
20
30
40
50
60
0
20
40
60
80
100
120
140
2010 Curve
2015 Curve
2020 Curve
2025 Curve


Coal Supply Curve - KE_BE
60
50
40
30
20
10
0
Cost (2004$/Ton)
0
20
40
60
80
100
120
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

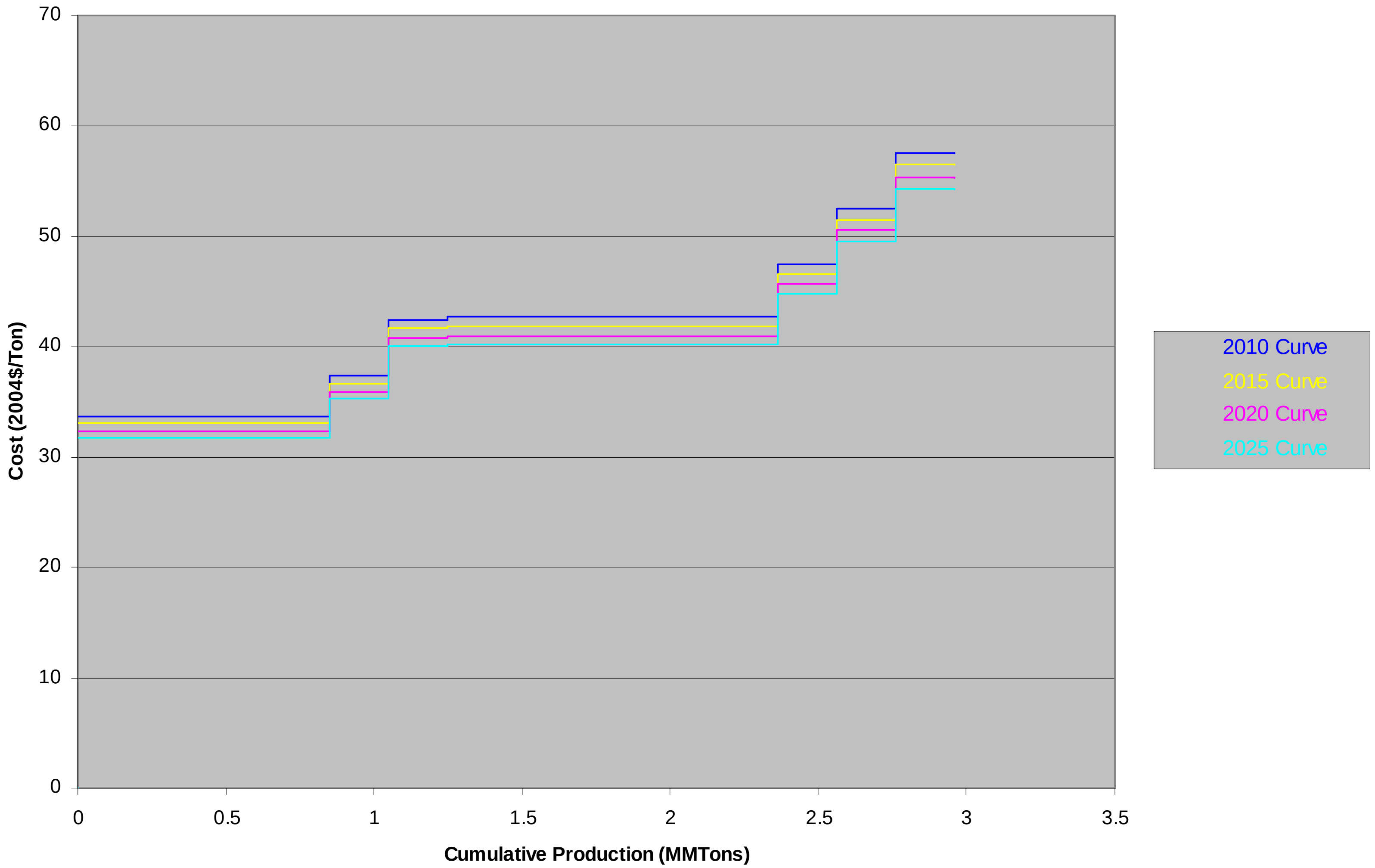


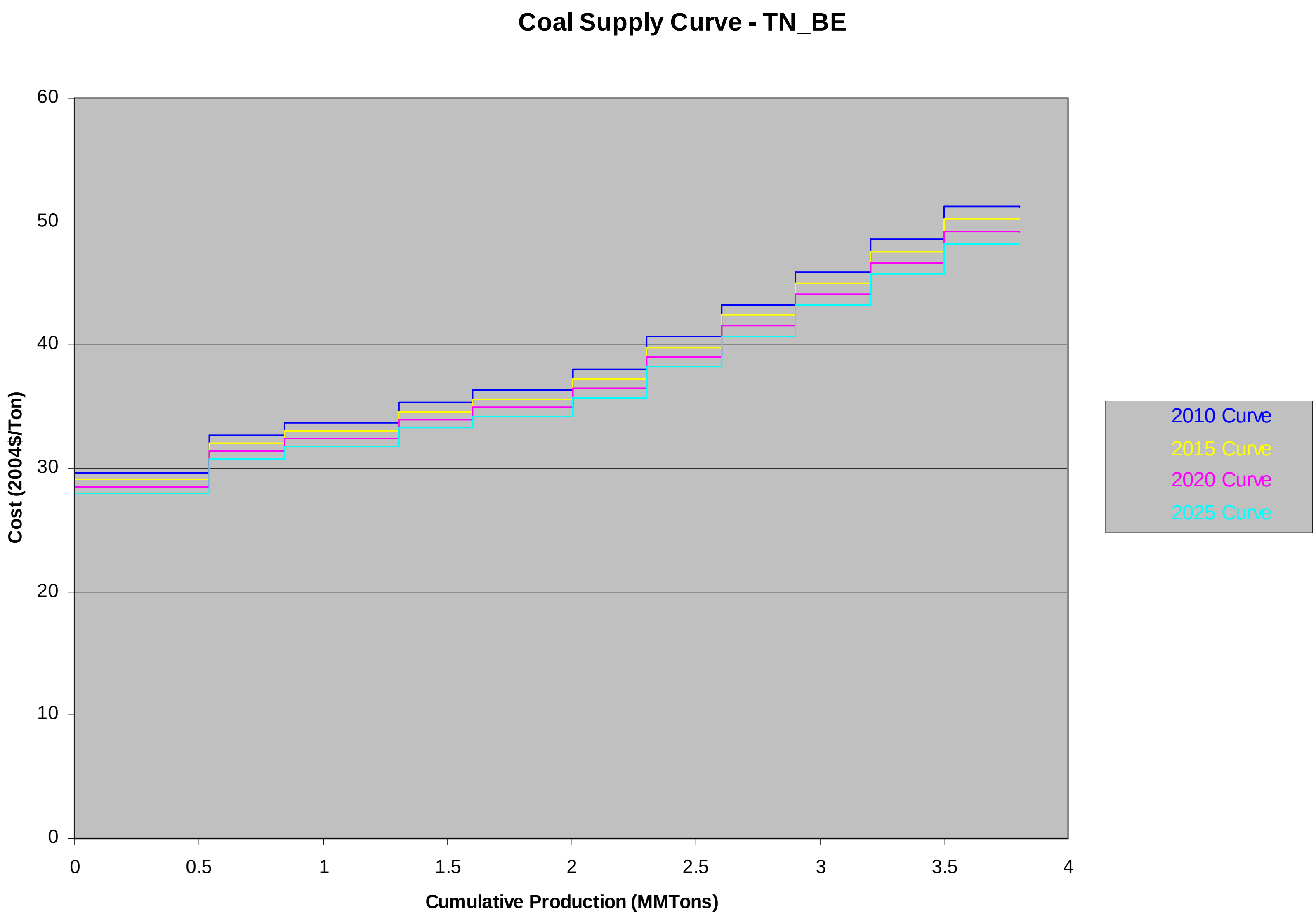
Coal Supply Curve - KE_BG
Cost (2004$/Ton)
50
45
40
35
30
25
20
15
10
5
0
0
1
2
3
4
5
6
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



Coal Supply Curve - TN_BB
Cost (2004$/Ton)
70
60
50
40
30
20
10
0
0
0.2
0.4
0.6
0.8
1
1.2
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

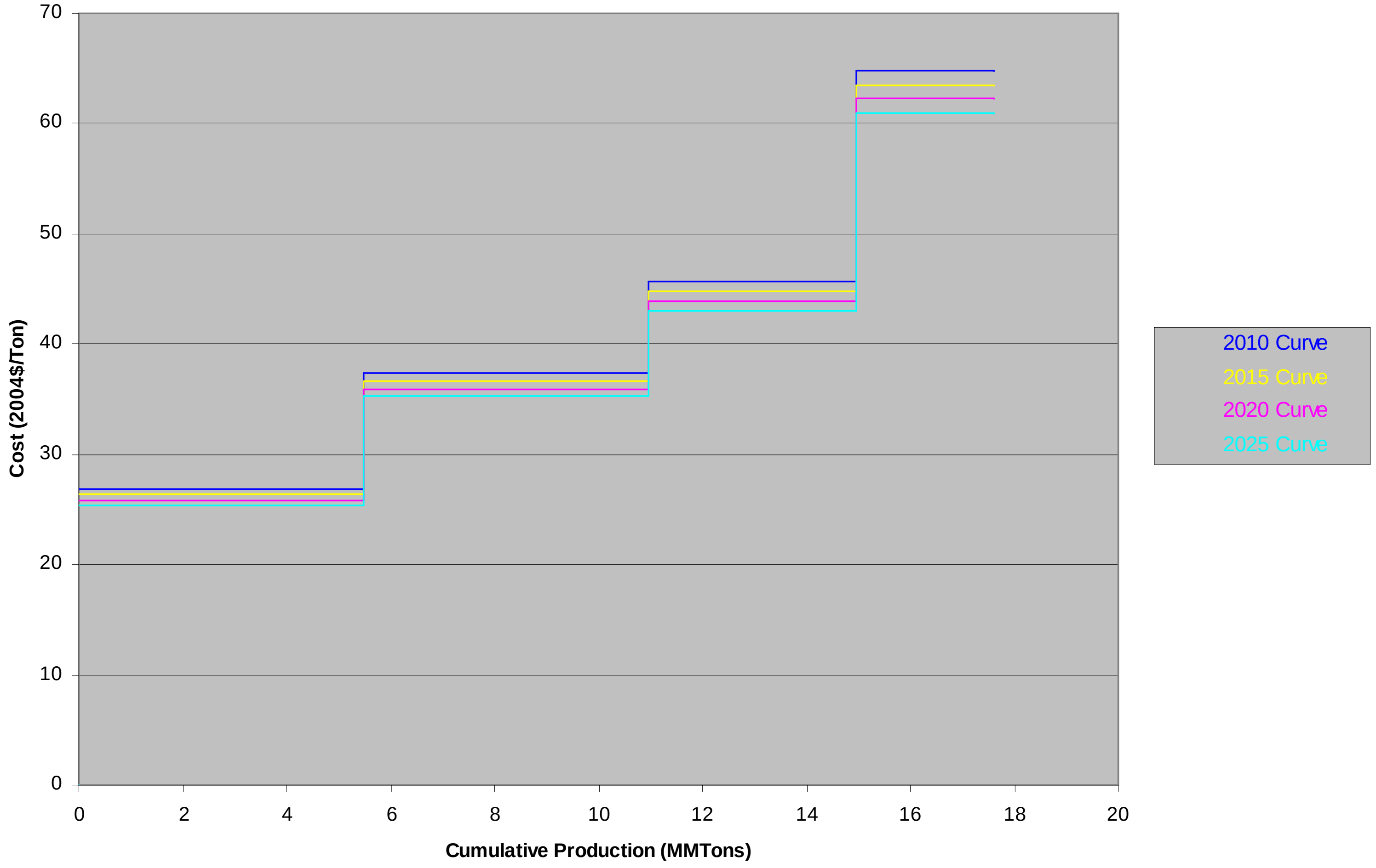
Coal Supply Curve - TN_BD

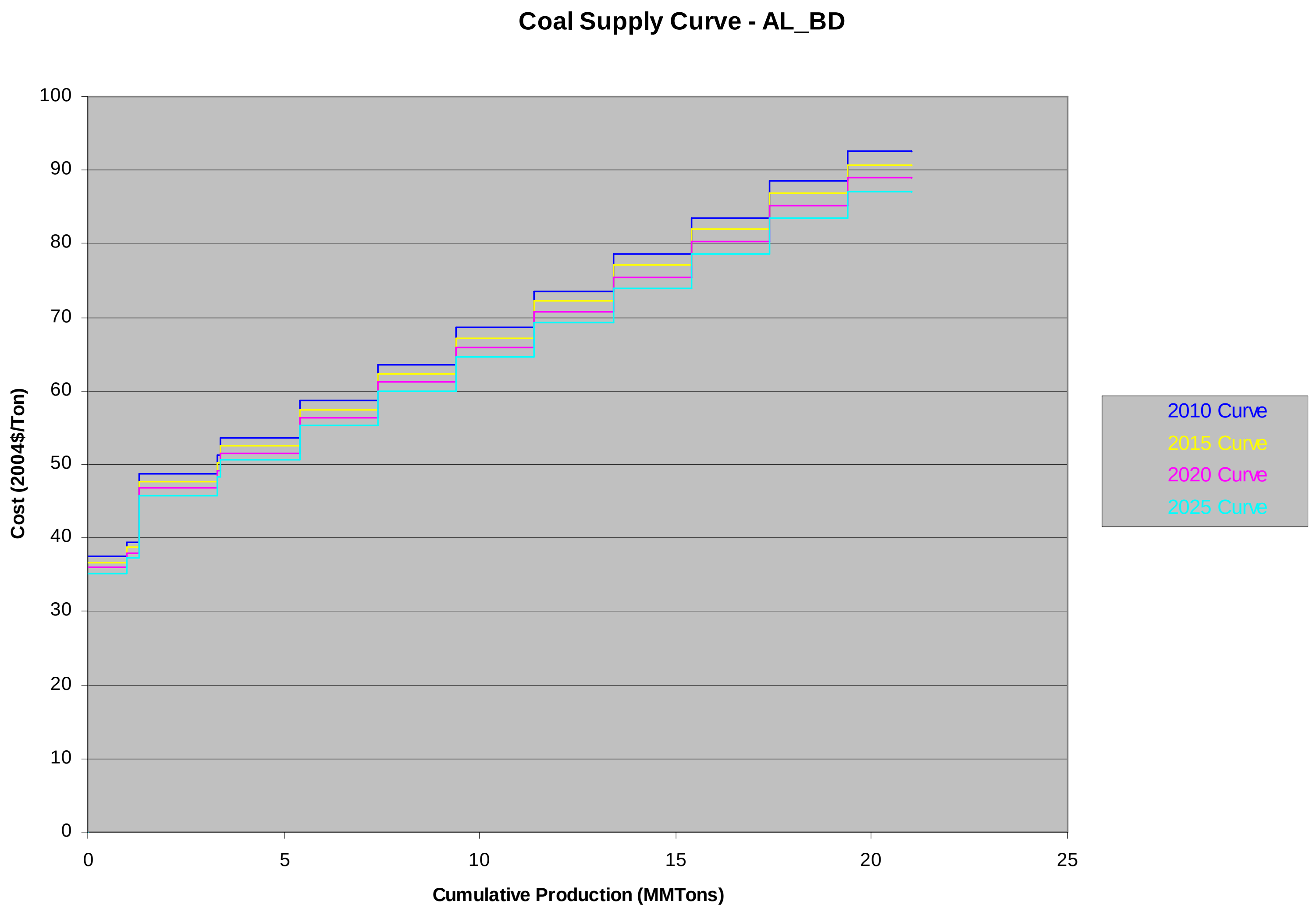


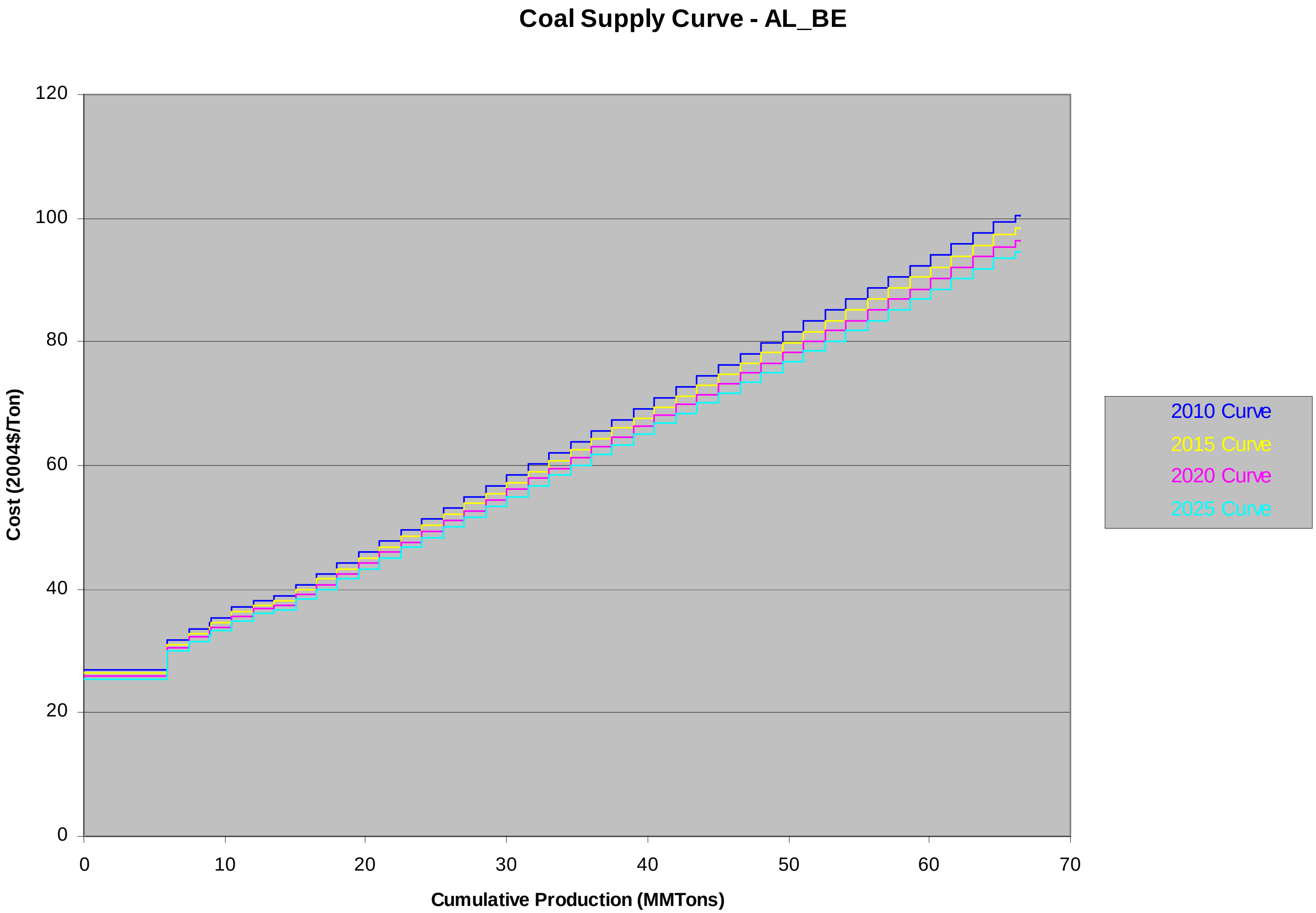


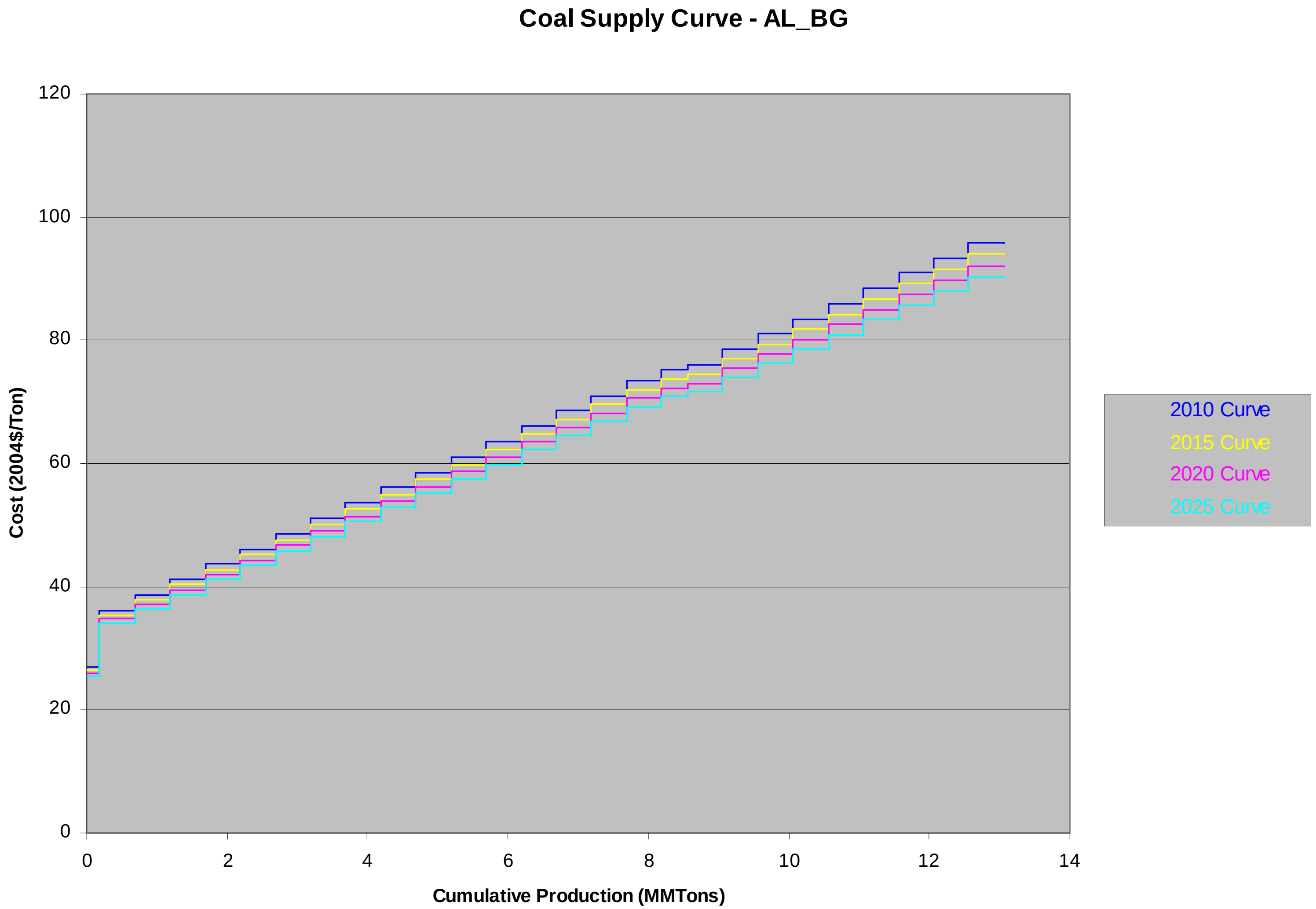
Coal Supply Curve - TN_BE
Cost (2004$/Ton)
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - AL_BB



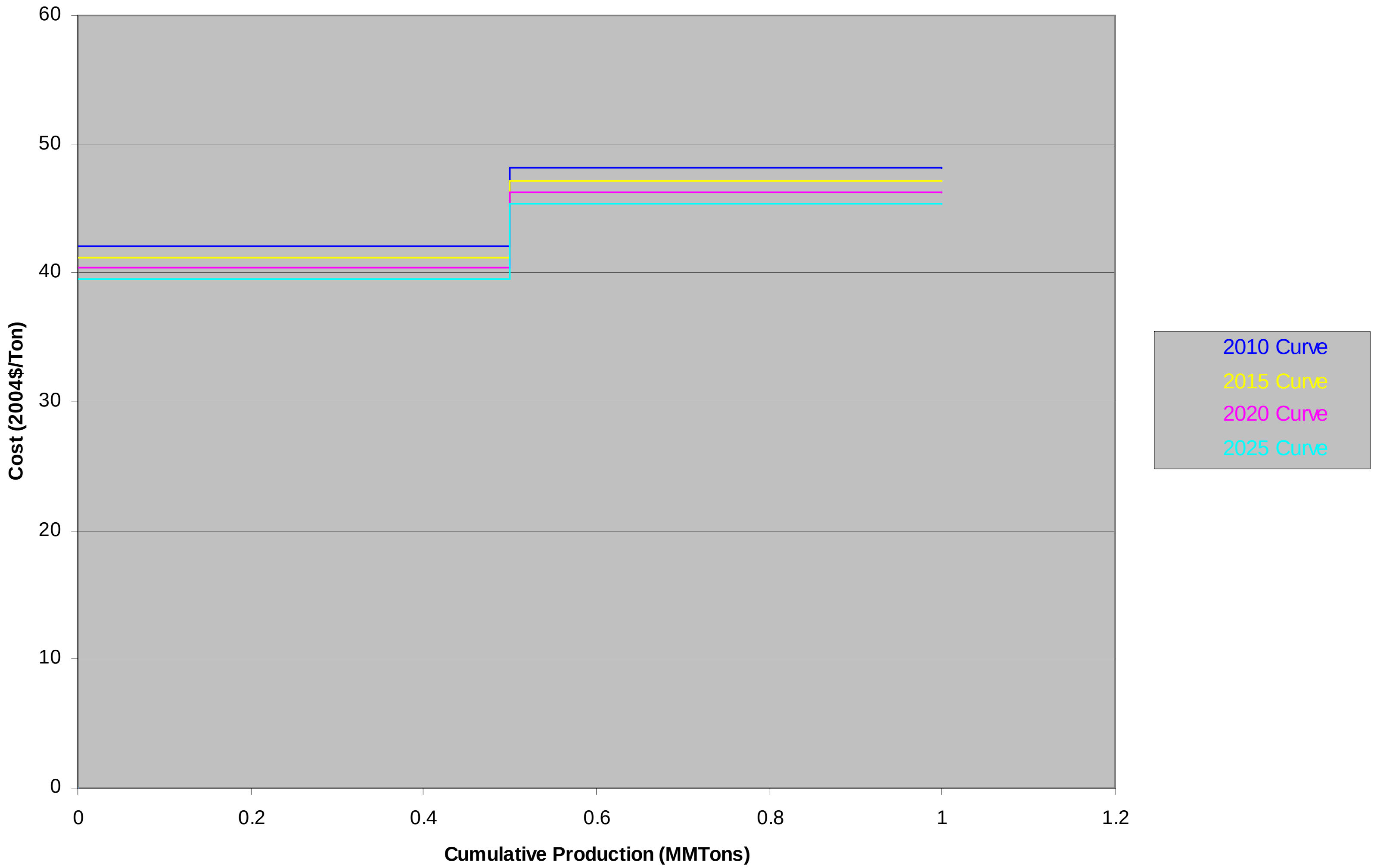

Coal Supply Curve - AL_BD
Cost (2004$/Ton)
100
90
80
70
60
50
40
30
20
10
0
0
5
10
15
20
25
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

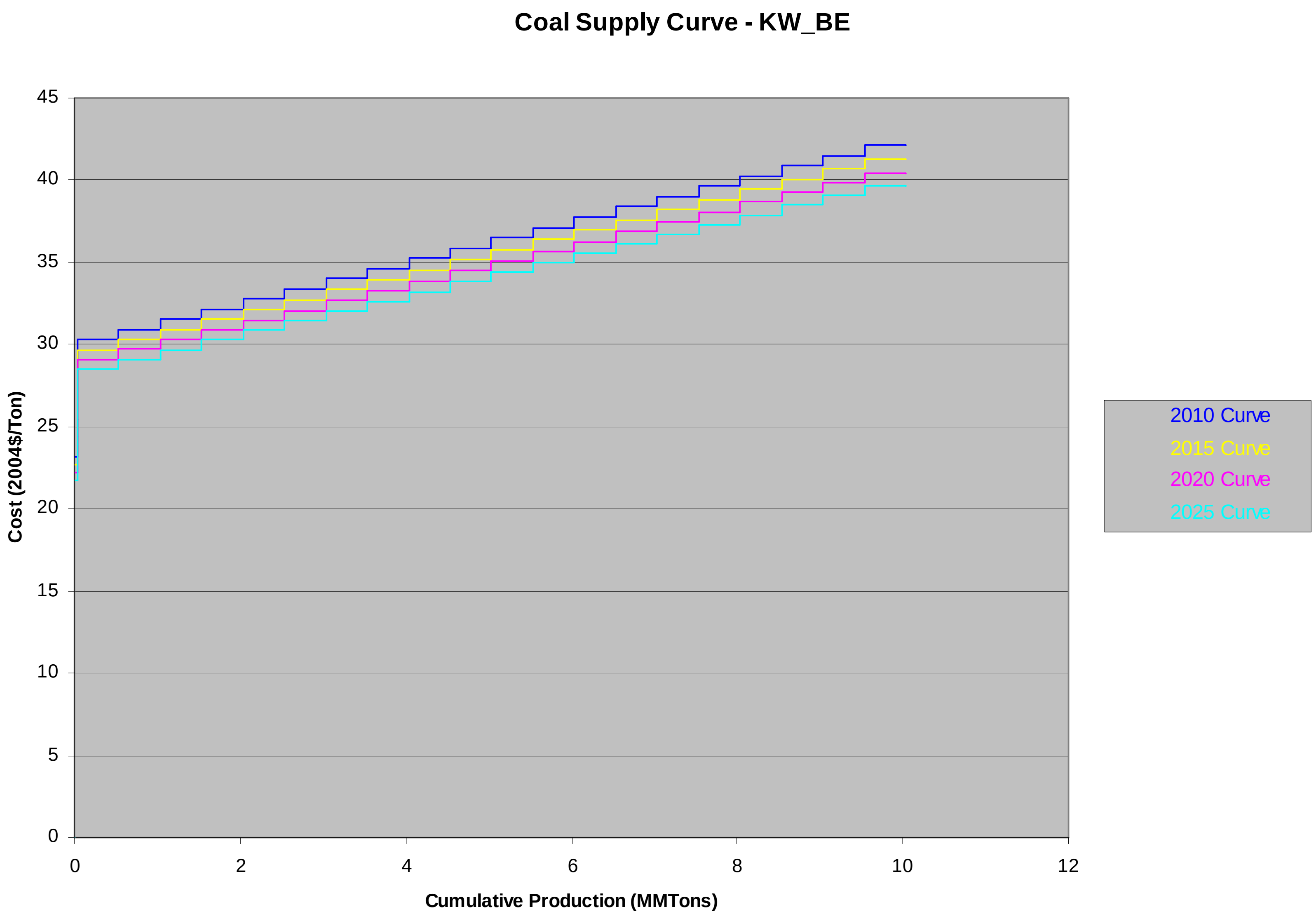

Coal Supply Curve - AL_BE
Cost (2004$/Ton)
0
20
40
60
80
100
120
0
10
20
30
40
50
60
70
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

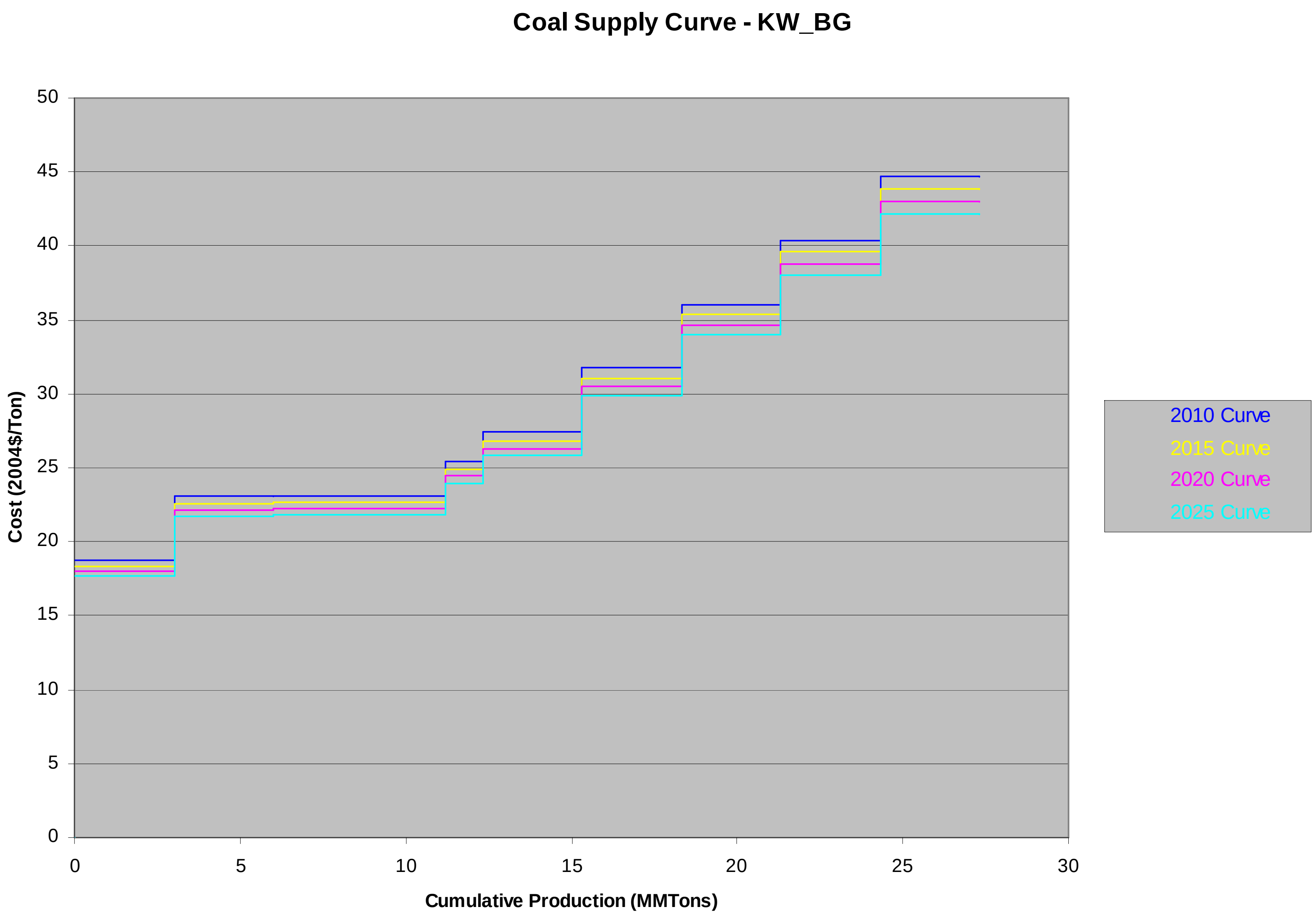


Coal Supply Curve - AL_BG
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
20
40
60
80
100
120
0
2
4
6
8
10
12
14
2010 Curve
2015 Curve
2020 Curve
2025 Curve

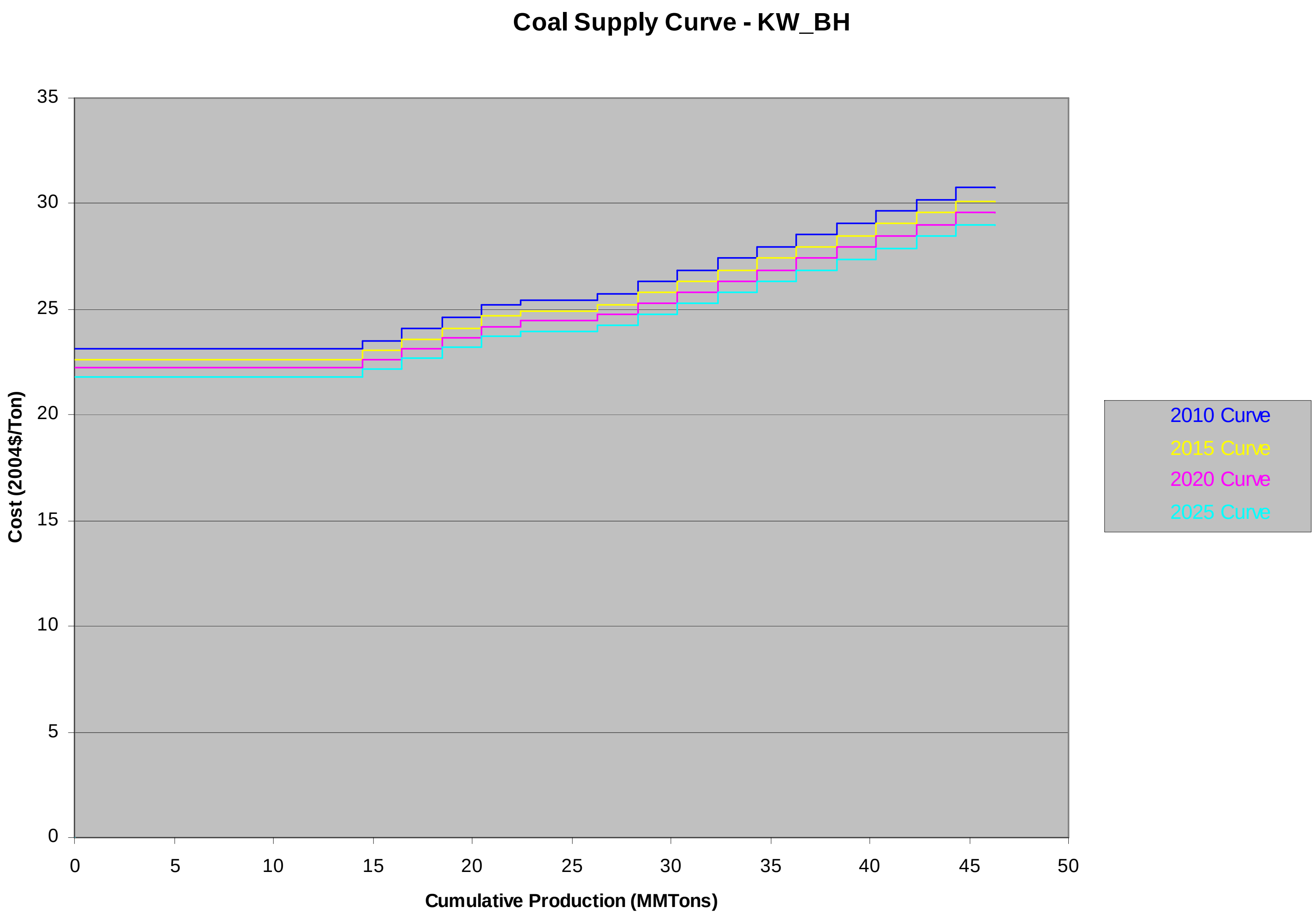
Coal Supply Curve - KW_BD

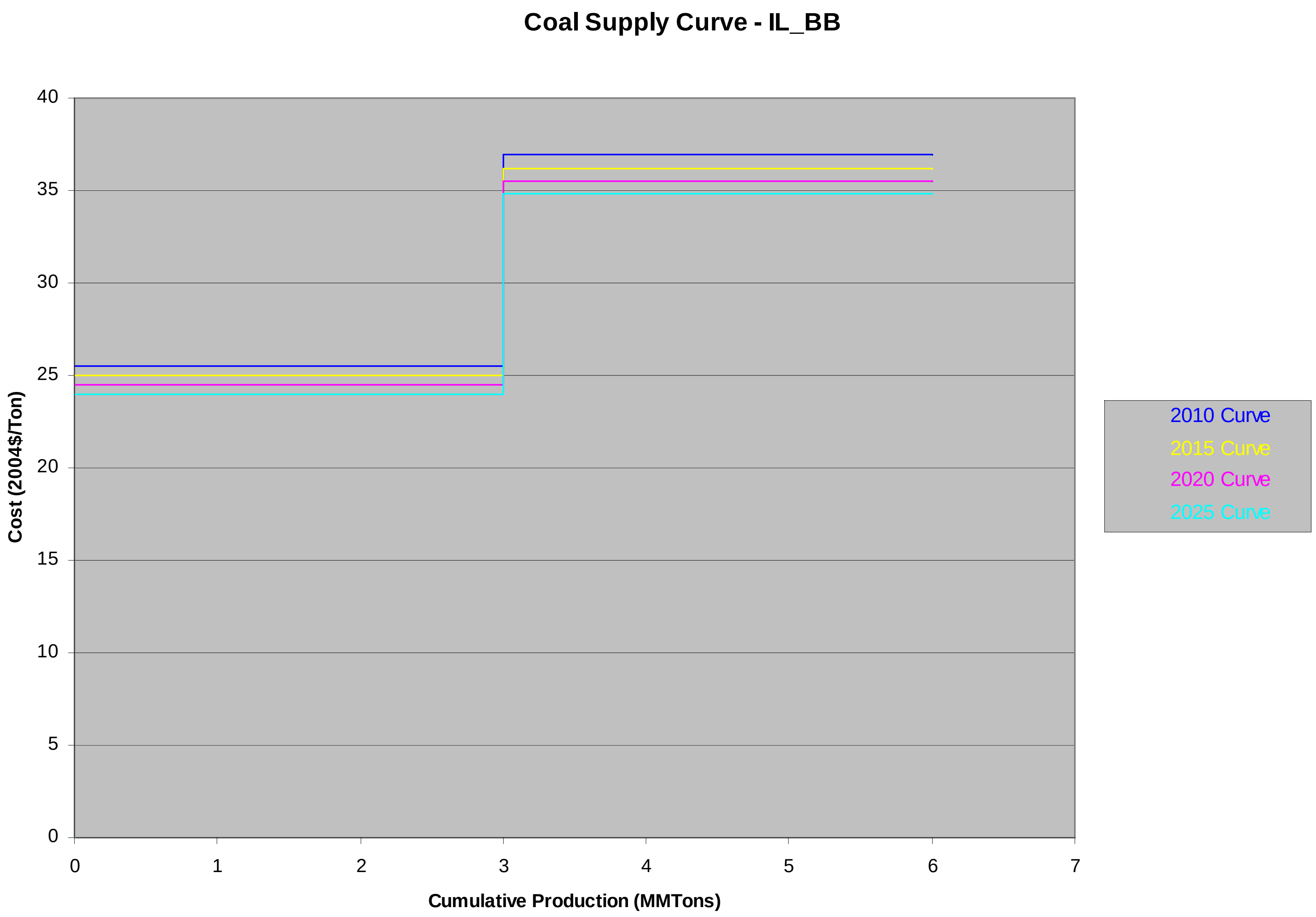



Coal Supply Curve - KW_BE
Cost (2004$/Ton)
Cumulative Production (MMTons)
45
40
35
30
25
20
15
10
5
0
0
2
4
6
8
10
12
2010 Curve
2015 Curve
2020 Curve
2025 Curve

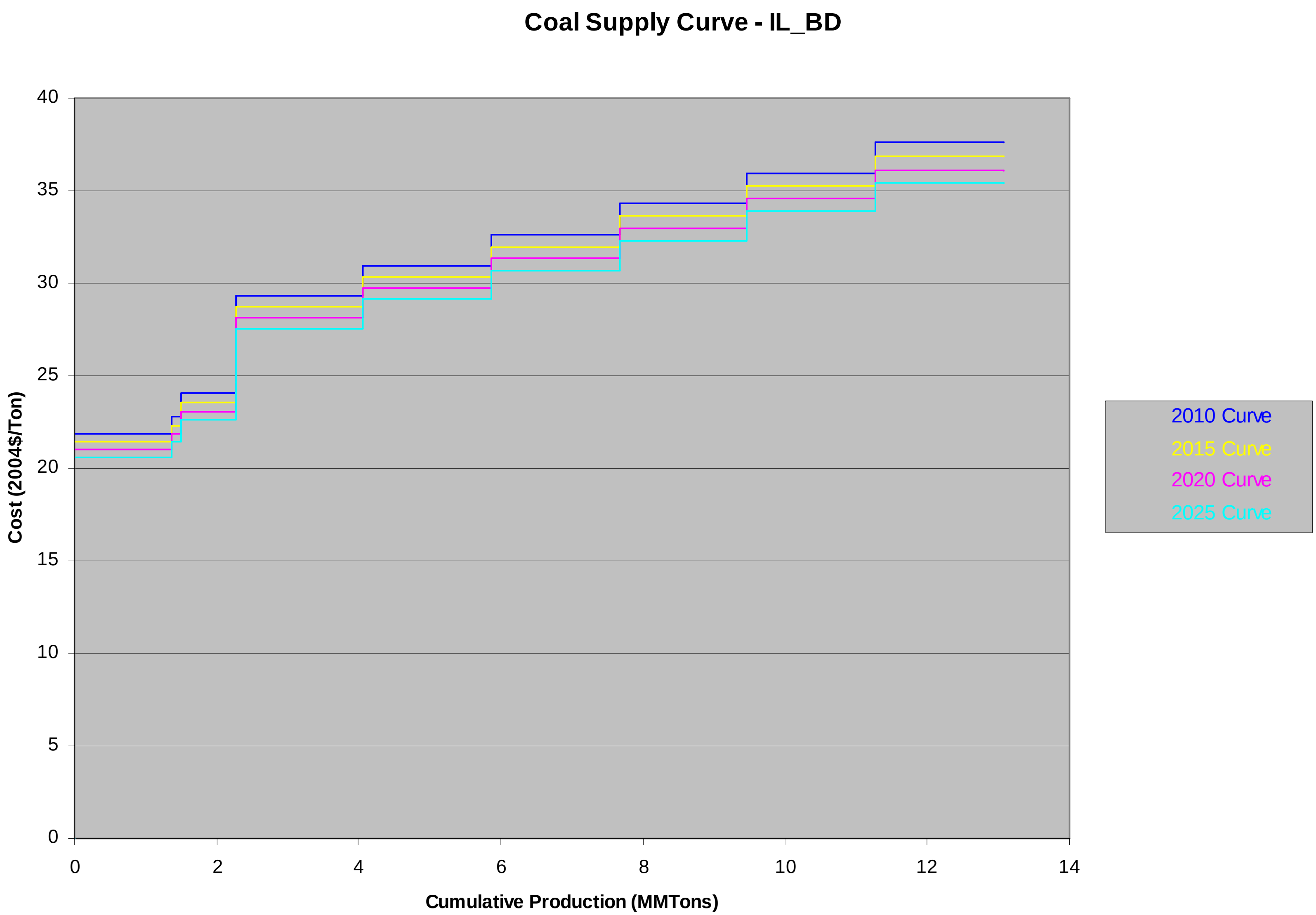


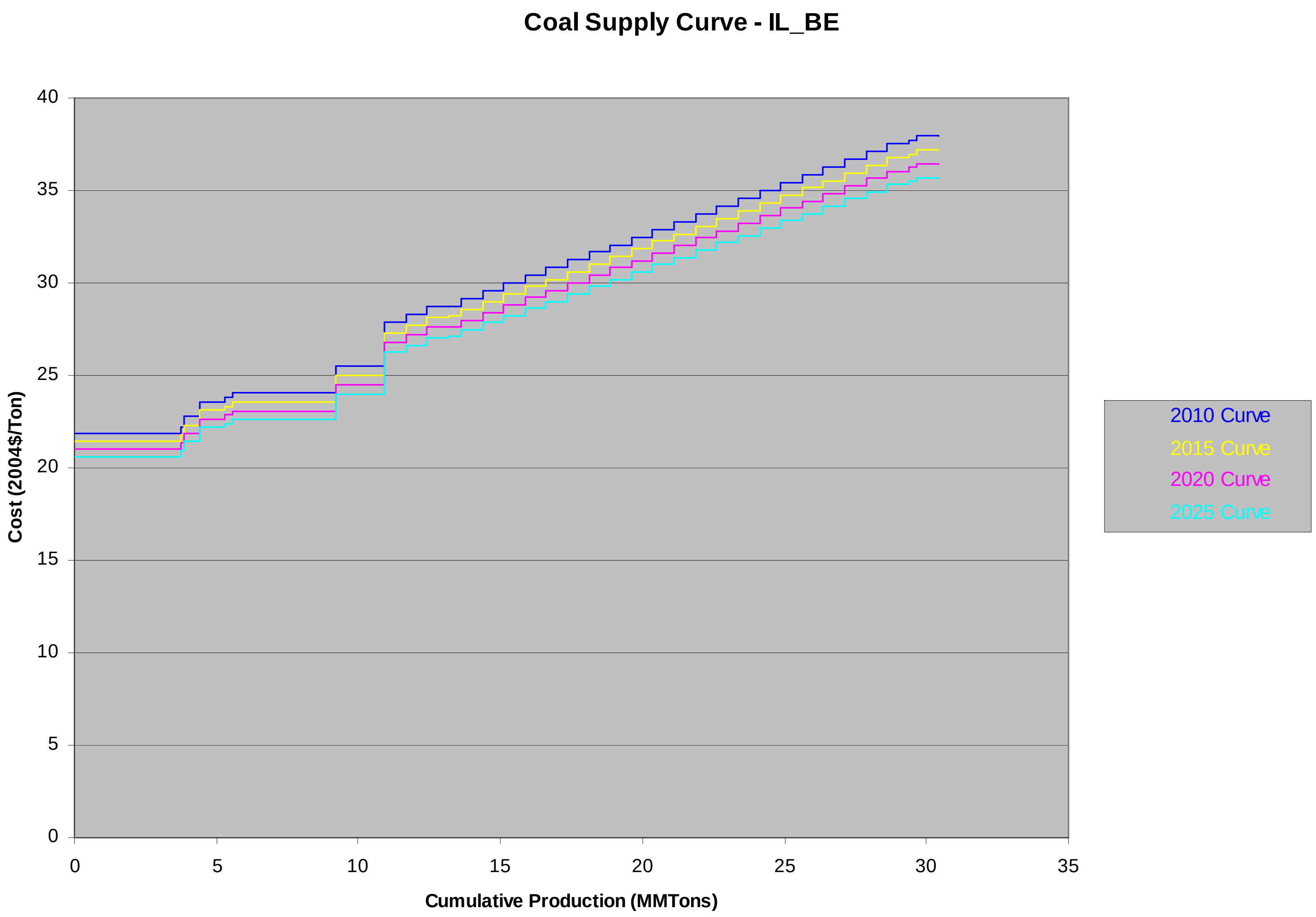
Coal Supply Curve - KW_BG
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
5
10
15
20
25
30
35
40
45
50
0
5
10
15
20
25
30
2010 Curve
2015 Curve
2020 Curve
2025 Curve


Coal Supply Curve - KW_BH
Cost (2004$/Ton)
35
30
25
20
15
10
5
0
0
5
10
15
20
25
30
35
40
45
50
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

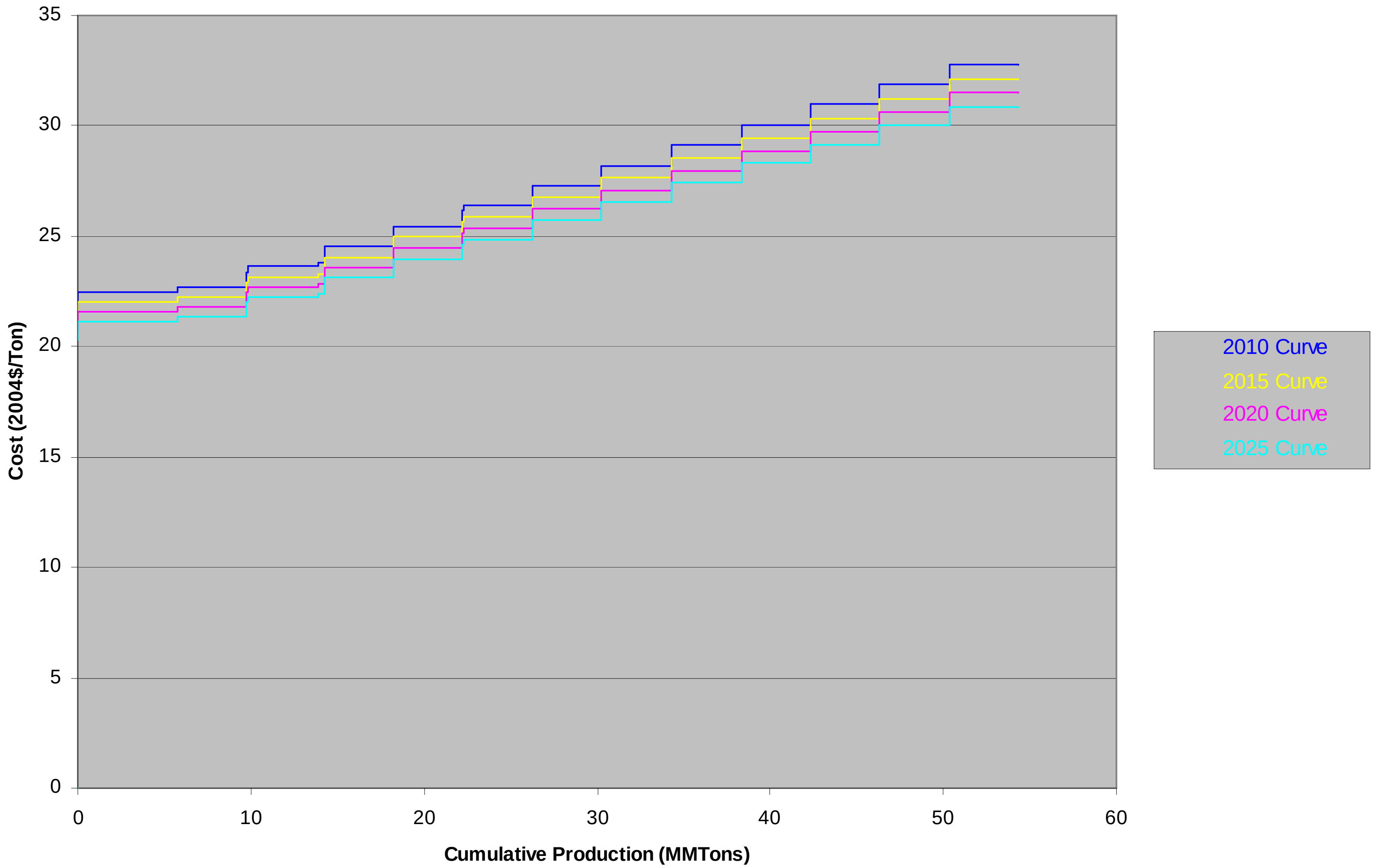


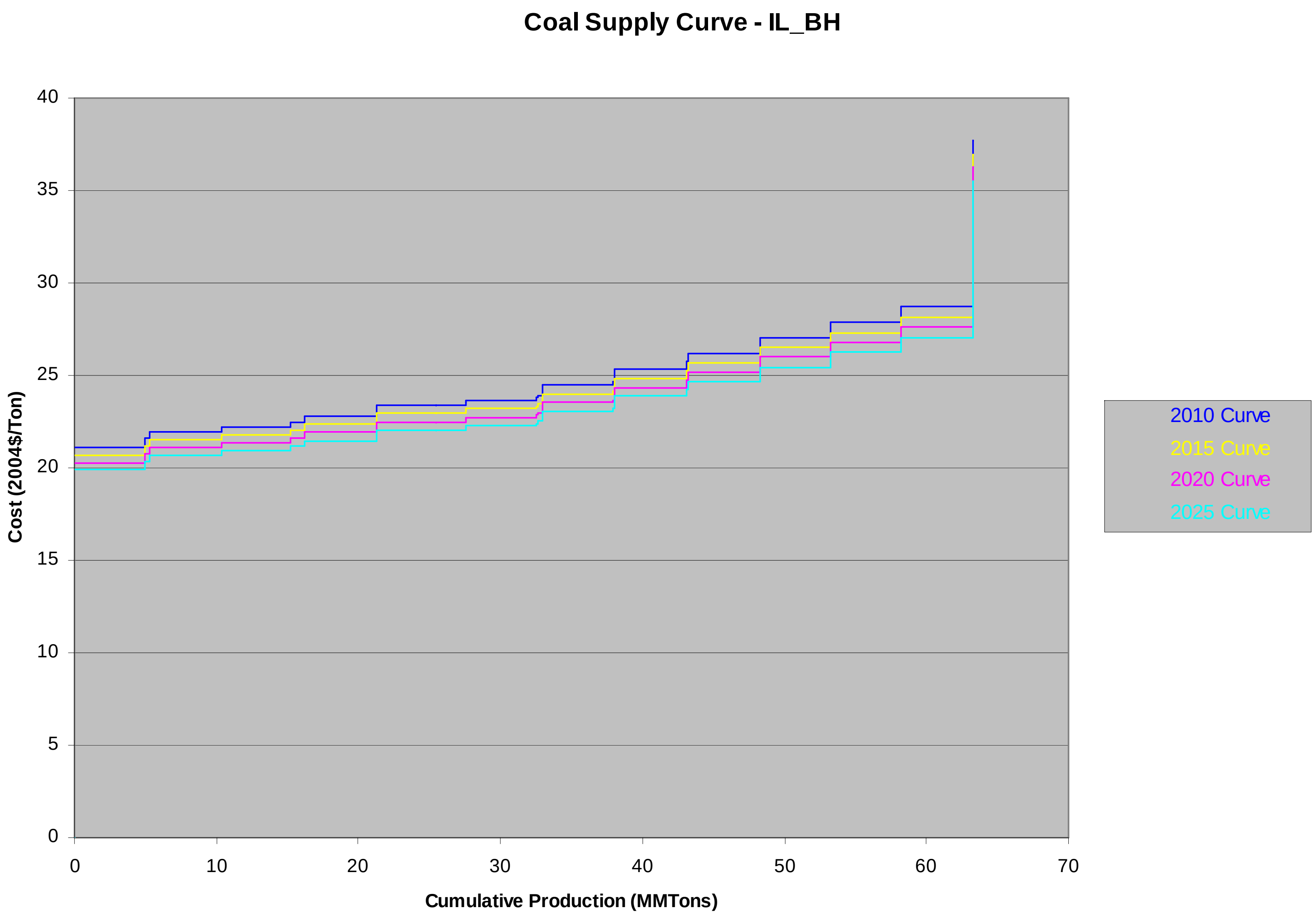
Coal Supply Curve - IL_BB
40
35
30
25
20
15
10
5
0
Cost (2004$/Ton)
0
1
2
3
4
5
6
7
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve


Coal Supply Curve - IL_BD
Cost (2004$/Ton)
0
5
10
15
20
25
30
35
40
0
2
4
6
8
10
12
14
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve


Coal Supply Curve - IL_BE
Cost (2004$/Ton)
0
5
10
15
20
25
30
35
40
Cumulative Production (MMTons)
0
5
10
15
20
25
30
35
2010 Curve
2015 Curve
2020 Curve
2025 Curve

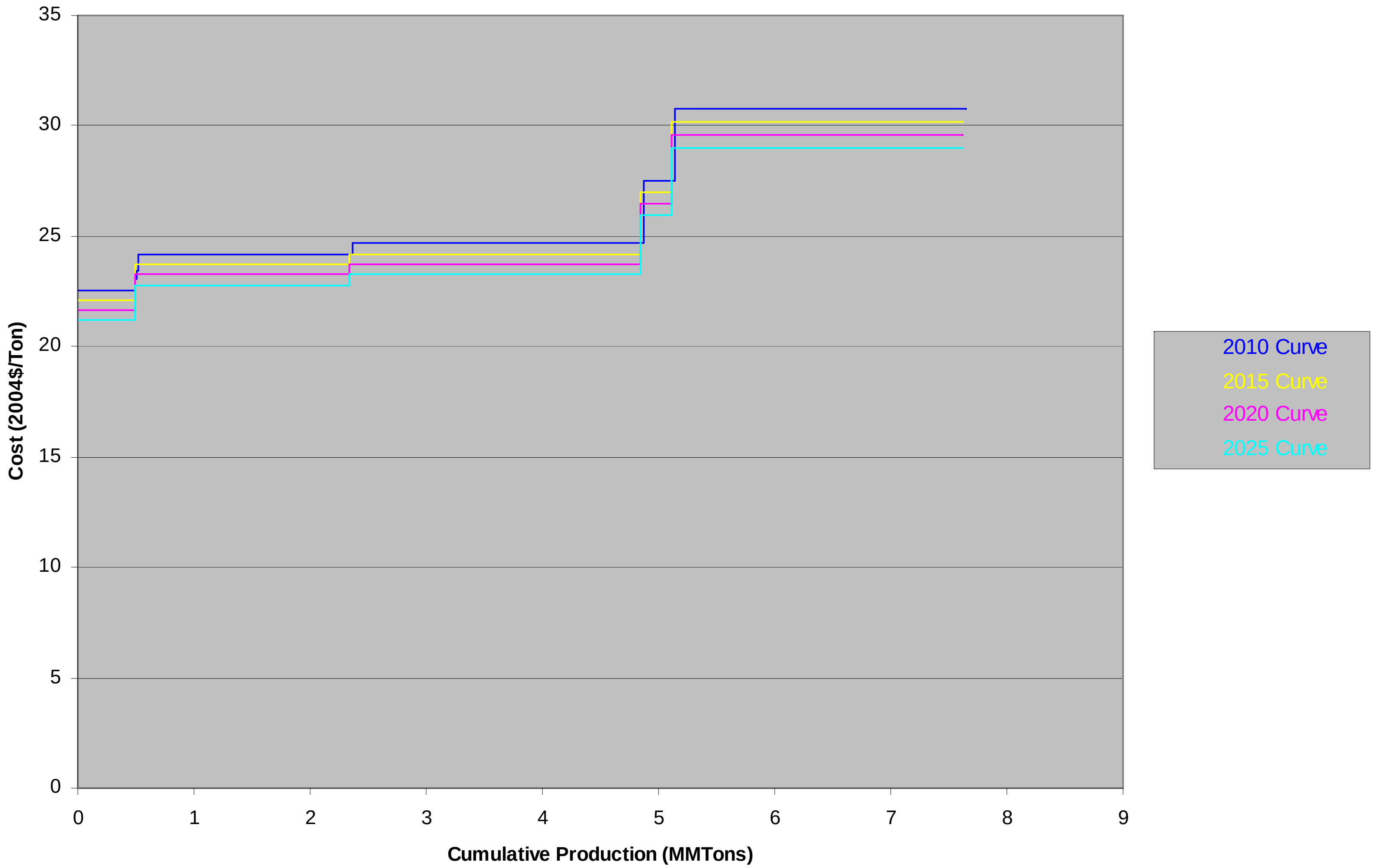
Coal Supply Curve - IL_BG



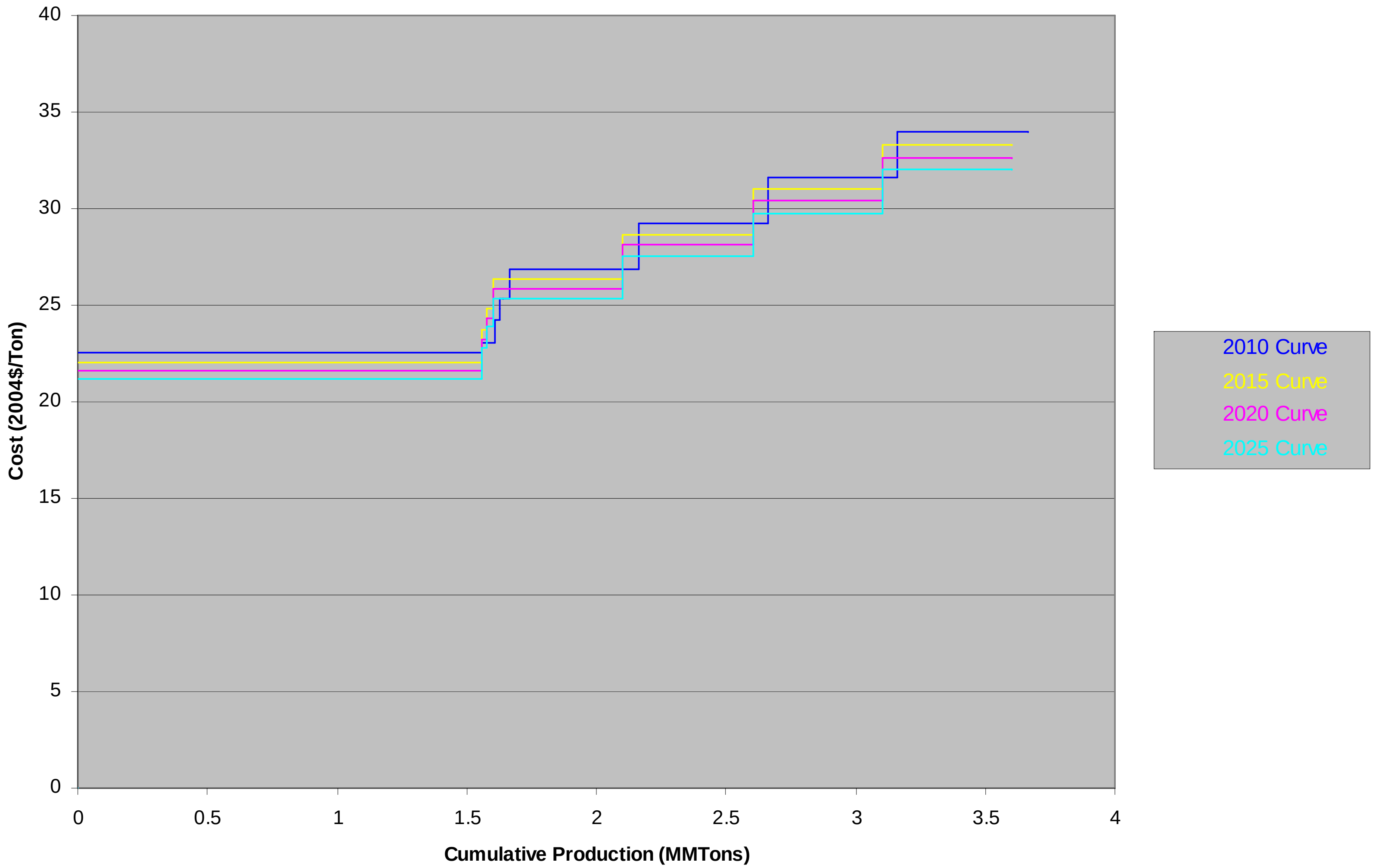


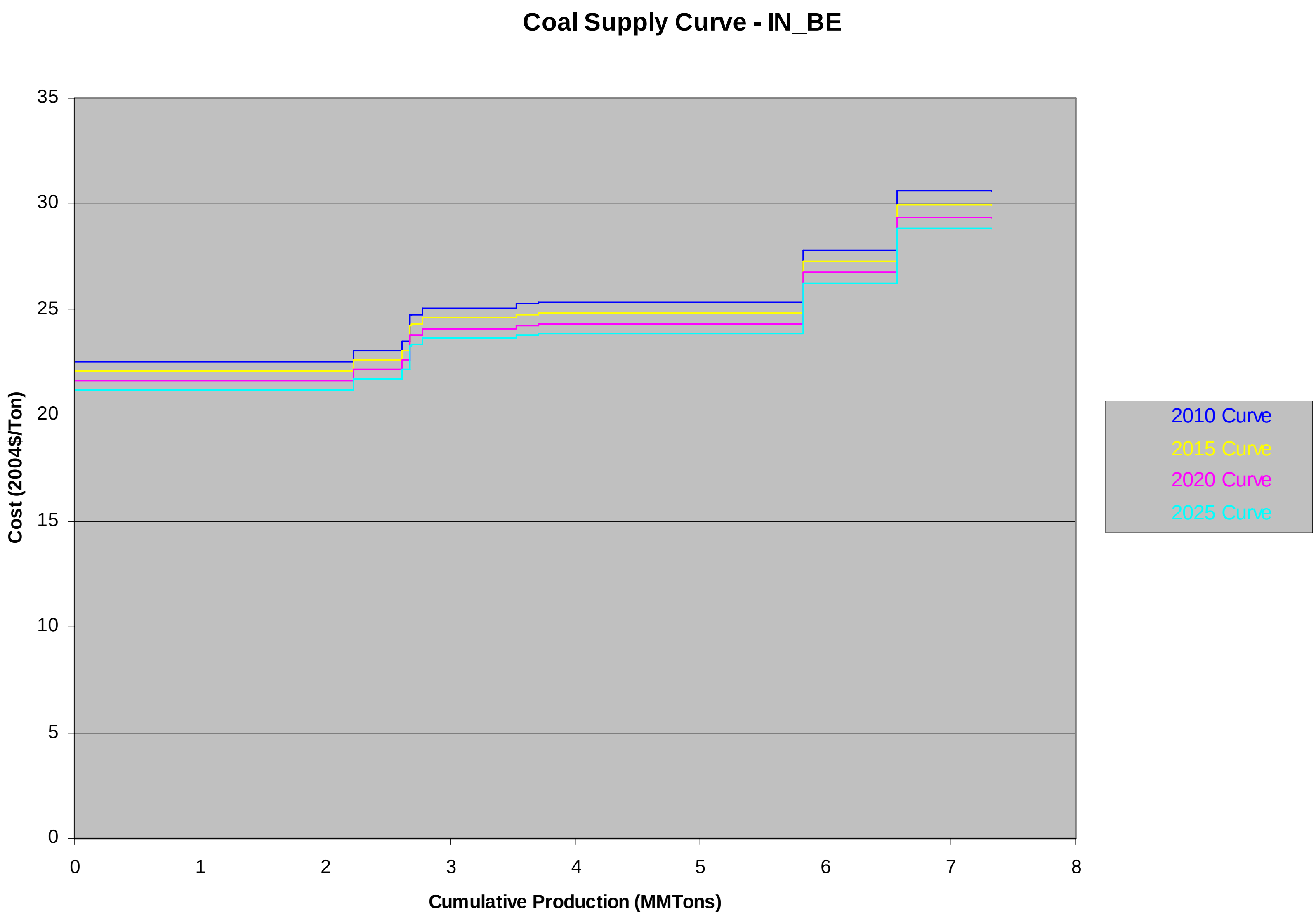
Coal Supply Curve - IL_BH
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
5
10
15
20
25
30
35
40
0
10
20
30
40
50
60
70
2010 Curve
2015 Curve
2020 Curve
2025 Curve

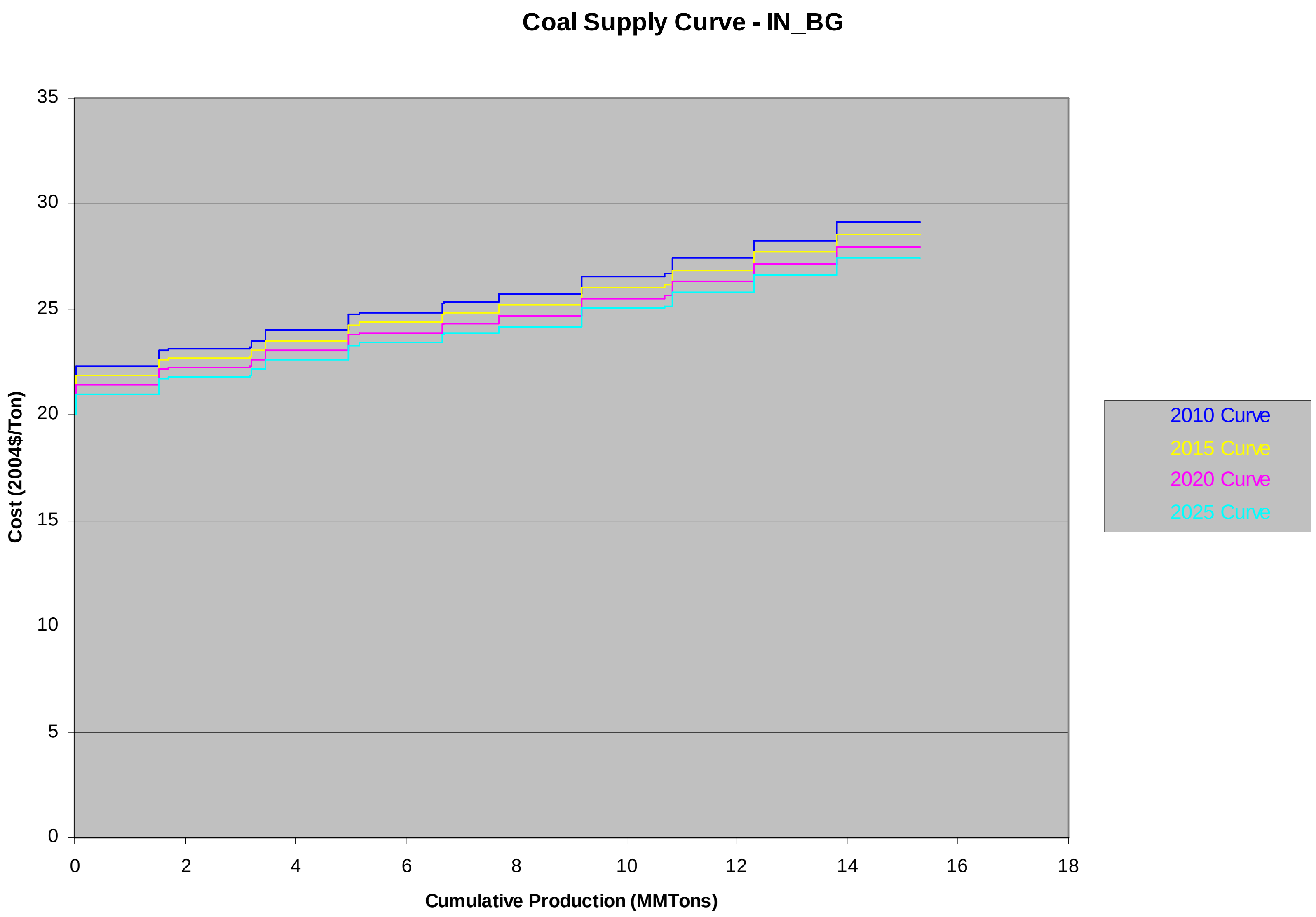
Coal Supply Curve - IN_BB



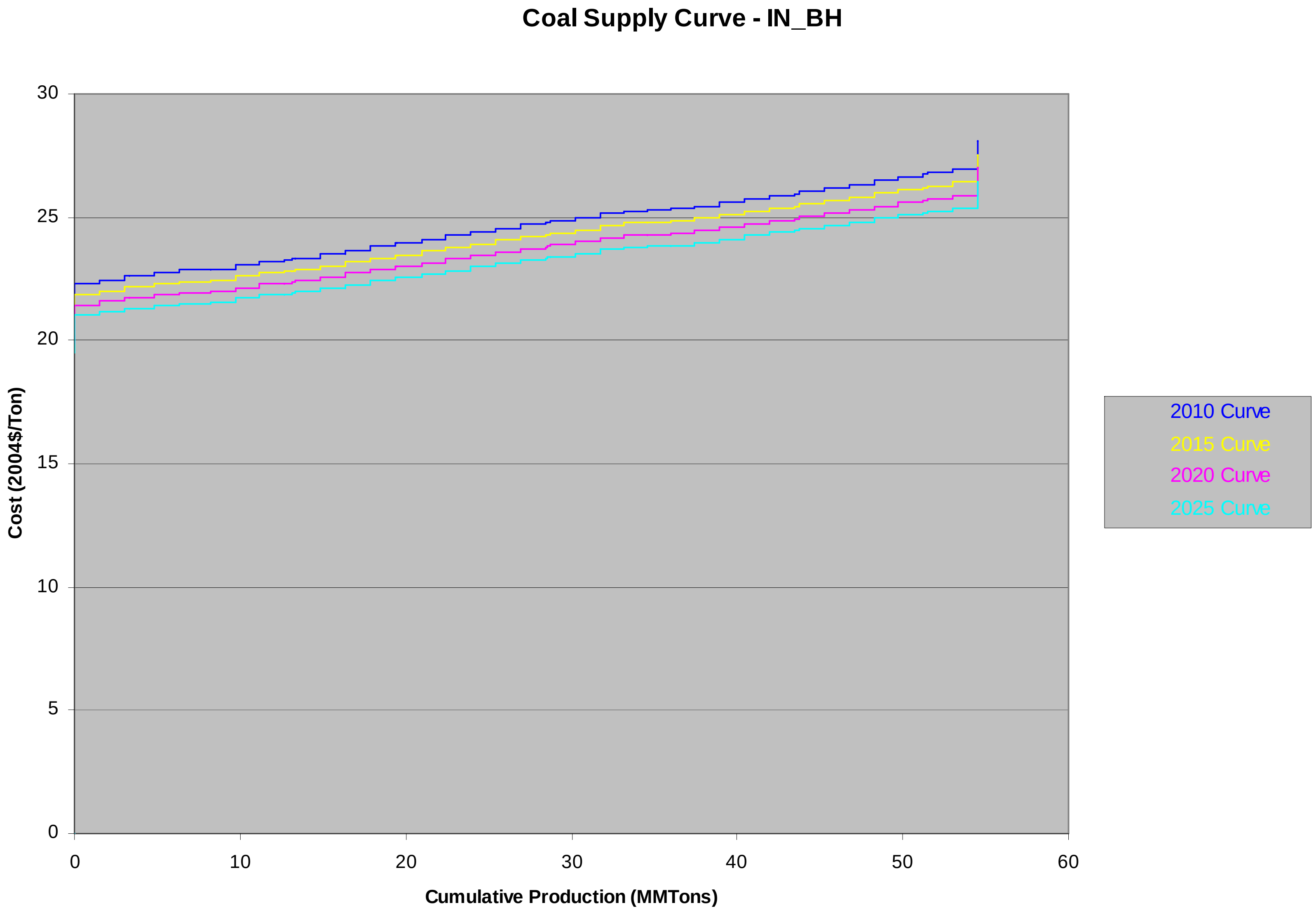
Coal Supply Curve - IN_BD

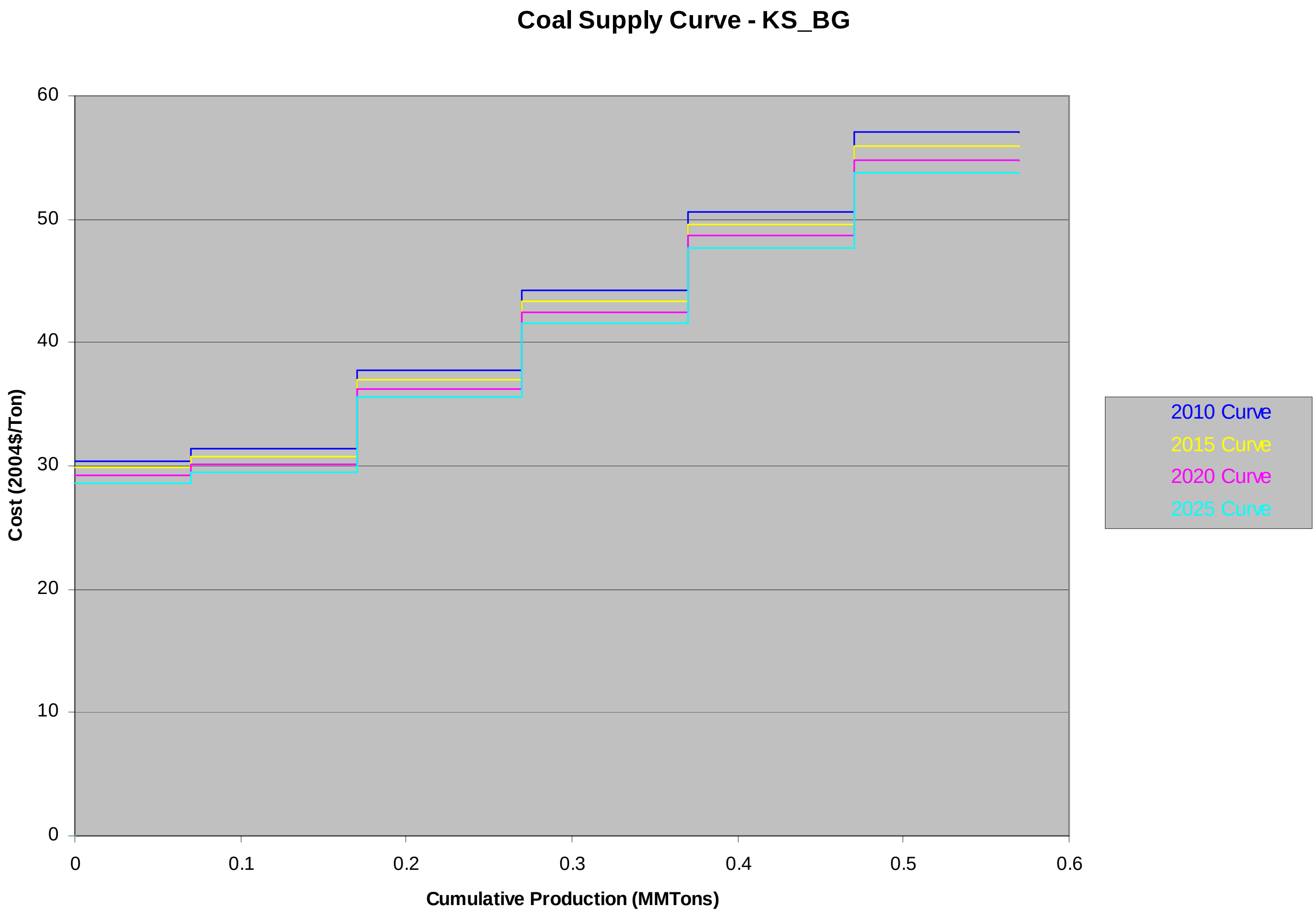



Coal Supply Curve - IN_BE
35
30
25
20
15
10
5
0
Cost (2004$/Ton)
0
1
2
3
4
5
6
7
8
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



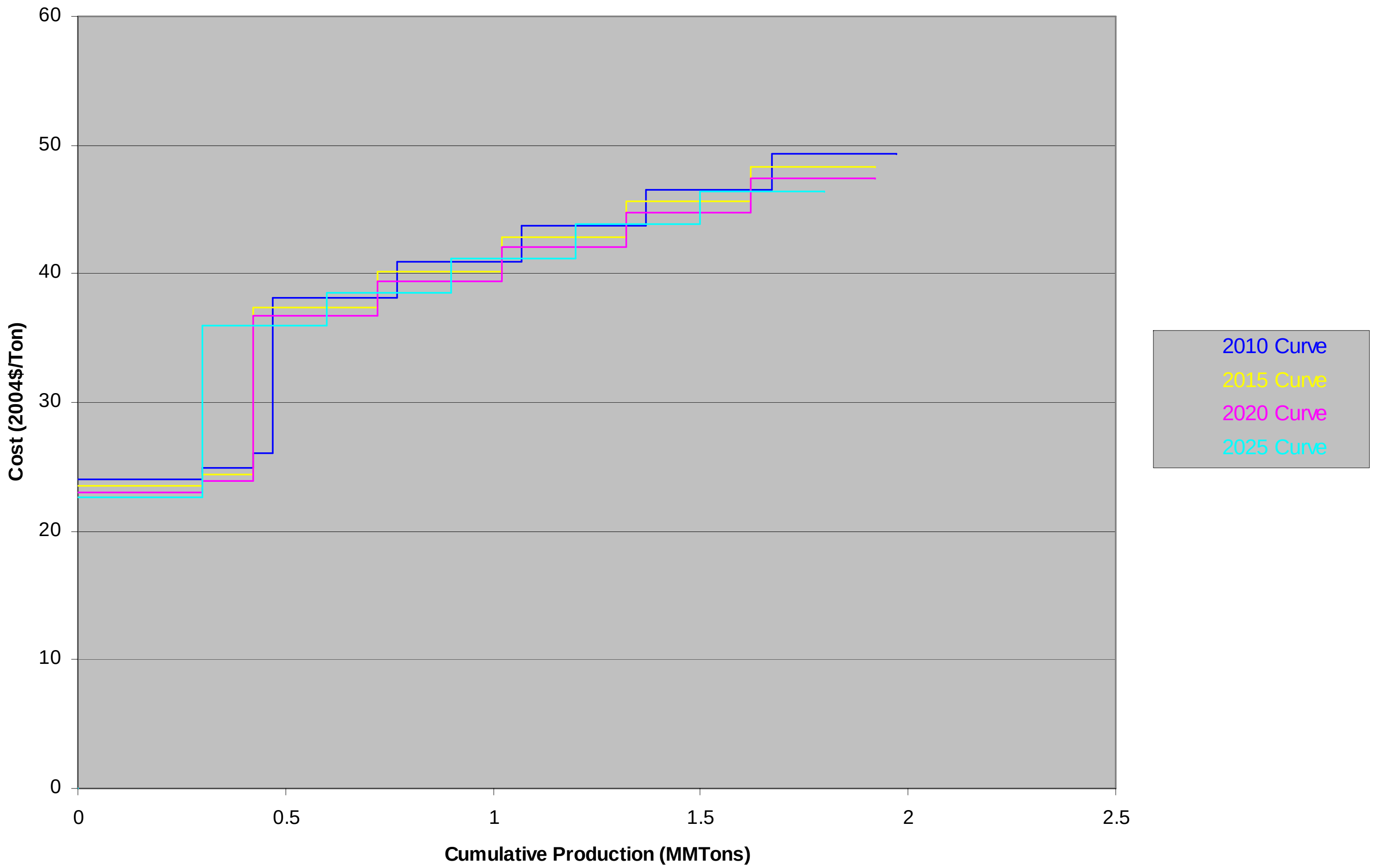
Coal Supply Curve - IN_BG
Cost (2004$/Ton)
35
30
25
20
15
10
5
0
0
2
4
6
8
10
12
14
16
18
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve


Coal Supply Curve - IN_BH
Cost (2004$/Ton)
30
25
20
15
10
5
0
0
10
20
30
40
50
60
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

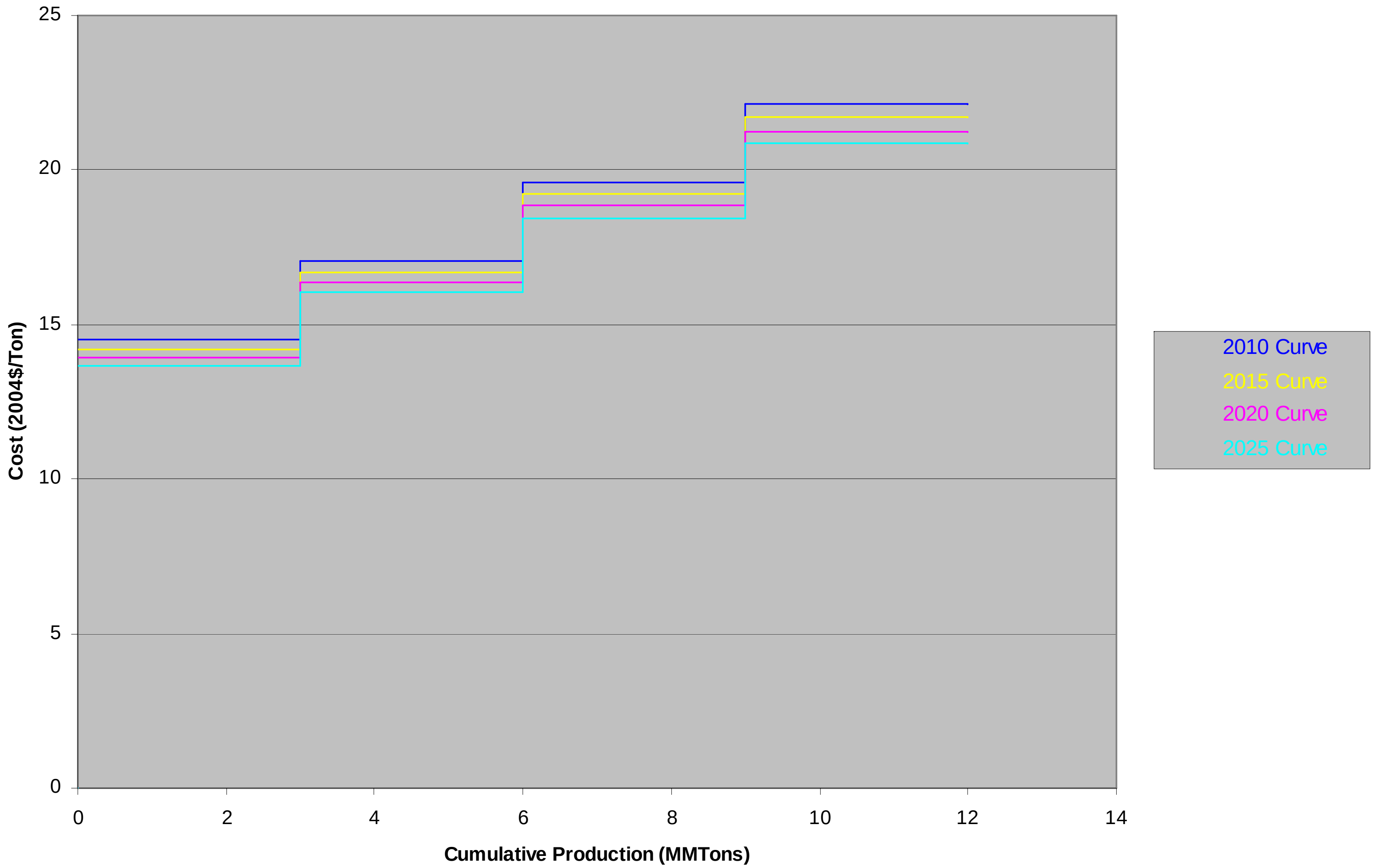


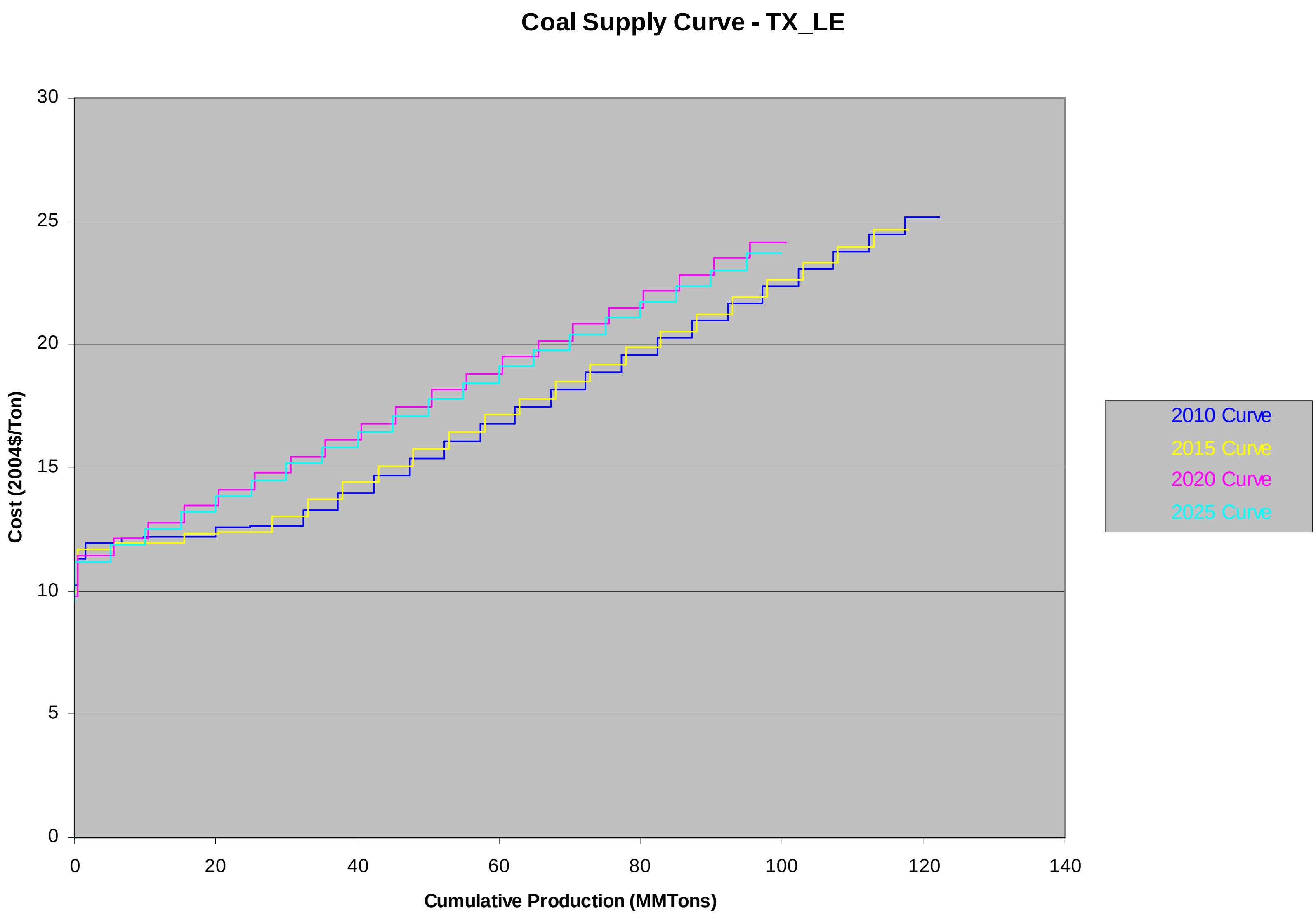
Coal Supply Curve - KS_BG
Cost (2004$/Ton)
60
50
40
30
20
10
0
0
0.1
0.2
0.3
0.4
0.5
0.6
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - OK_BE



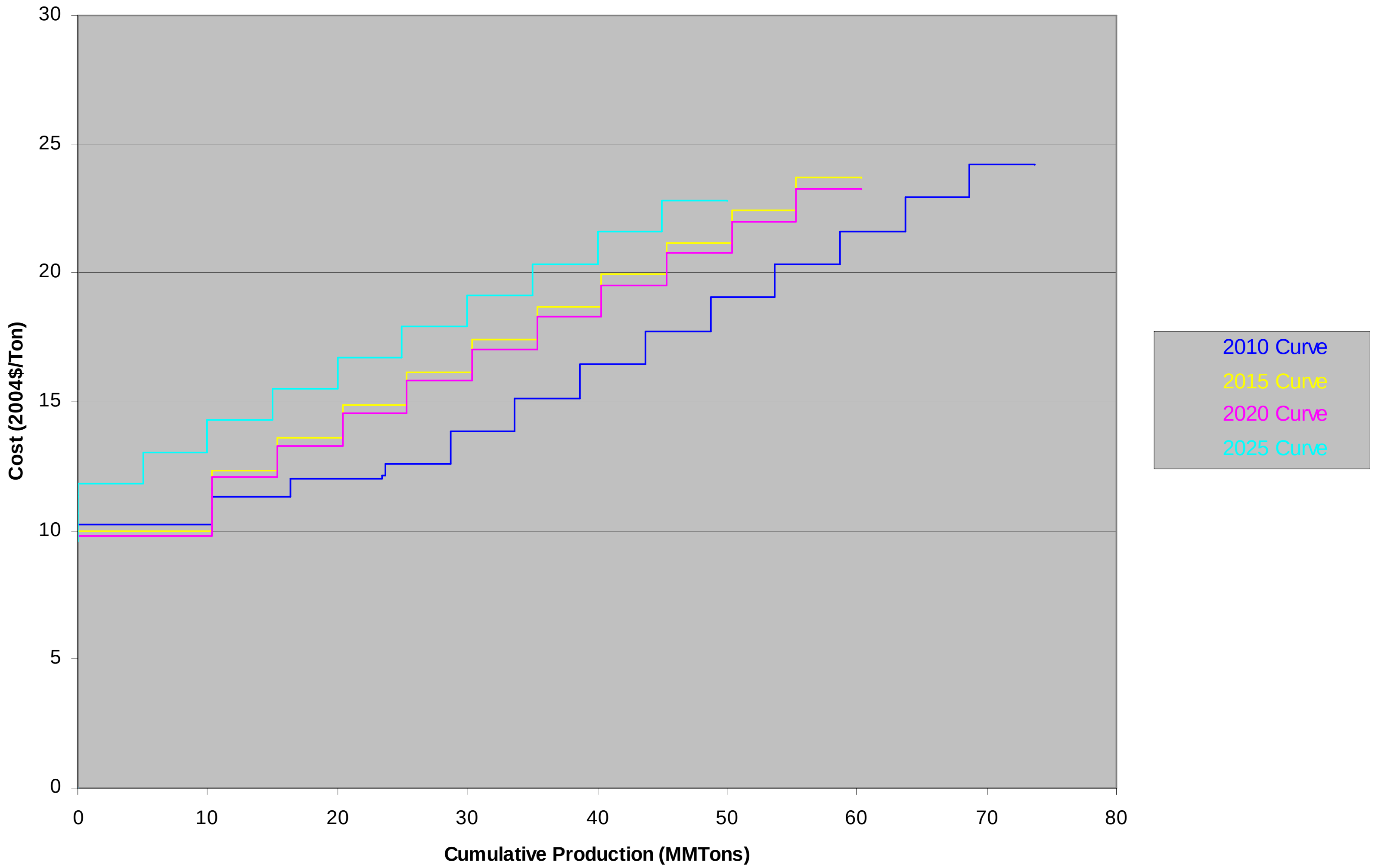
Coal Supply Curve - TX_LD

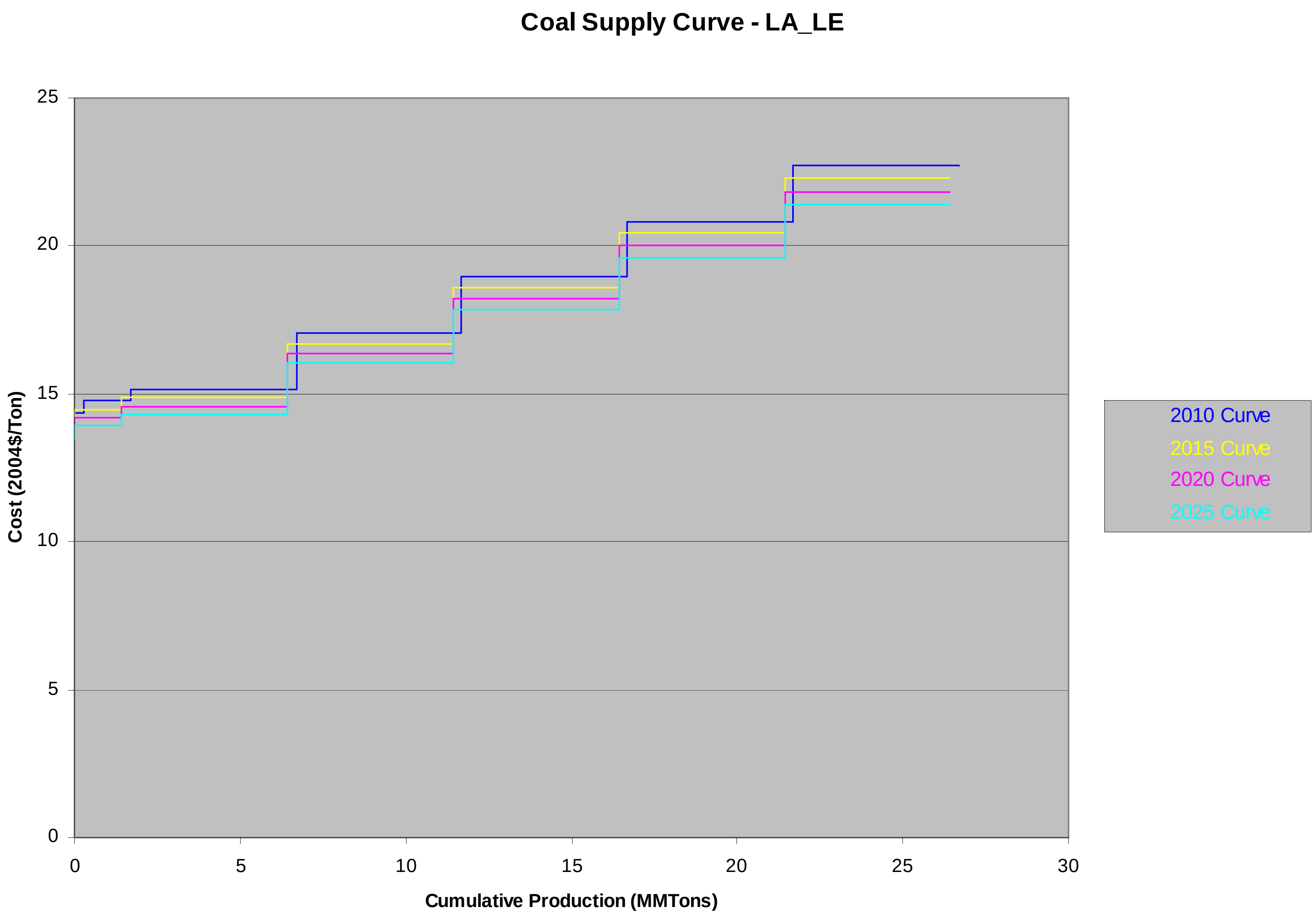


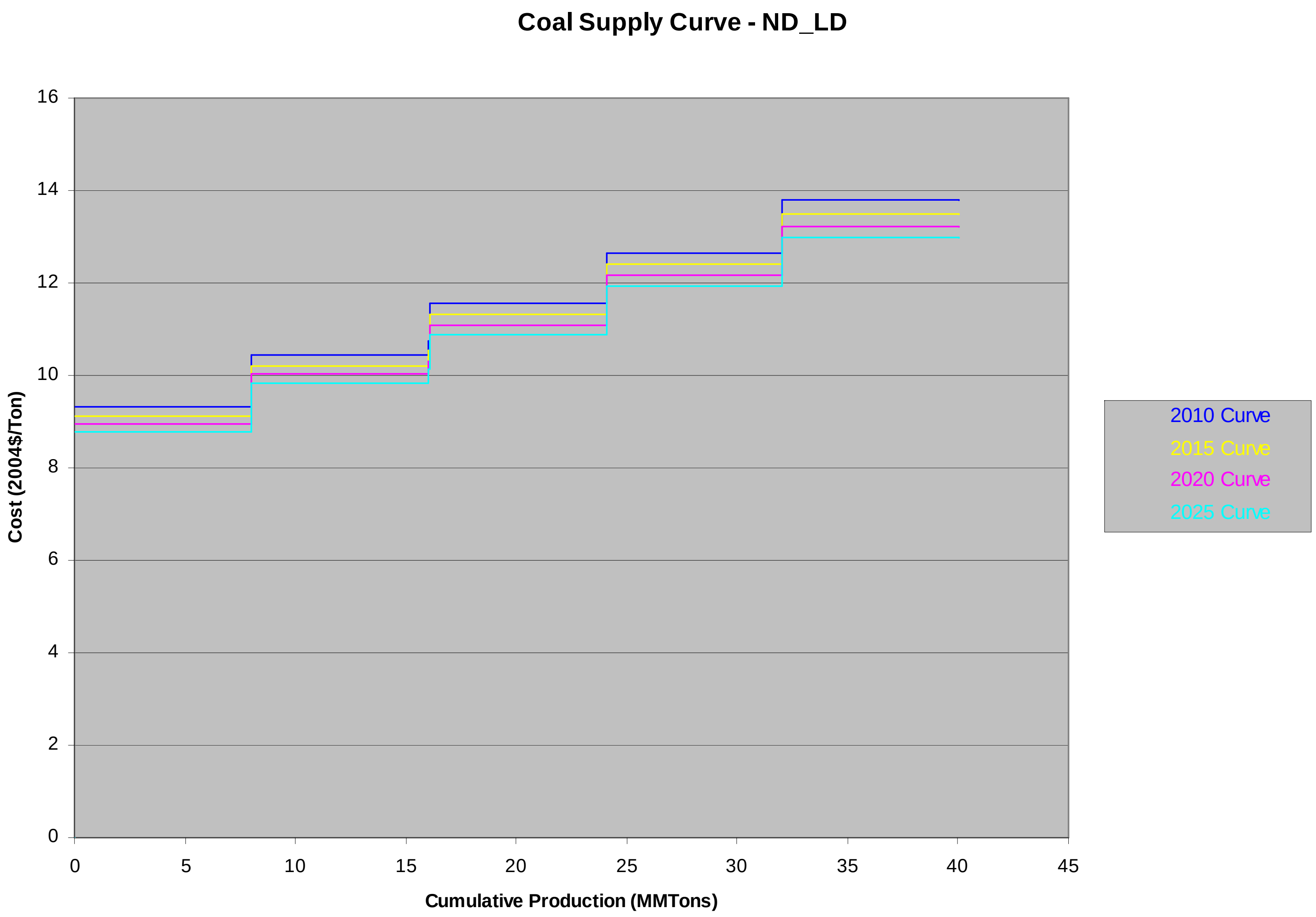


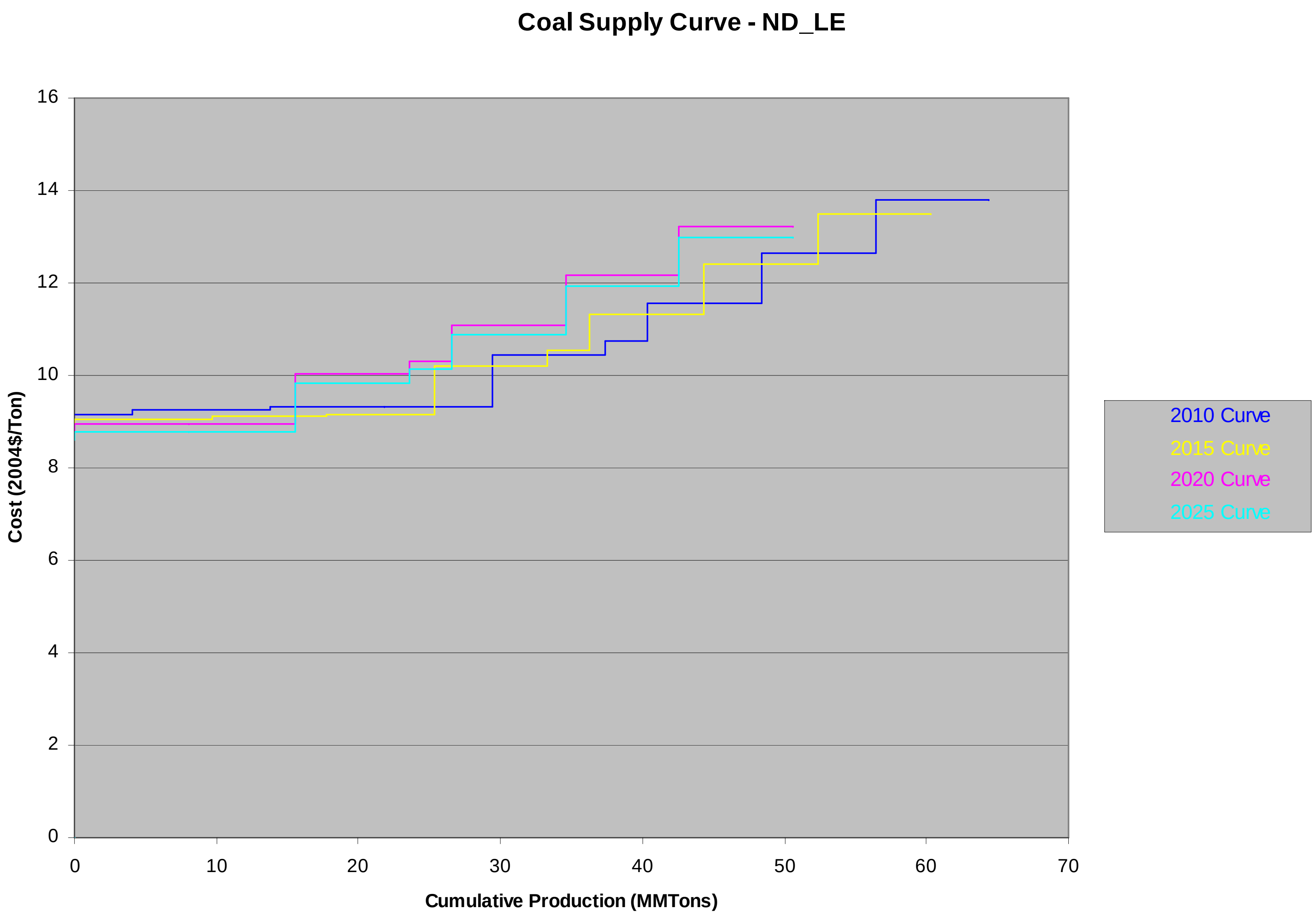
Coal Supply Curve - TX_LE
Cost (2004$/Ton)
30
25
20
15
10
5
0
0
20
40
60
80
100
120
140
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - TX_LG

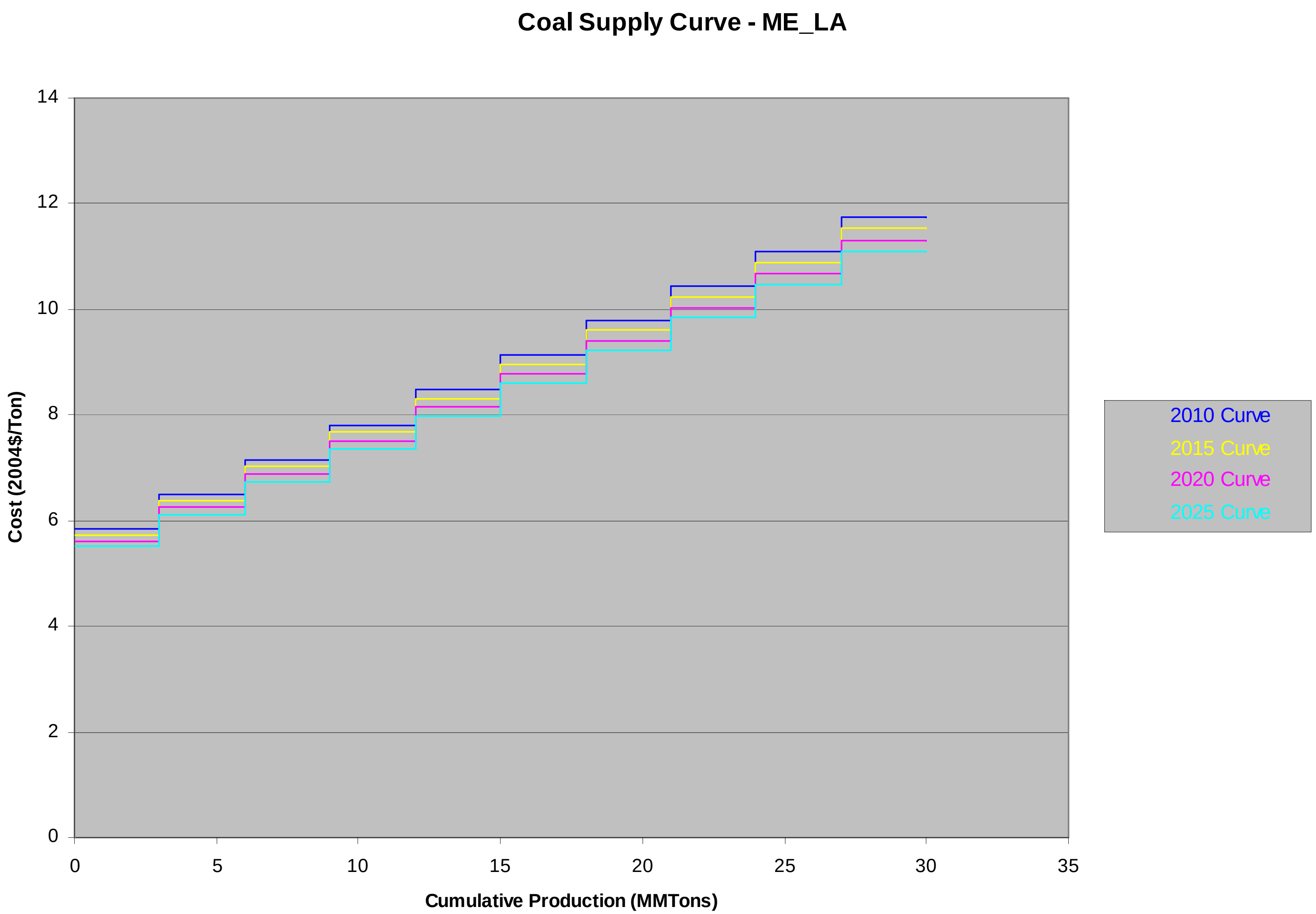



Coal Supply Curve - LA_LE
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
5
10
15
20
25
30
2010 Curve
2015 Curve
2020 Curve
2025 Curve

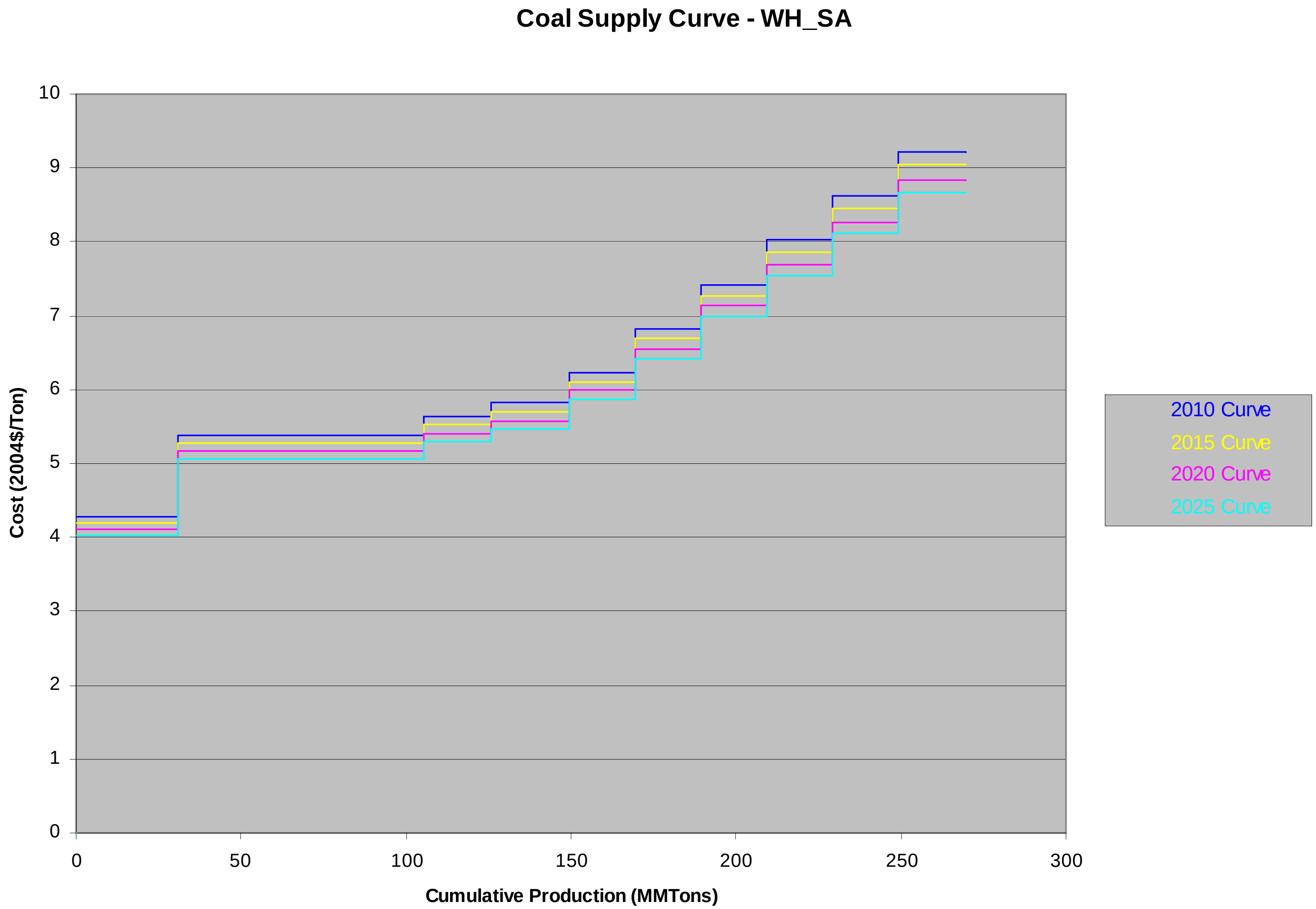

Coal Supply Curve - ND_LD
Cost (2004$/Ton)
16
14
12
10
8
6
4
2
0
0
5
10
15
20
25
30
35
40
45
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



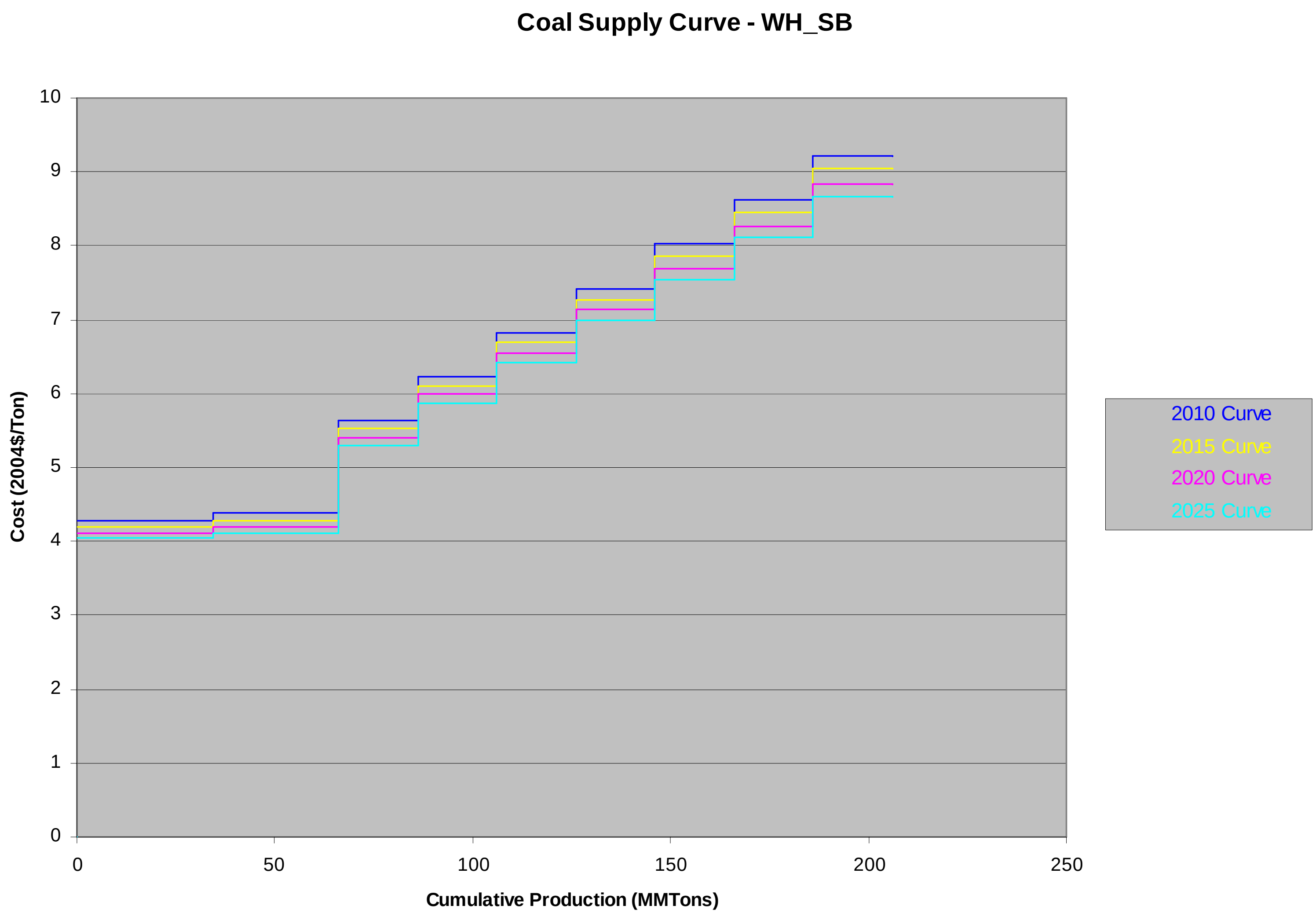
Coal Supply Curve - ND_LE
Cost (2004$/Ton)
0
2
4
6
8
10
12
14
16
0
10
20
30
40
50
60
70
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

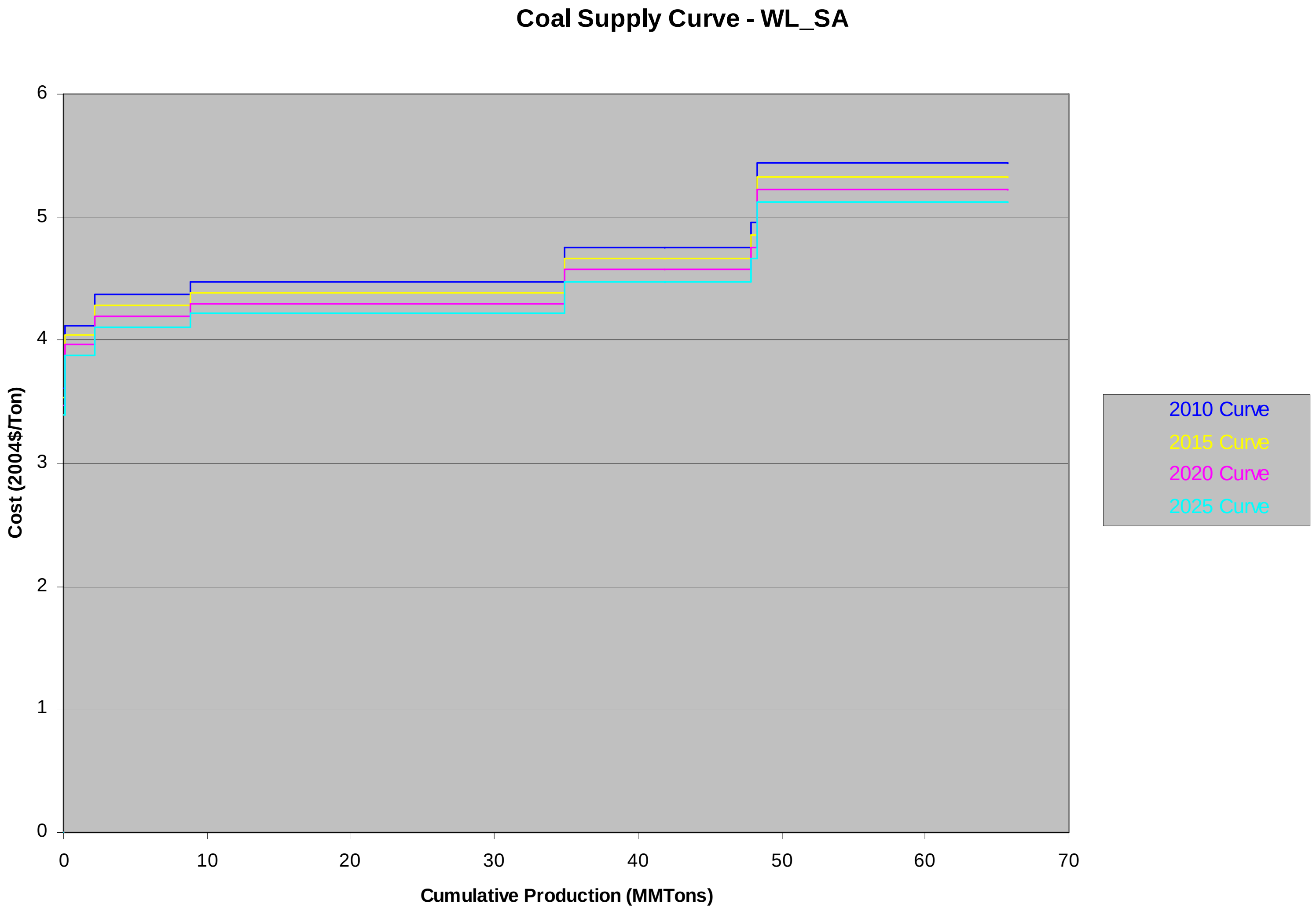


Coal Supply Curve - ME_LA
14
12
10
8
6
4
2
0
0
5
10
15
20
25
30
35
Cost (2004$/Ton)
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

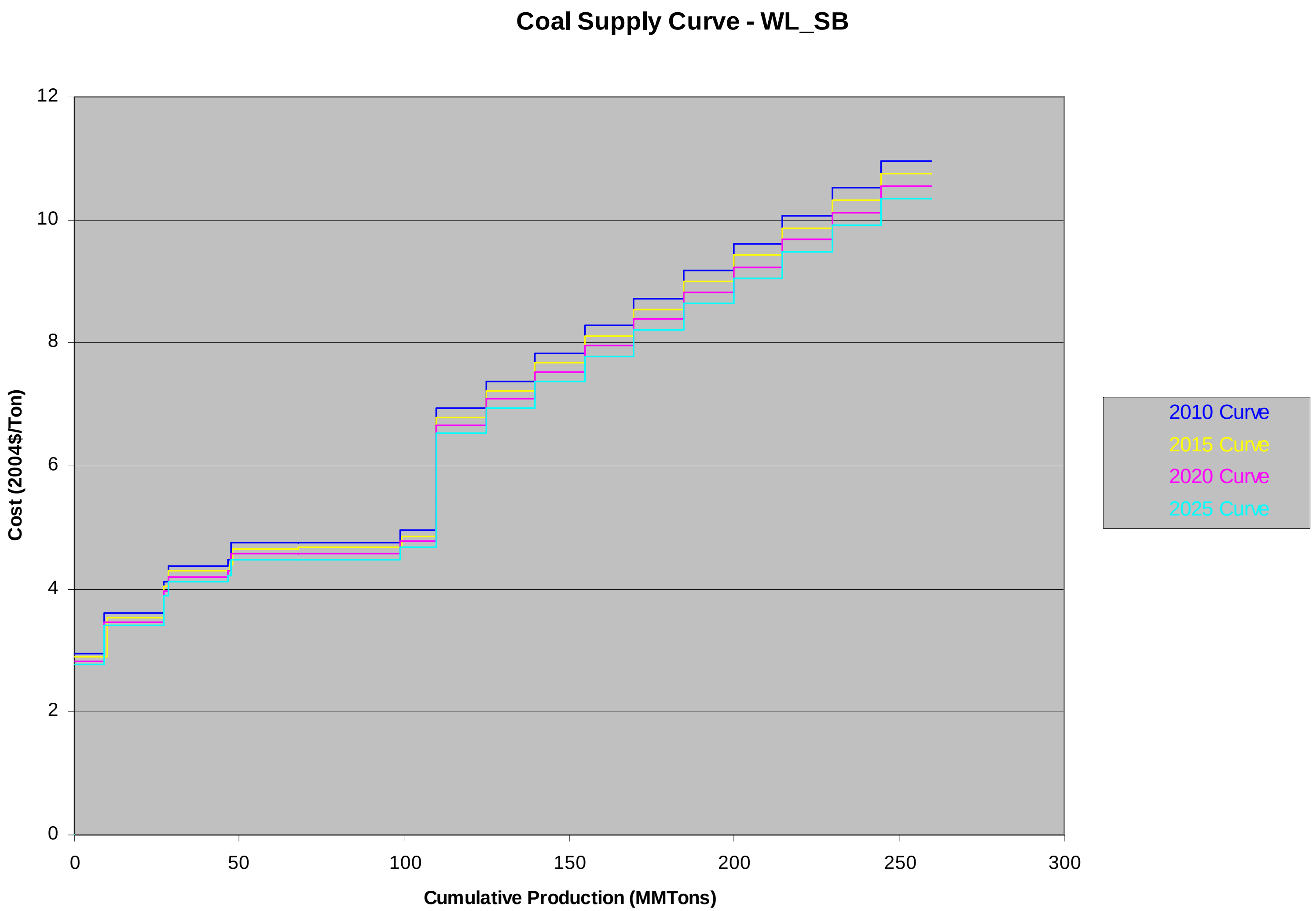


Coal Supply Curve - WH_SA
Cost (2004$/Ton)
0
1
2
3
4
5
6
7
8
9
10
0
50
100
150
200
250
300
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

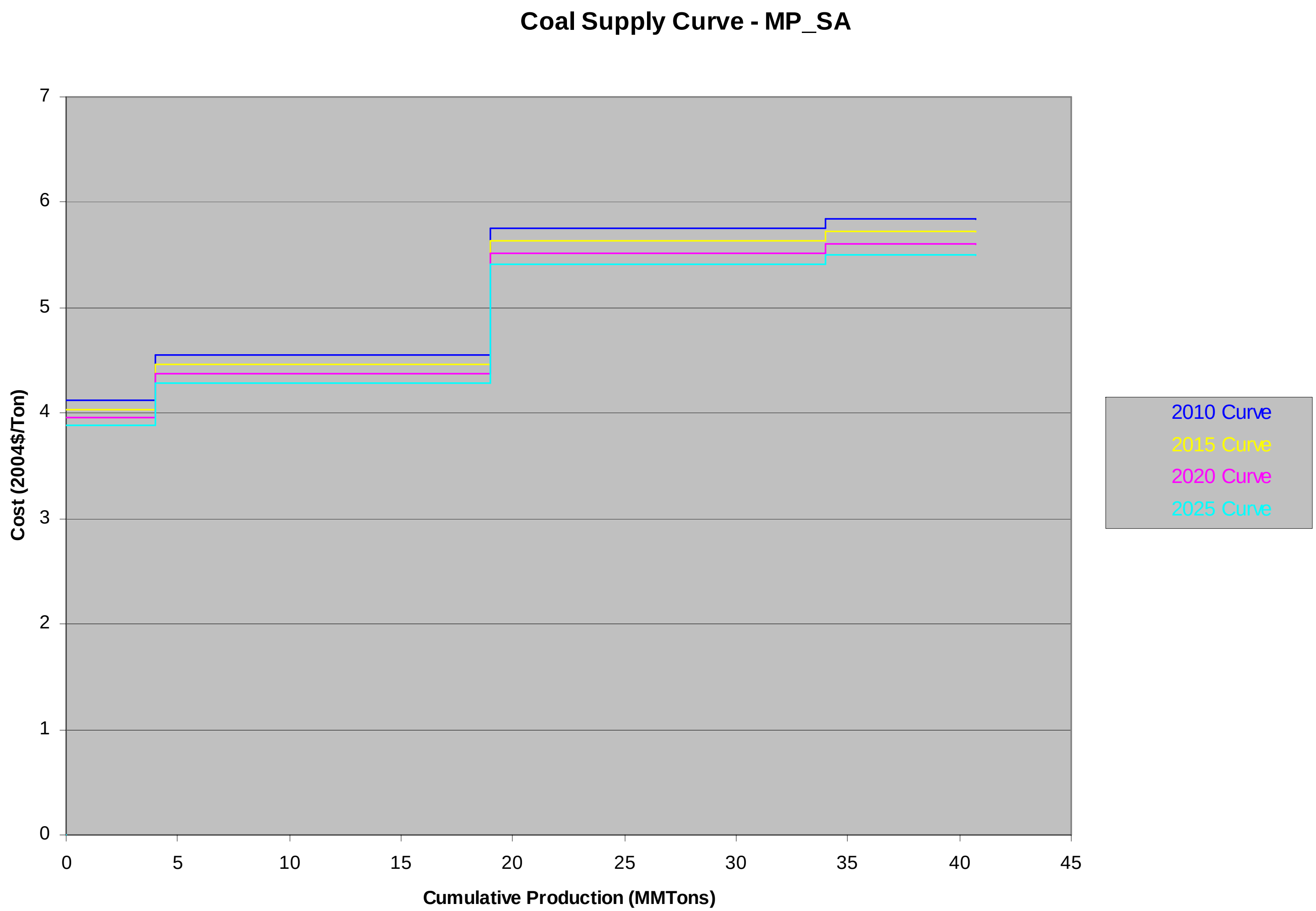

Coal Supply Curve - WH_SB
Cost (2004$/Ton)
10
9
8
7
6
5
4
3
2
1
0
0
50
100
150
200
250
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



Coal Supply Curve - WL_SA
Cost (2004$/Ton)
0
1
2
3
4
5
6
0
10
20
30
40
50
60
70
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

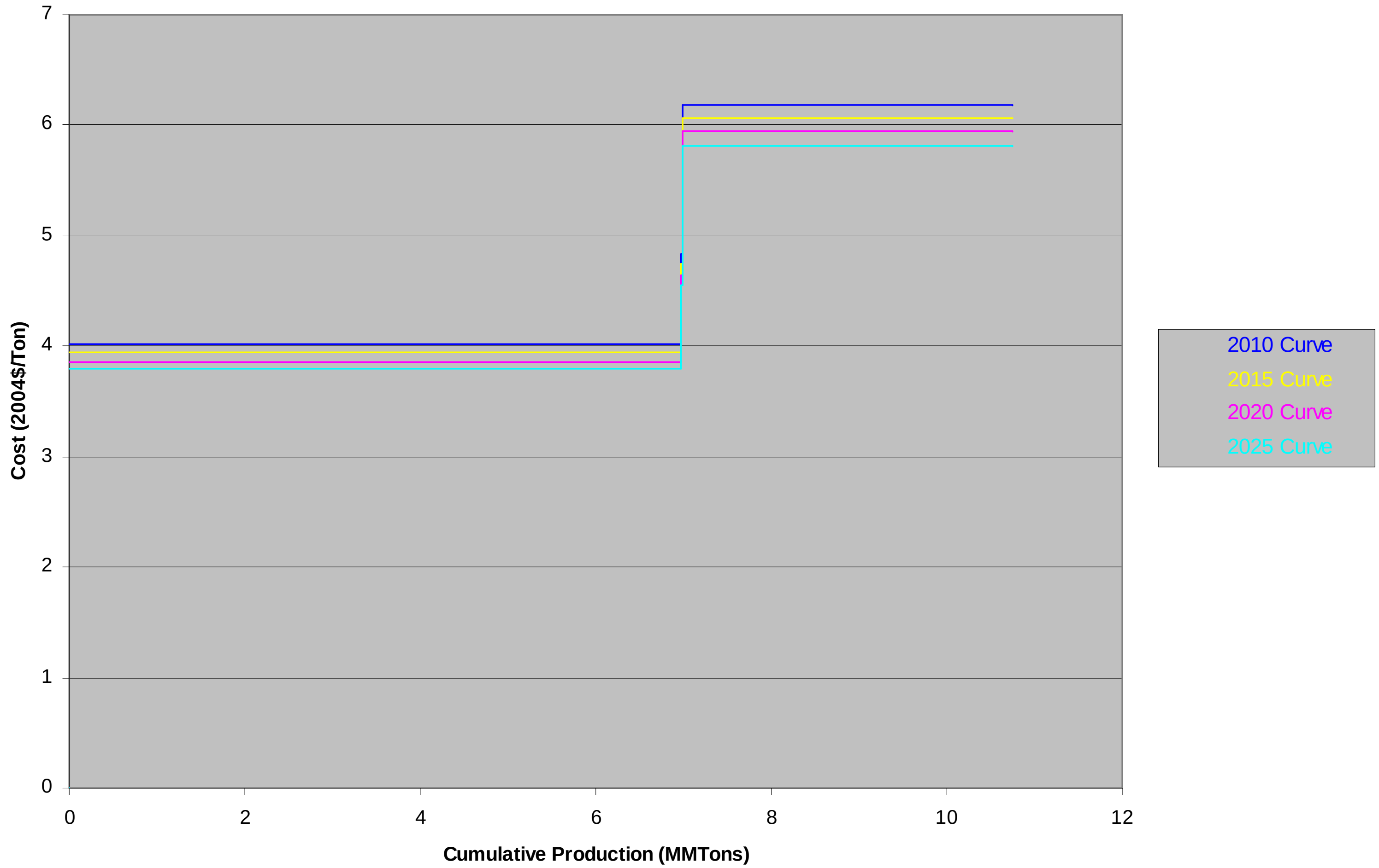


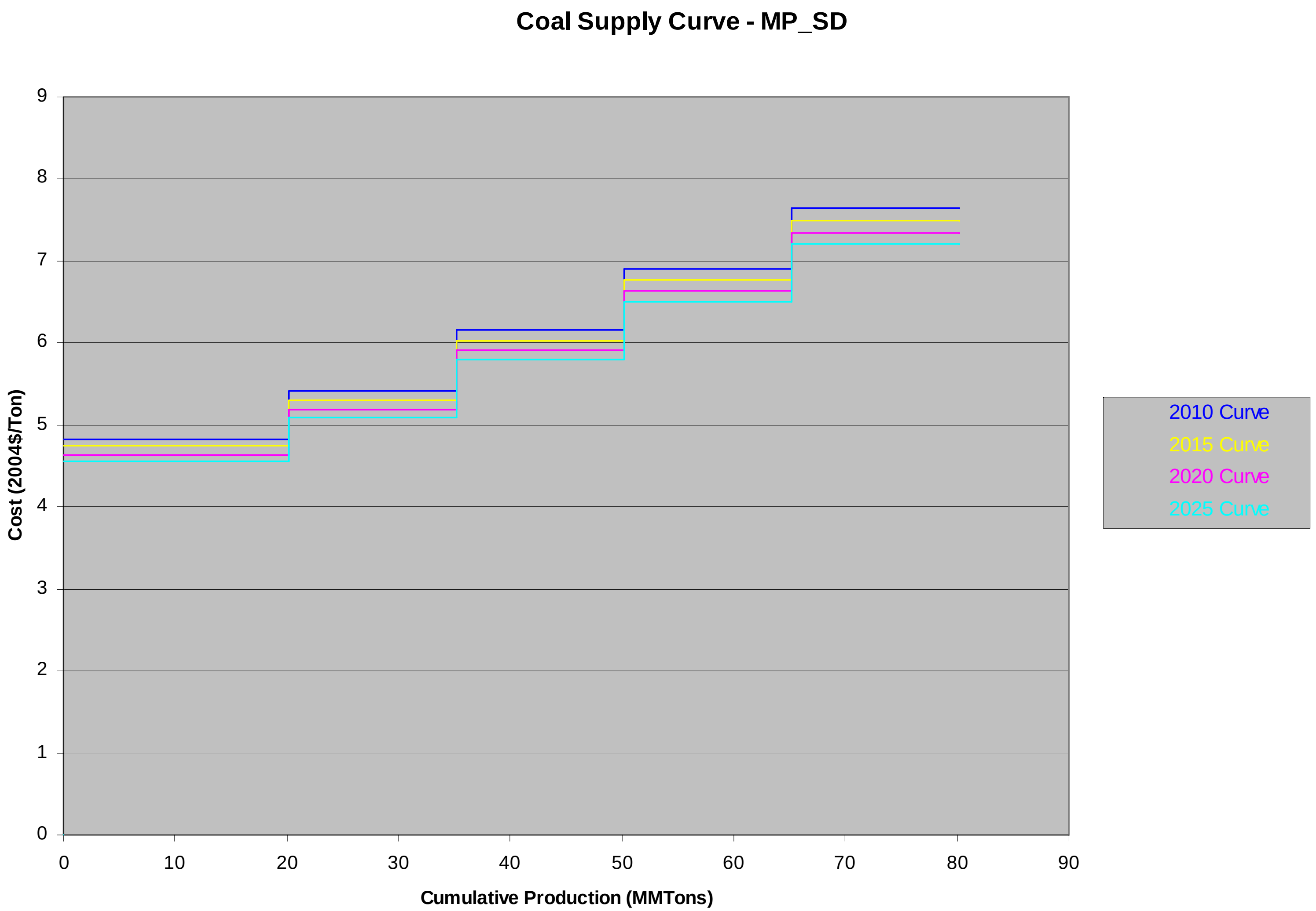
Coal Supply Curve - WL_SB
Cost (2004$/Ton)
0
2
4
6
8
10
12
0
50
100
150
200
250
300
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



Coal Supply Curve - MP_SA
Cost (2004$/Ton)
0
1
2
3
4
5
6
7
0
5
10
15
20
25
30
35
40
45
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

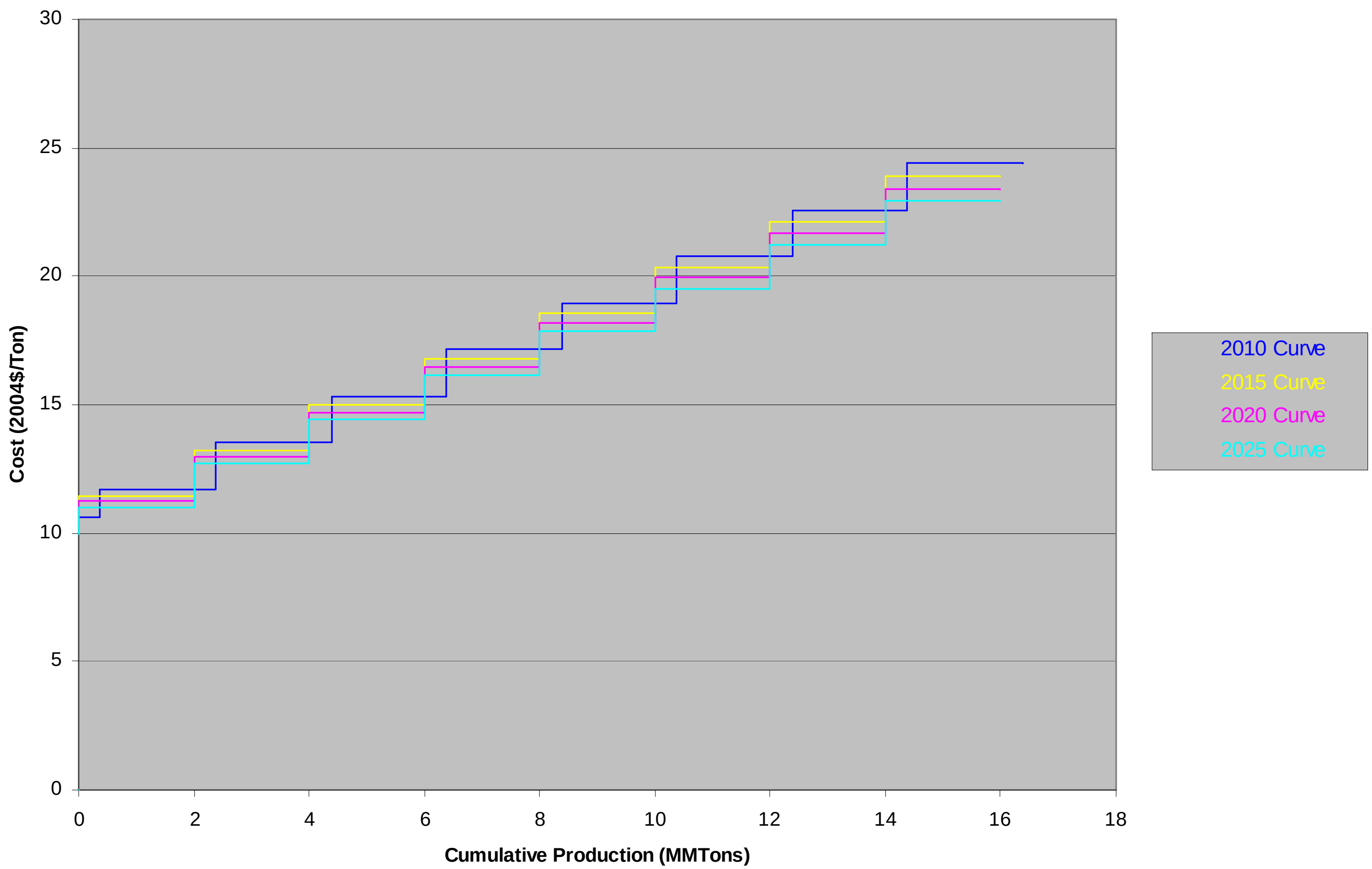
Coal Supply Curve - MP_SB

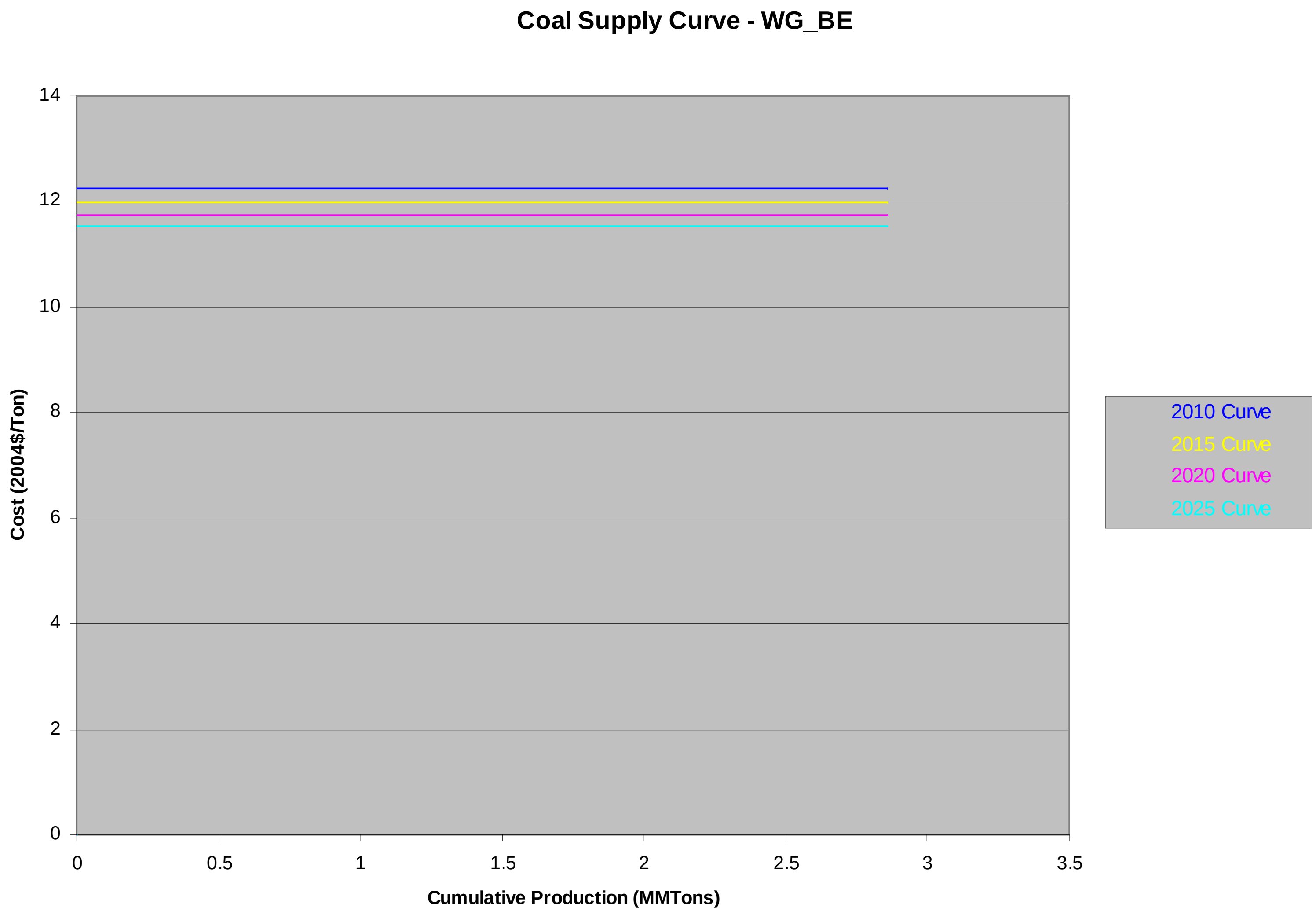




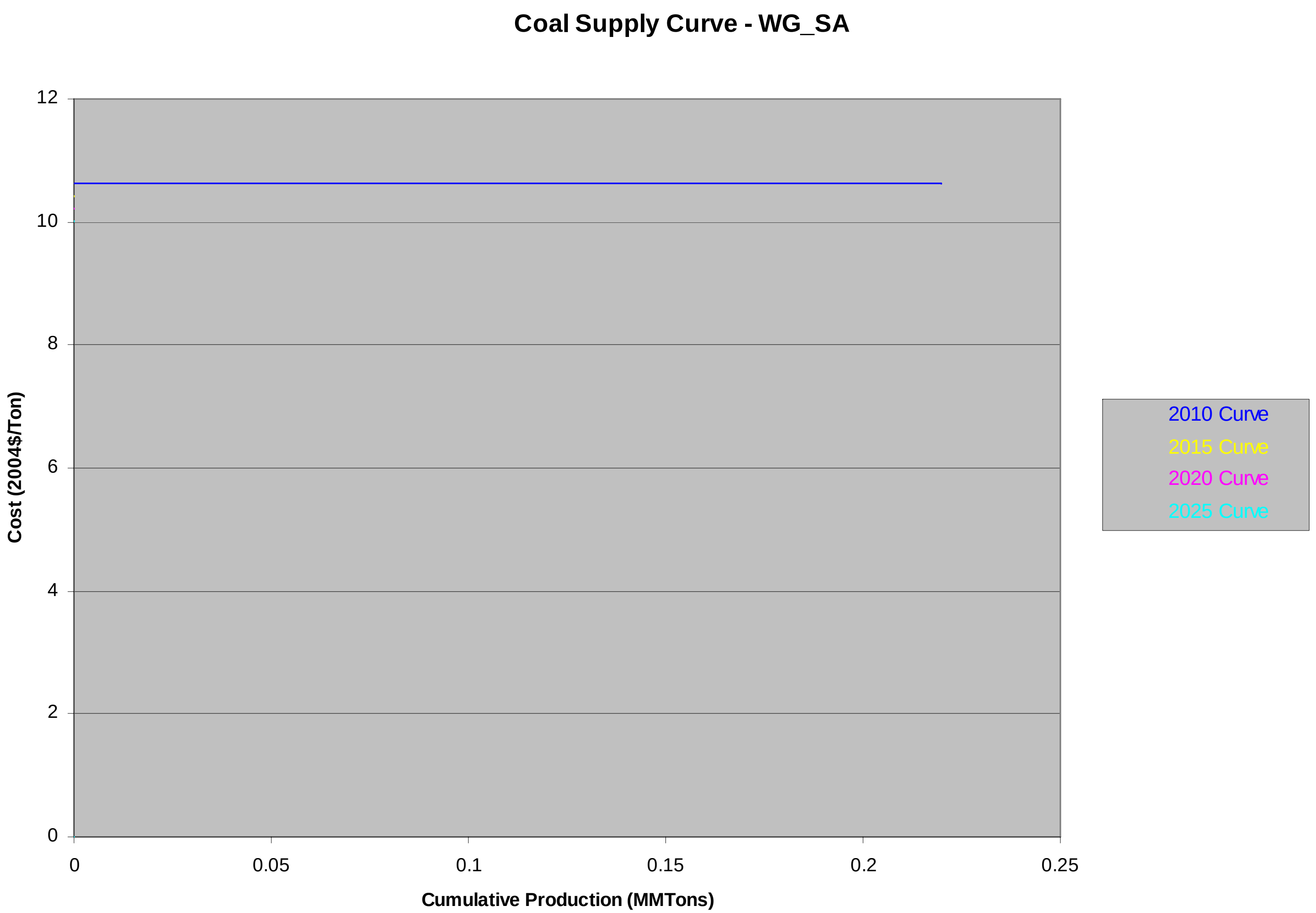
Coal Supply Curve - MP_SD
Cost (2004$/Ton)
9
8
7
6
5
4
3
2
1
0
0
10
20
30
40
50
60
70
80
90
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

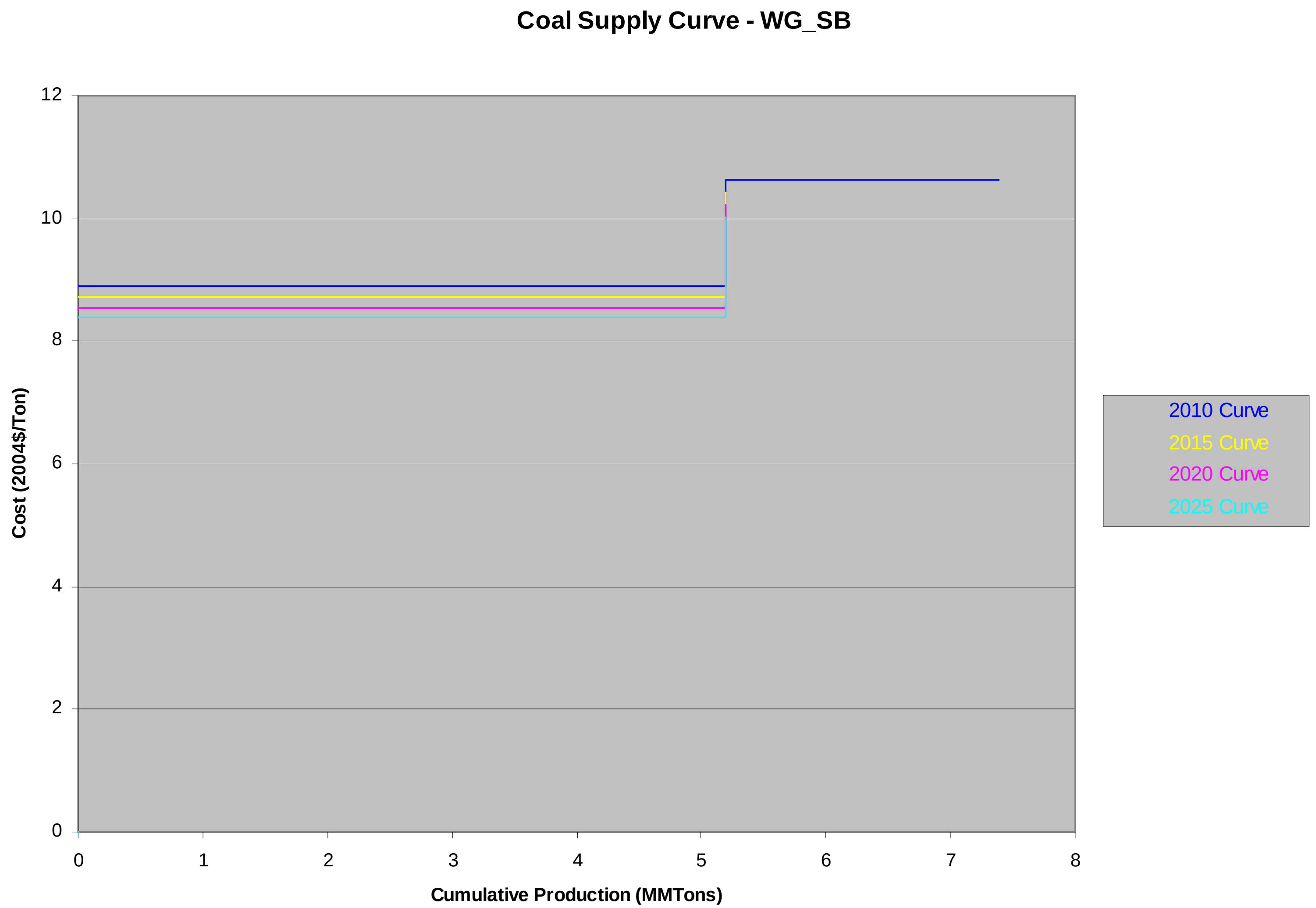
Coal Supply Curve - WG_BB





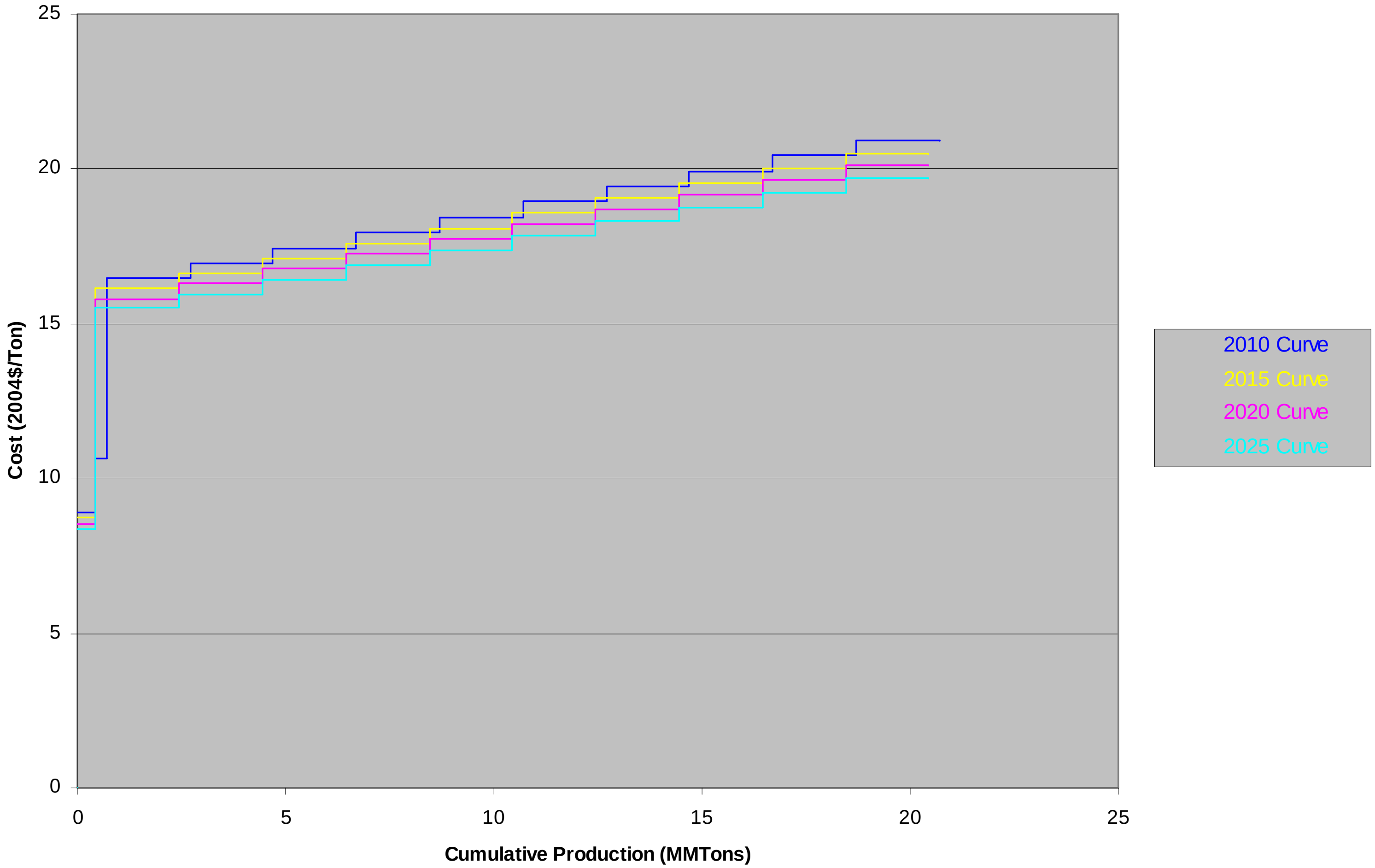
Coal Supply Curve - WG_BE
Cost (2004$/Ton)
14
12
10
8
6
4
2
0
0
0.5
1
1.5
2
2.5
3
3.5
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

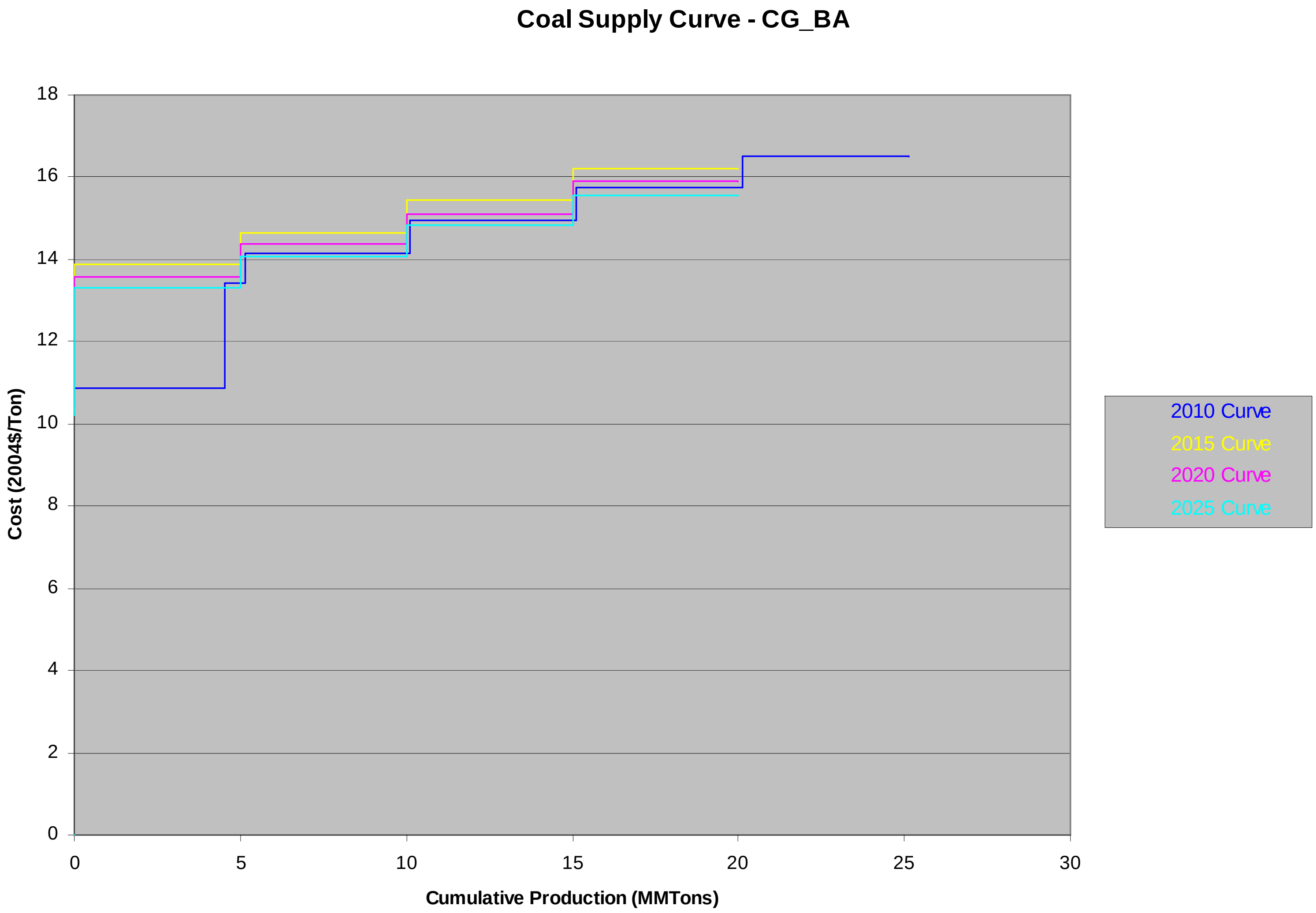

Coal Supply Curve - WG_SA
12
10
8
6
4
2
0
0
0.05
0.1
0.15
0.2
0.25
Cost (2004$/Ton)
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



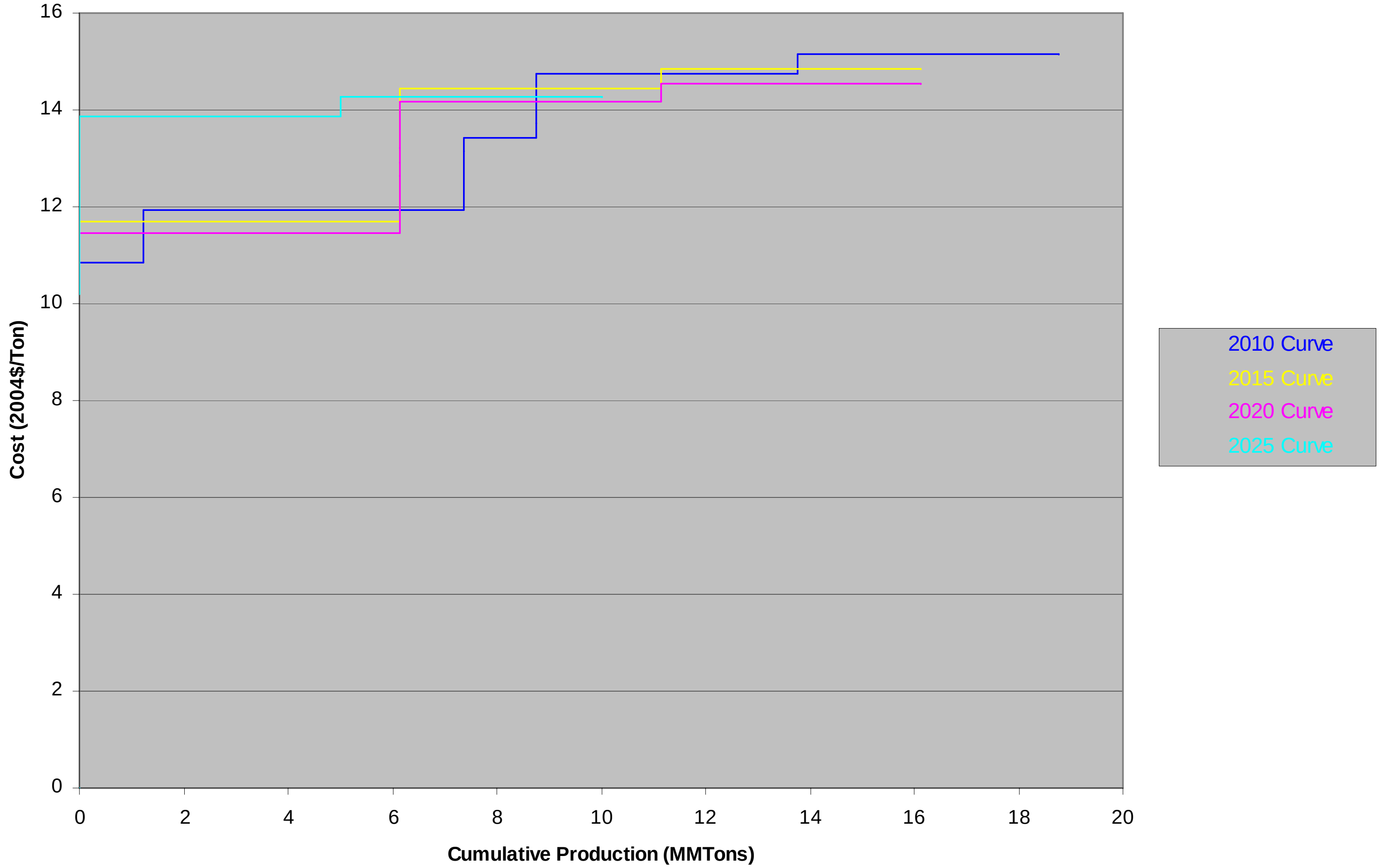
Coal Supply Curve - WG_SB
Cost (2004$/Ton)
12
10
8
6
4
2
0
0
1
2
3
4
5
6
7
8
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

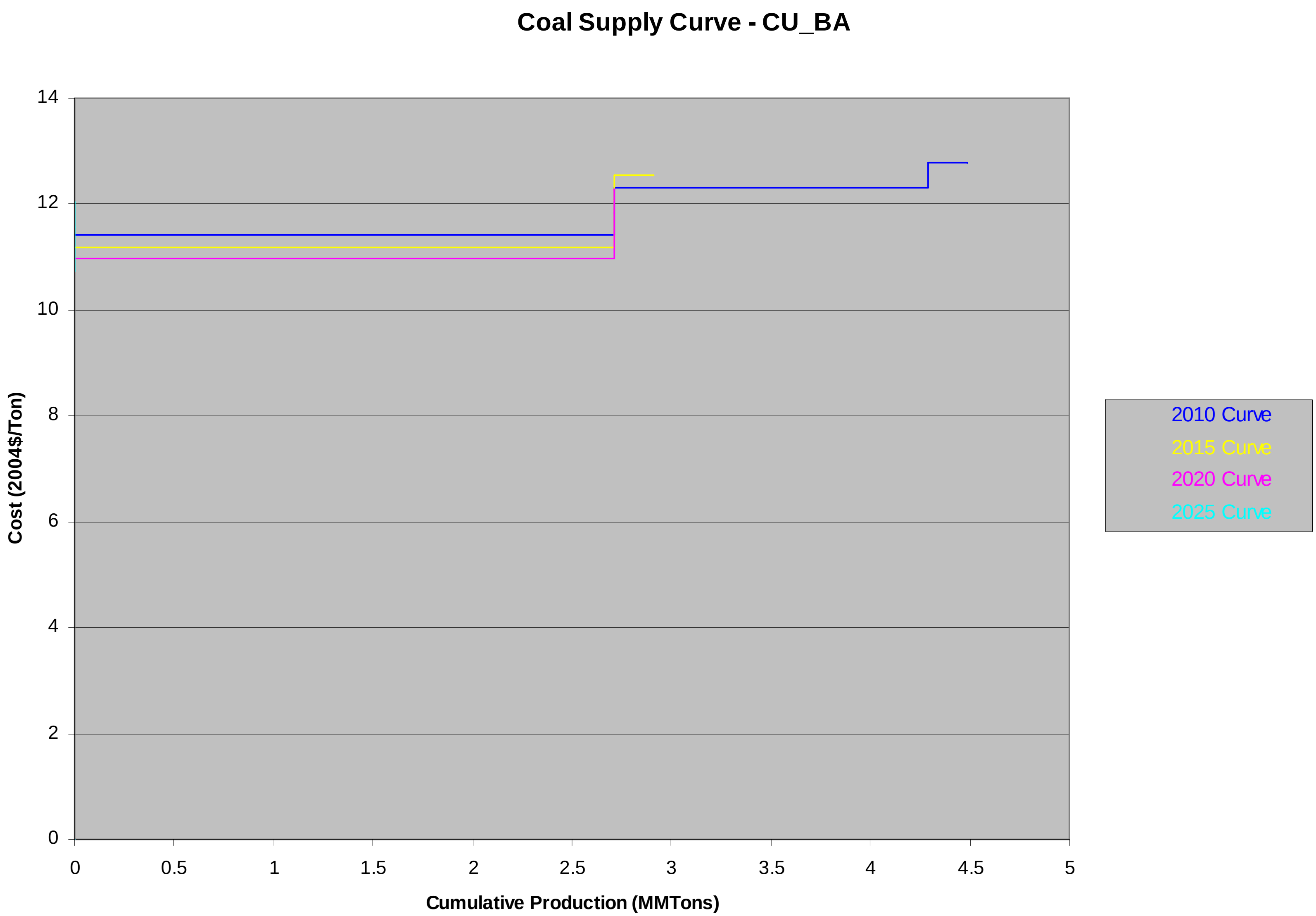
Coal Supply Curve - WG_SD



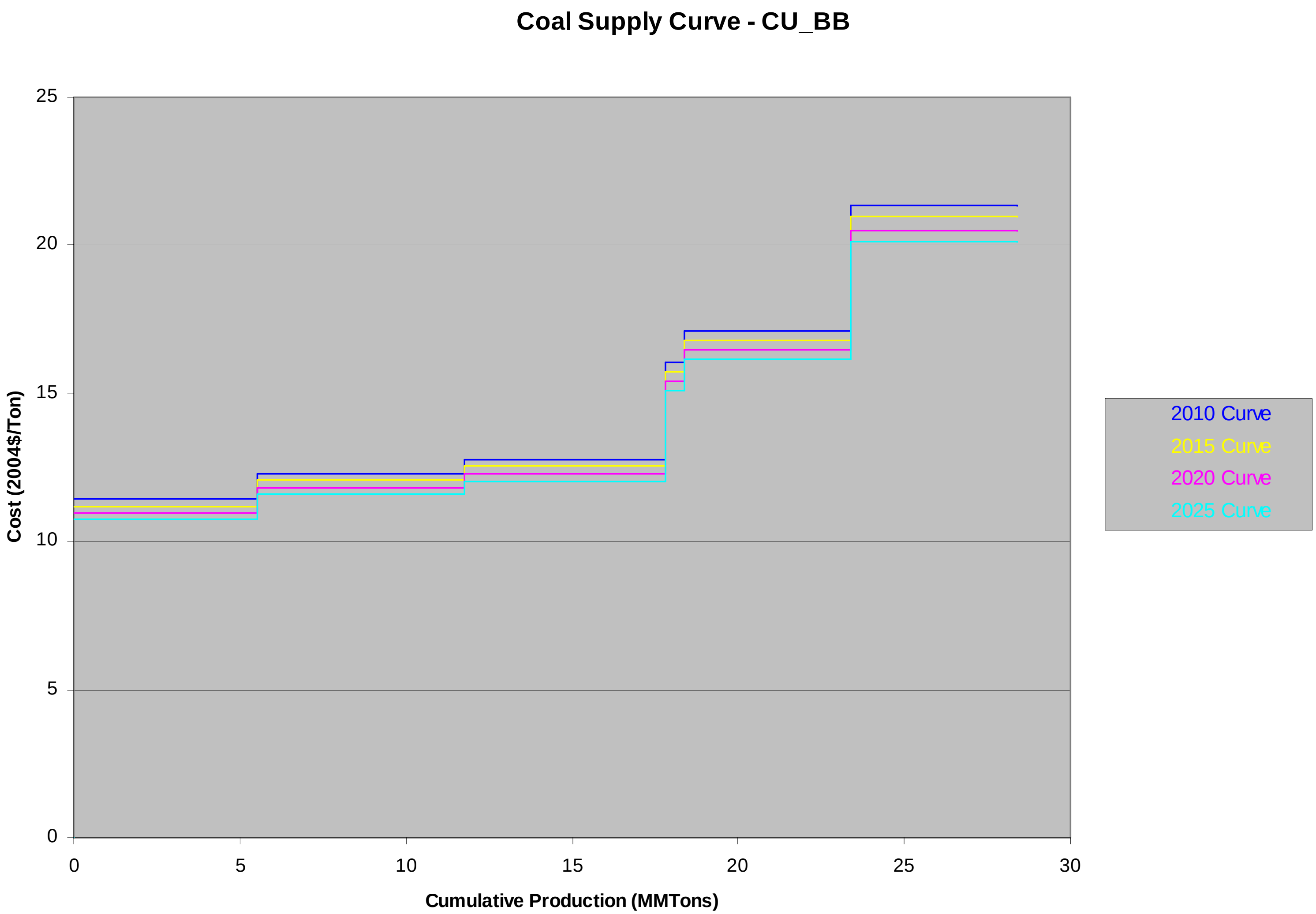

Coal Supply Curve - CG_BA
Cost (2004$/Ton)
Cumulative Production (MMTons)
0
2
4
6
8
10
12
14
16
18
0
5
10
15
20
25
30
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - CG_BB



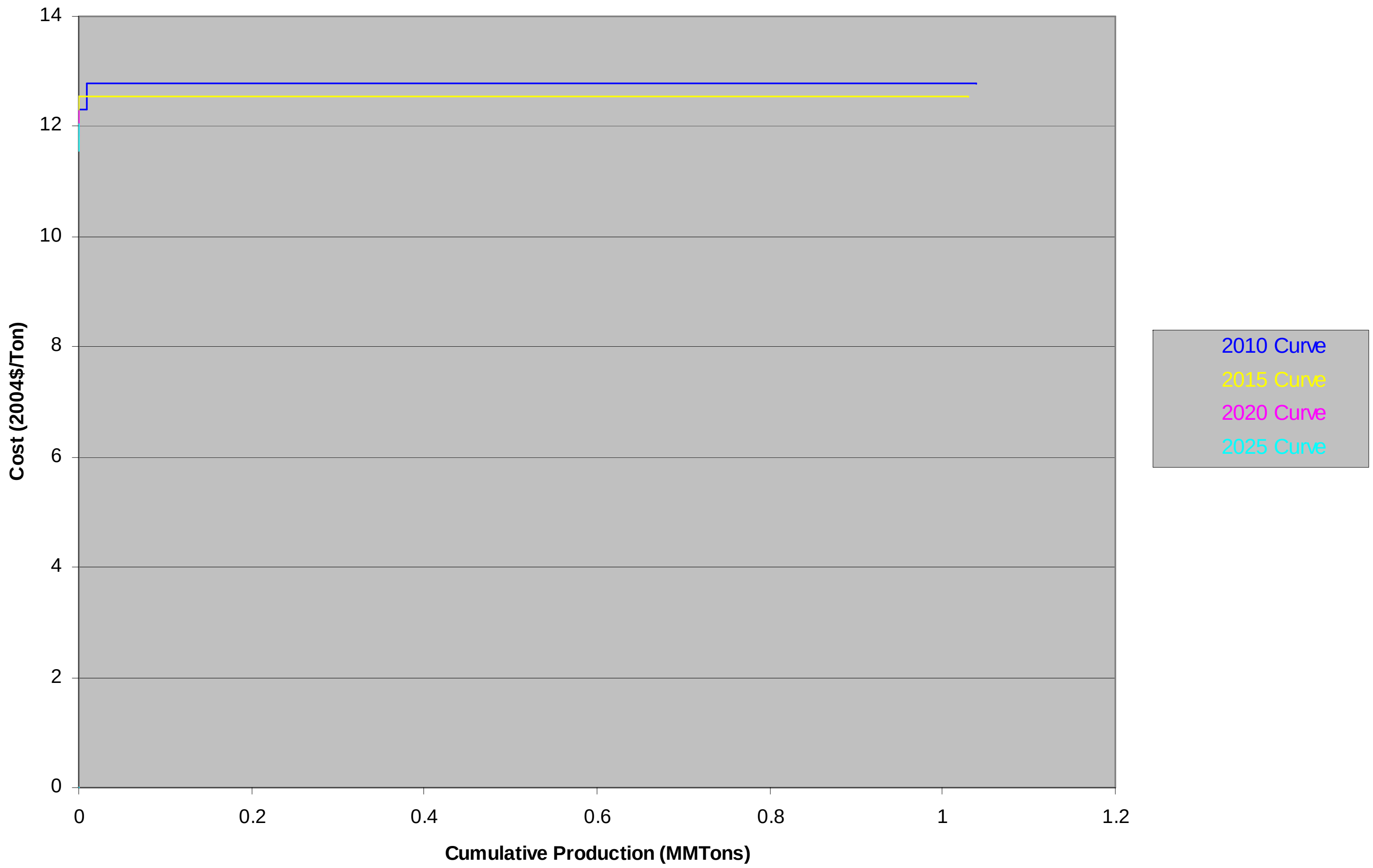


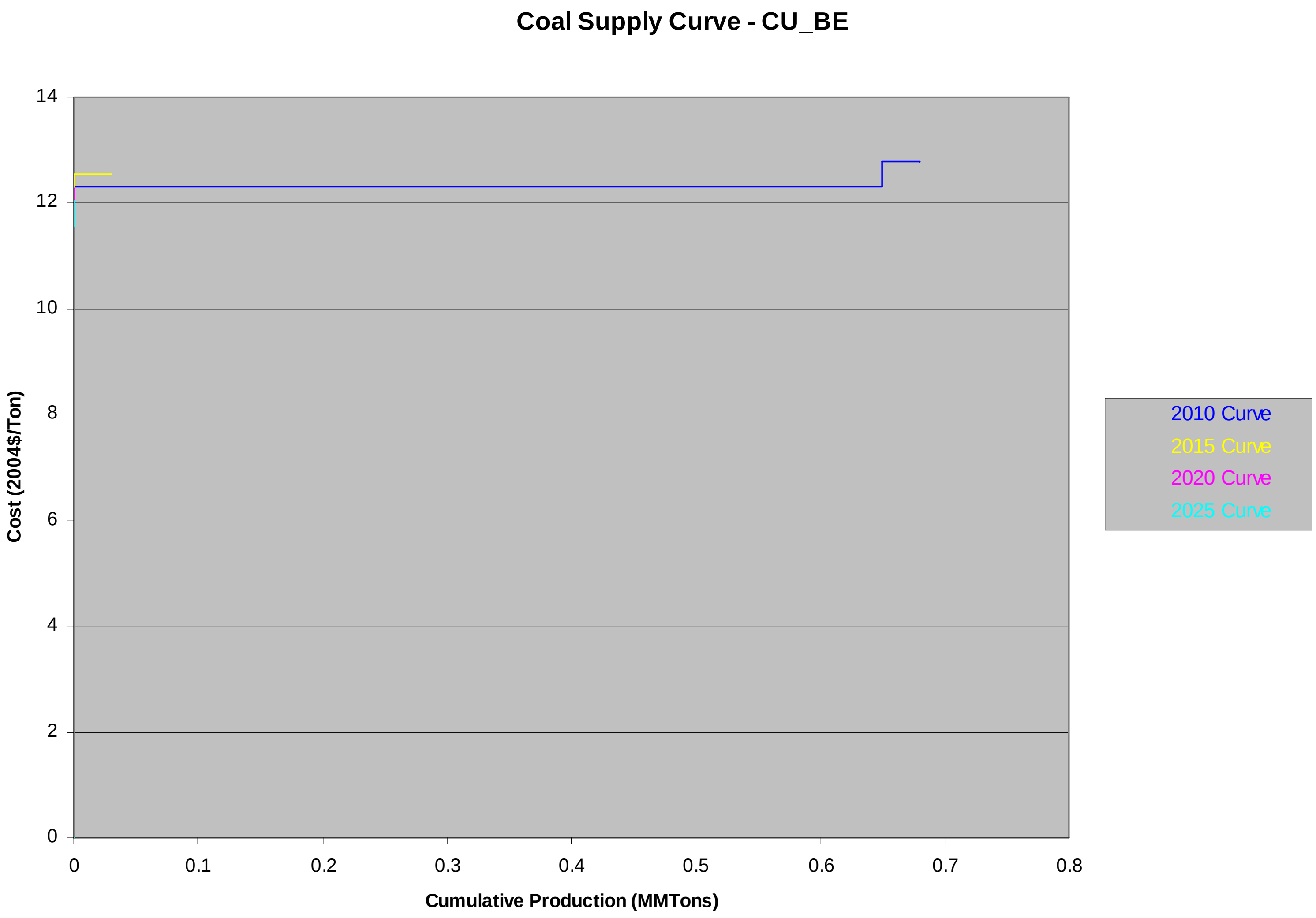
Coal Supply Curve - CU_BA
Cost (2004$/Ton)
Cumulative Production (MMTons)
14
12
10
8
6
4
2
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
2010 Curve
2015 Curve
2020 Curve
2025 Curve



Coal Supply Curve - CU_BB
Cost (2004$/Ton)
0
5
10
15
20
25
0
5
10
15
20
25
30
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

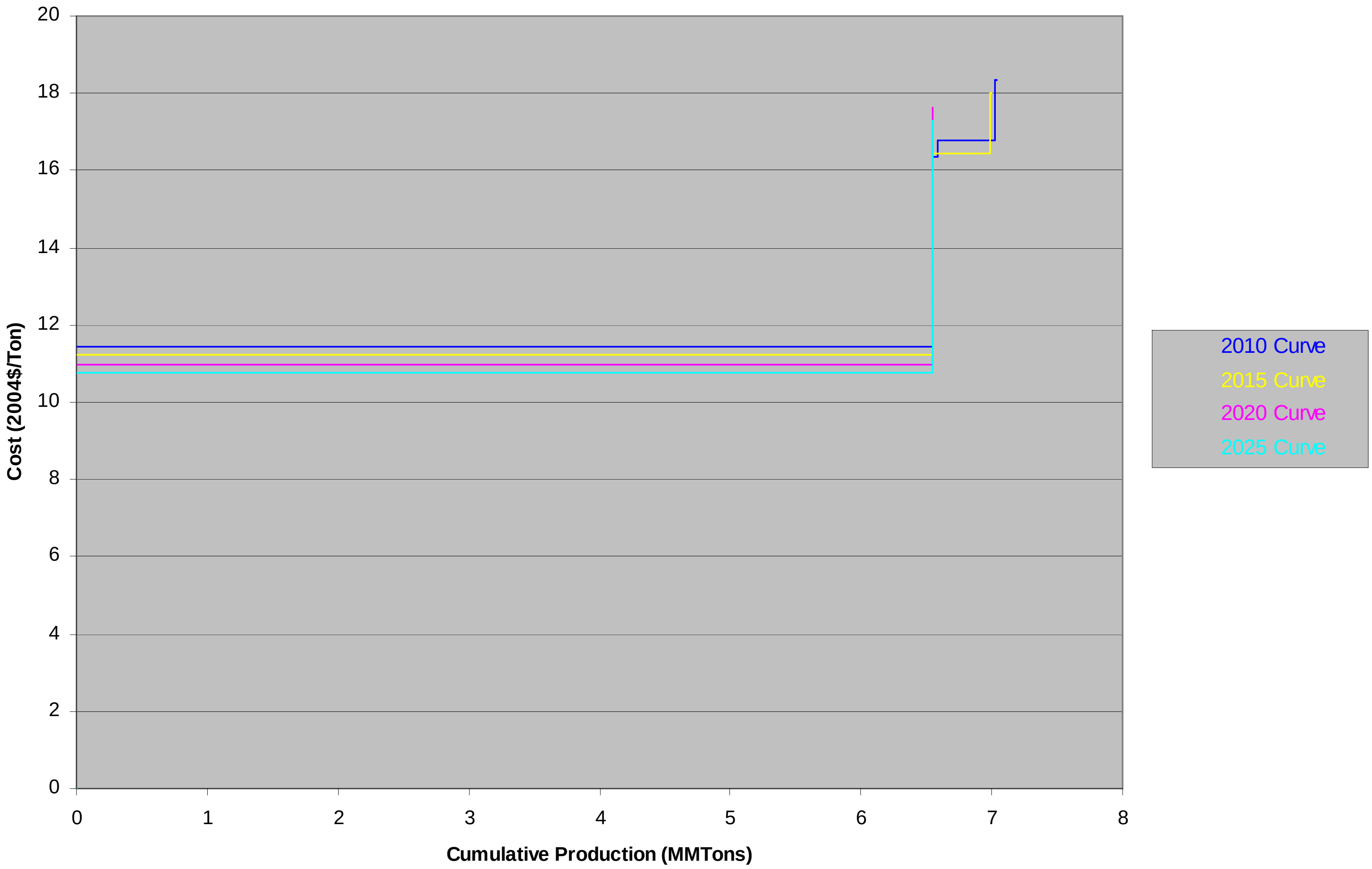
Coal Supply Curve - CU_BD

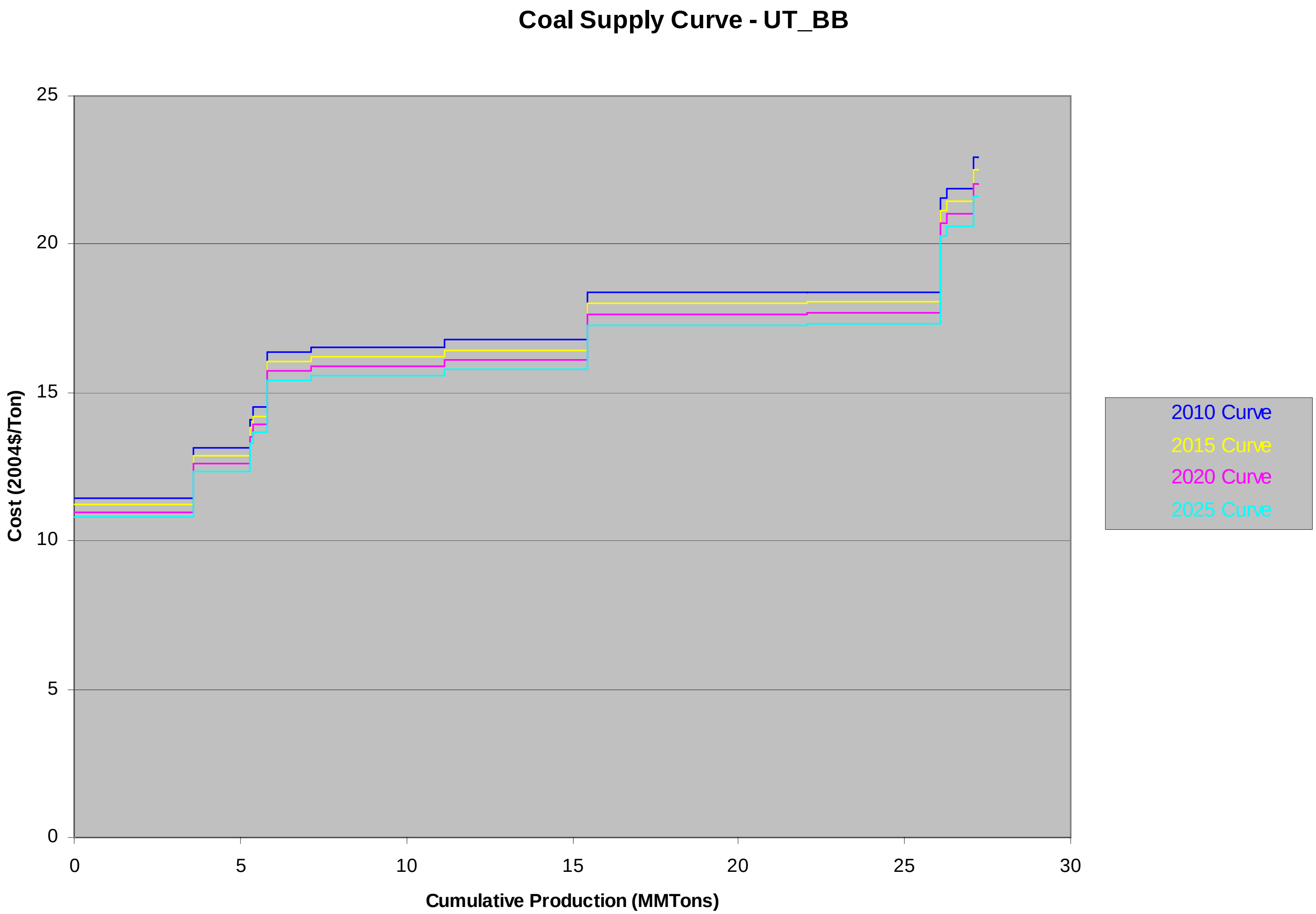




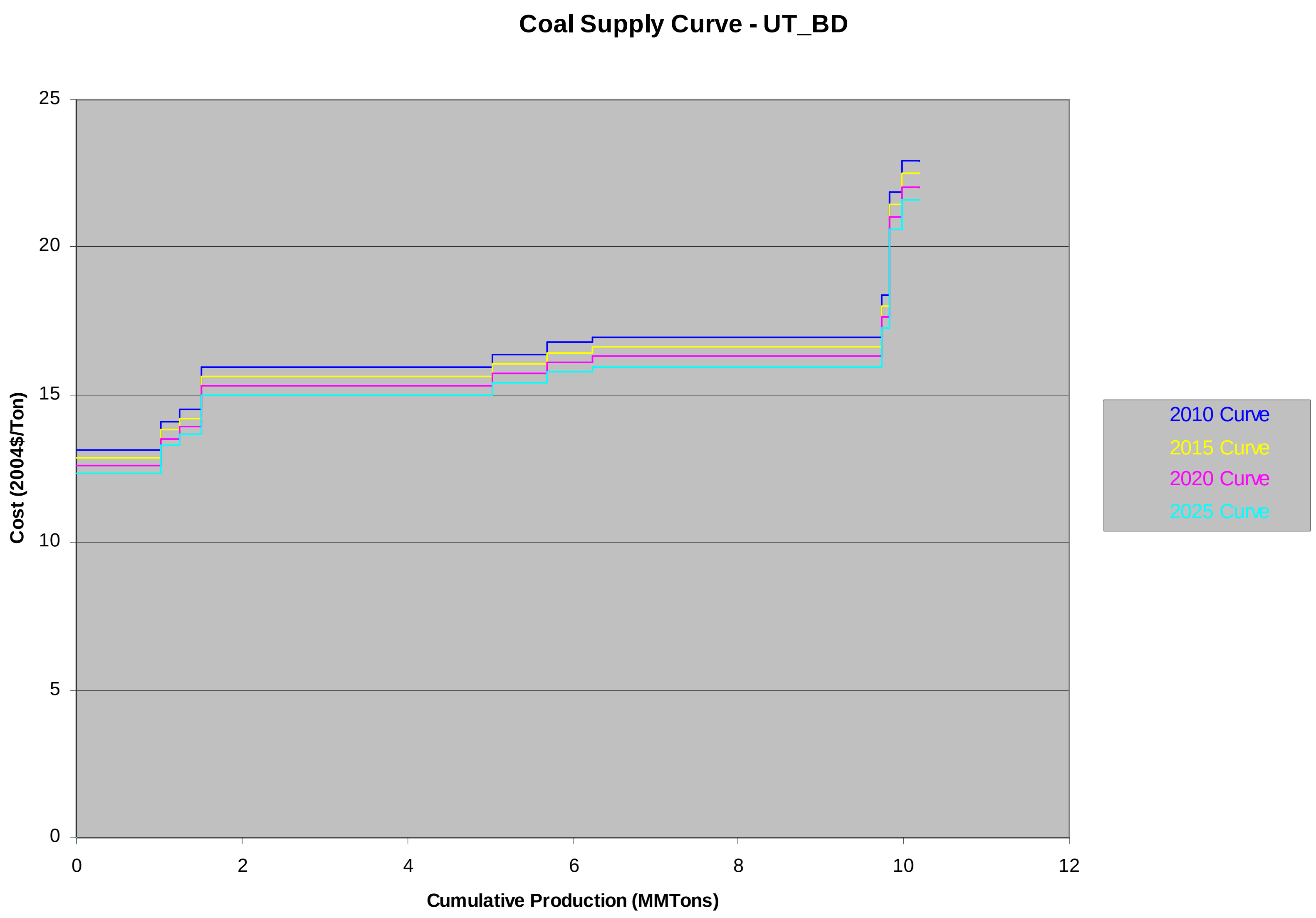
Coal Supply Curve - CU_BE
Cost (2004$/Ton)
14
12
10
8
6
4
2
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - UT_BA

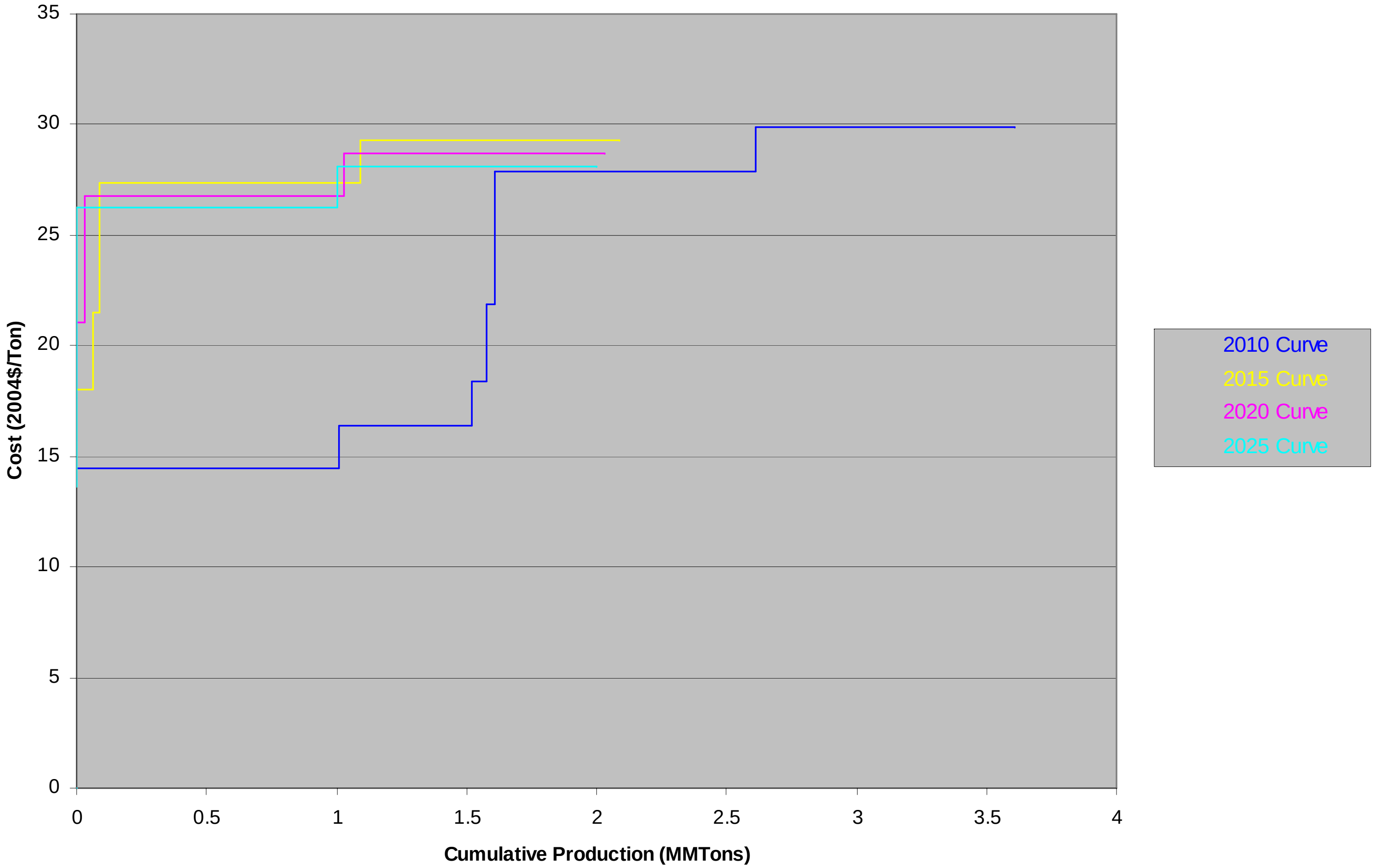


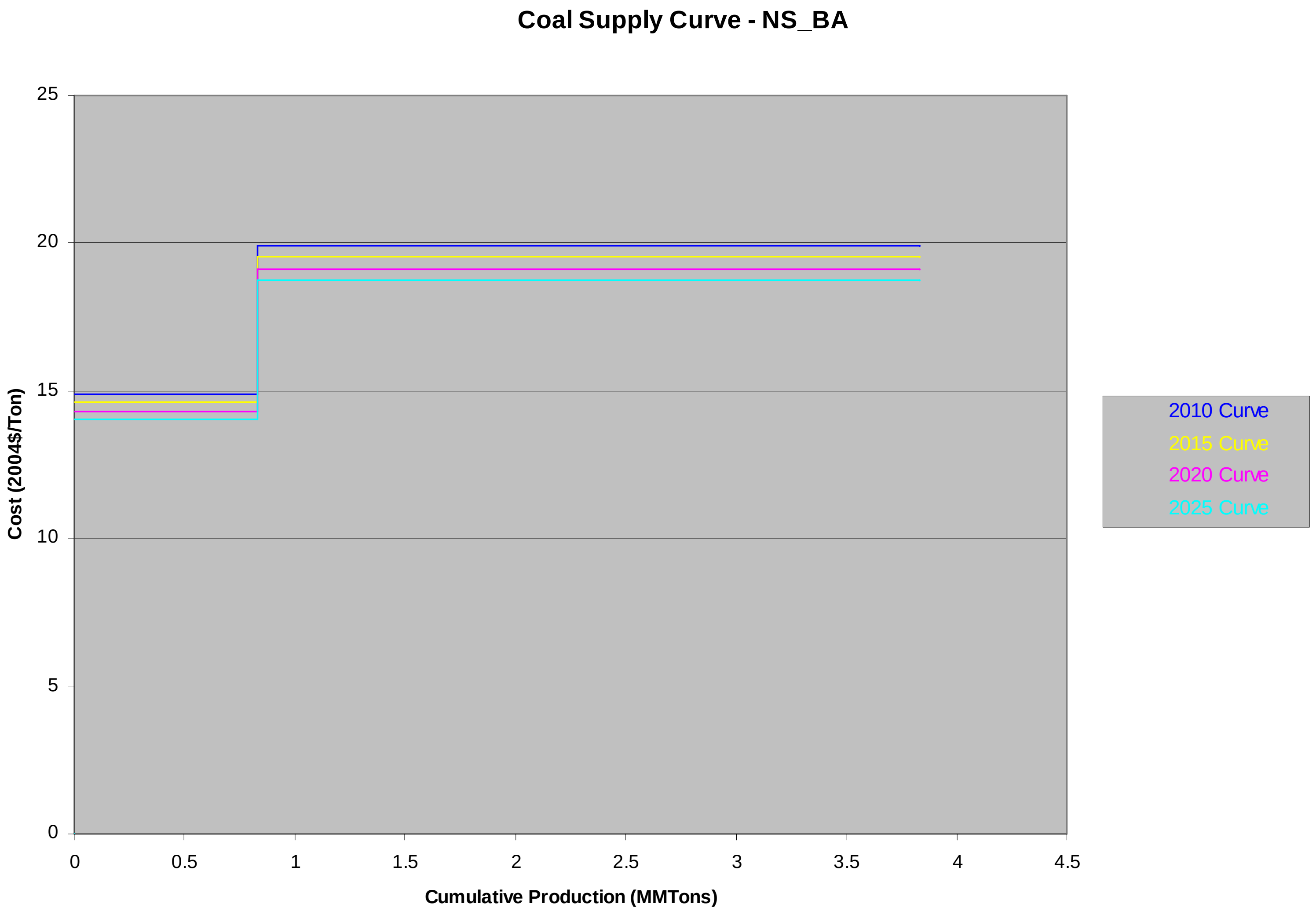


Coal Supply Curve - UT_BB
25
20
15
10
5
0
Cost (2004$/Ton)
0
5
10
15
20
25
30
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

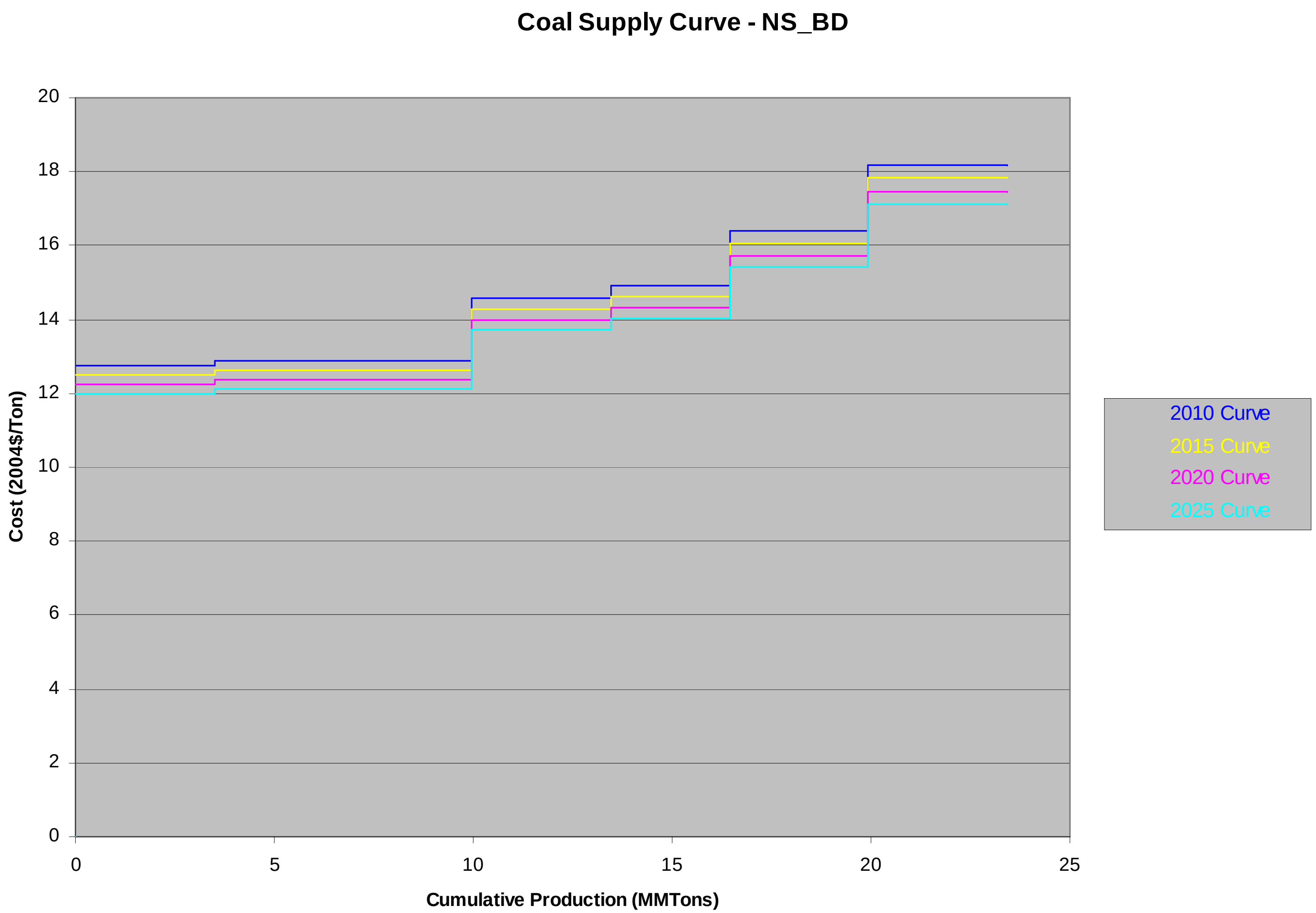

Coal Supply Curve - UT_BD
Cost (2004$/Ton)
0
5
10
15
20
25
0
2
4
6
8
10
12
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - UT_BE

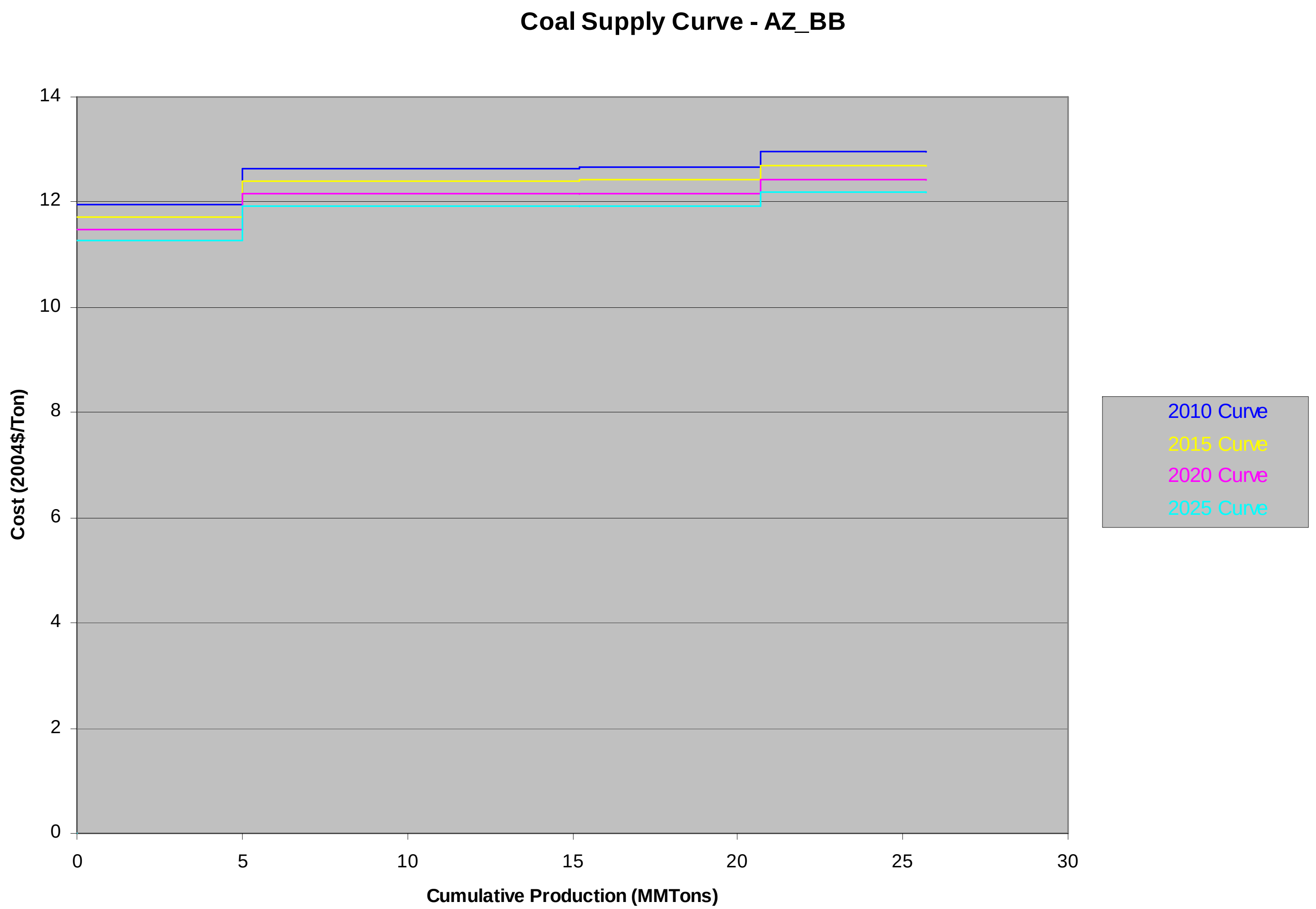




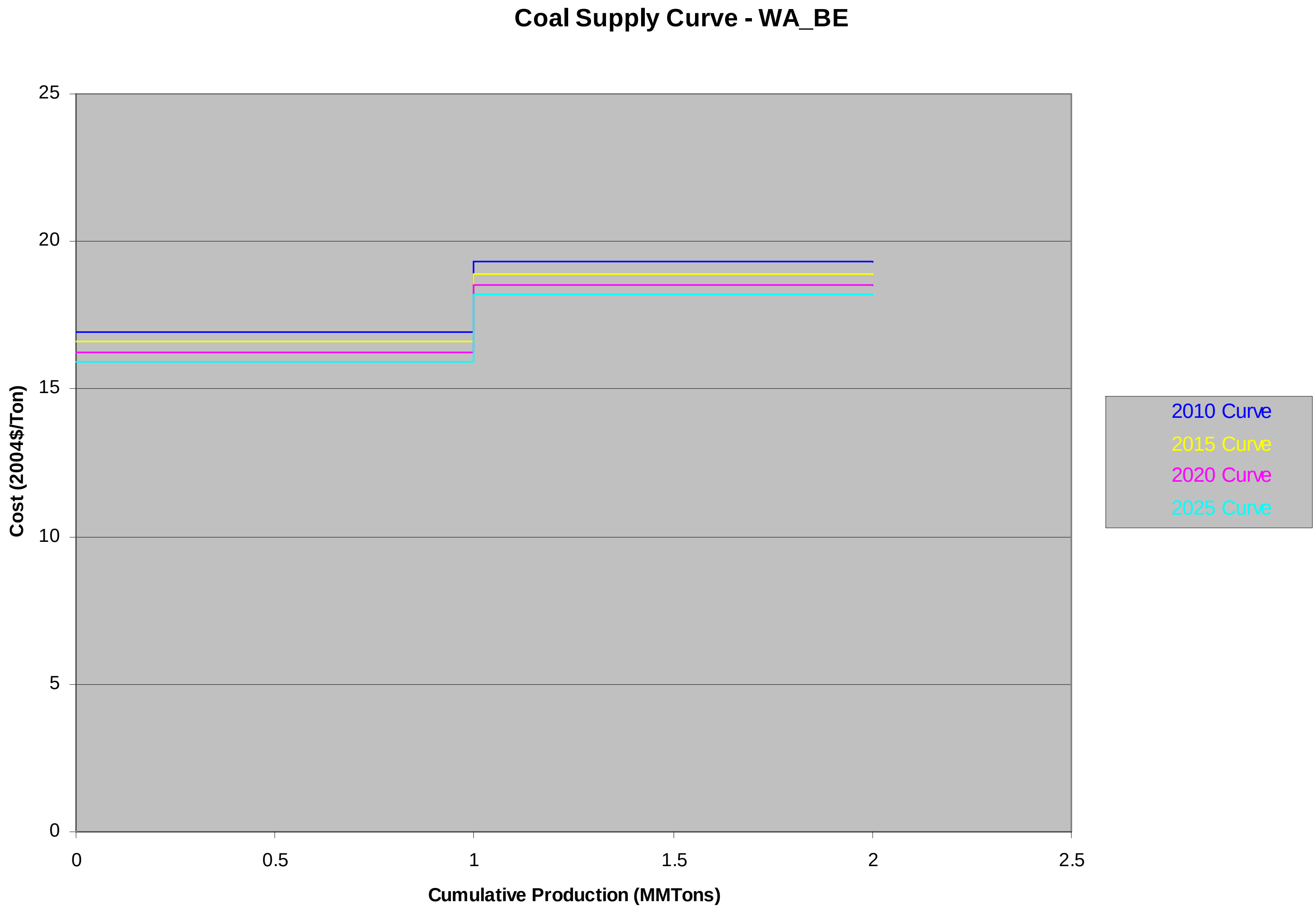
Coal Supply Curve - NS_BA
Cost (2004$/Ton)
25
20
15
10
5
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



Coal Supply Curve - NS_BD
Cost (2004$/Ton)
0
2
4
6
8
10
12
14
16
18
20
0
5
10
15
20
25
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

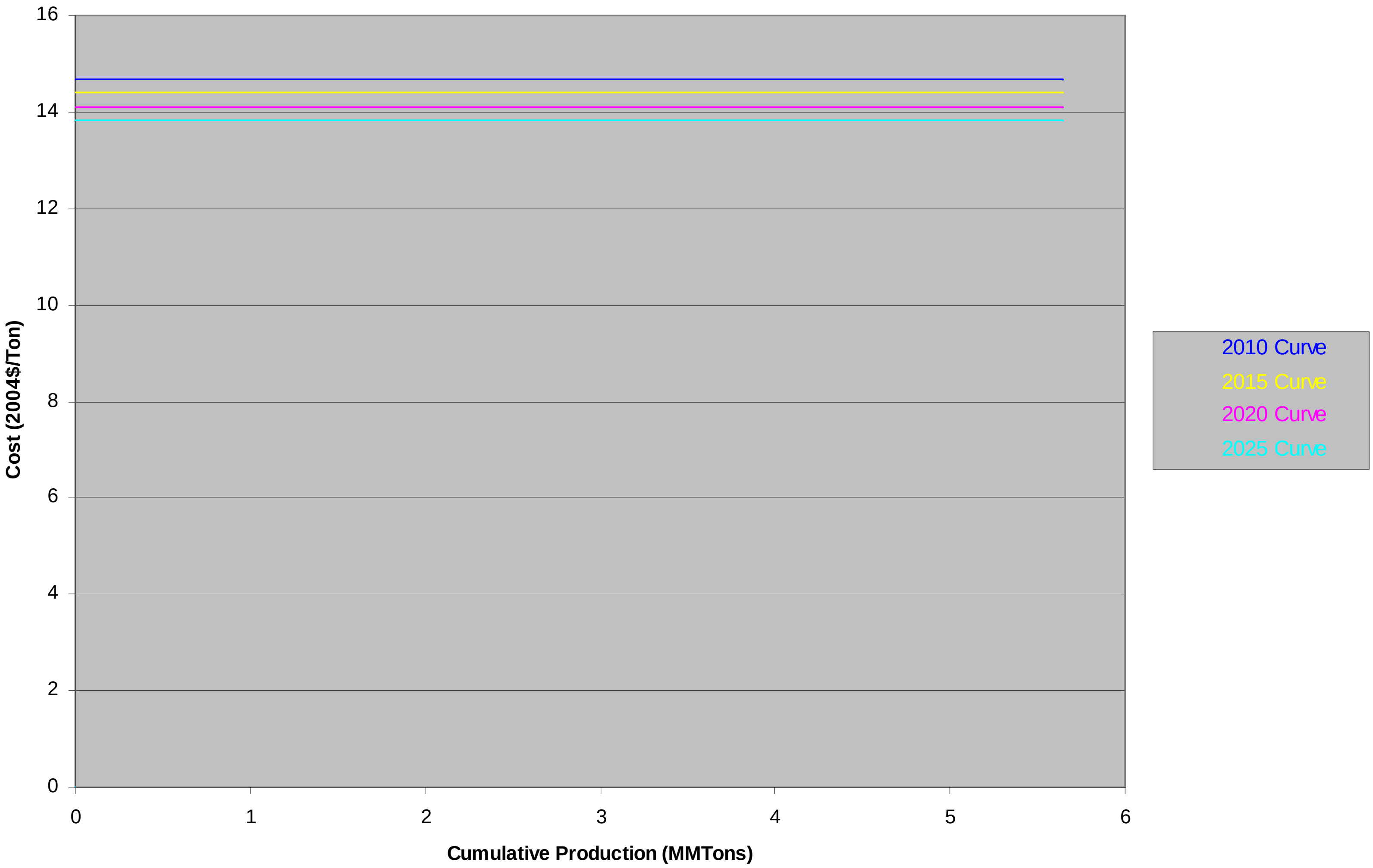


Coal Supply Curve - AZ_BB
14
12
10
8
6
4
2
0
Cost (2004$/Ton)
0
5
10
15
20
25
30
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve



Coal Supply Curve - WA_BE
Cost (2004$/Ton)
25
20
15
10
5
0
0
0.5
1
1.5
2
2.5
Cumulative Production (MMTons)
2010 Curve
2015 Curve
2020 Curve
2025 Curve

Coal Supply Curve - WA_SE



Appendix 8-6. Coal Transportation Matrix for EPA Base Case 2006

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
AZ	Arizona	AMM1	AMMM_High-Cost Competitive_Mine Mouth_Rail	1.03
NS	New Mexico, San Juan	AMM1	AMMM_High-Cost Competitive_Mine Mouth_Rail	1.03
WN	West Virginia, North	NAI1	NAIN_High-Cost Competitive_Mine Mouth_Rail	1.03
WL	Wyoming, Powder River Basin (8400)	NAI1	NAIN_High-Cost Competitive_Mine Mouth_Rail	28.96
LA	Louisiana	TXL1	TXLG_High-Cost Competitive_Mine Mouth_Rail	1.03
WL	Wyoming, Powder River Basin (8400)	TXL1	TXLG_High-Cost Competitive_Mine Mouth_Rail	27.76
WH	Wyoming, Powder River Basin (8800)	NAI1	NAIN_High-Cost Competitive_Mine Mouth_Rail	29.24
WH	Wyoming, Powder River Basin (8800)	TXL1	TXLG_High-Cost Competitive_Mine Mouth_Rail	25.54
ME	Montana, East	DAL1	DALG_High-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	4.52
WL	Wyoming, Powder River Basin (8400)	DAL1	DALG_High-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	12.04
WL	Wyoming, Powder River Basin (8400)	PRB1	PRB_High-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.44
WL	Wyoming, Powder River Basin (8400)	WYG1	WYGR_High-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.44
WH	Wyoming, Powder River Basin (8800)	DAL1	DALG_High-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	12.54
WH	Wyoming, Powder River Basin (8800)	PRB1	PRB_High-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
AL	Alabama	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	0.00
CG	Colorado, Green River	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	27.16
CU	Colorado, Uinta	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	31.87
IL	Illinois	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	26.45
IN	Indiana	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	22.60
KE	Kentucky East	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	24.96
KW	Kentucky West	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	13.84
PW	Pennsylvania, West	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	26.92
WN	West Virginia, North	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	27.04
WL	Wyoming, Powder River Basin (8400)	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	25.94
WS	West Virginia, South	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	23.69
CG	Colorado, Green River	AMN1	AMNR_High-Cost Competitive_Not Mine Mouth_Rail	20.28
CU	Colorado, Uinta	AMN1	AMNR_High-Cost Competitive_Not Mine Mouth_Rail	22.53
WL	Wyoming, Powder River Basin (8400)	AMN1	AMNR_High-Cost Competitive_Not Mine Mouth_Rail	22.46
KE	Kentucky East	CAI1	CAIN_High-Cost Competitive_Not Mine Mouth_Rail	8.44
MD	Maryland	CAI1	CAIN_High-Cost Competitive_Not Mine Mouth_Rail	16.67
OH	Ohio	CAI1	CAIN_High-Cost Competitive_Not Mine Mouth_Rail	14.48
PW	Pennsylvania, West	CAI1	CAIN_High-Cost Competitive_Not Mine Mouth_Rail	23.78
TN	Tennessee	CAI1	CAIN_High-Cost Competitive_Not Mine Mouth_Rail	11.95
VA	Virginia	CAI1	CAIN_High-Cost Competitive_Not Mine Mouth_Rail	4.19
WN	West Virginia, North	CAI1	CAIN_High-Cost Competitive_Not Mine Mouth_Rail	13.05
WL	Wyoming, Powder River Basin (8400)	CAI1	CAIN_High-Cost Competitive_Not Mine Mouth_Rail	28.61
WS	West Virginia, South	CAI1	CAIN_High-Cost Competitive_Not Mine Mouth_Rail	0.00
IL	Illinois	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	34.77
IN	Indiana	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	30.55
KE	Kentucky East	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	11.17
KW	Kentucky West	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	23.38
PW	Pennsylvania, West	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	18.19
TN	Tennessee	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	17.96
VA	Virginia	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	13.61
WN	West Virginia, North	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	22.94
WL	Wyoming, Powder River Basin (8400)	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	34.52
WS	West Virginia, South	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	20.18
CG	Colorado, Green River	CC1	CC_High-Cost Competitive_Not Mine Mouth_Rail	6.41
CU	Colorado, Uinta	CC1	CC_High-Cost Competitive_Not Mine Mouth_Rail	8.66
WL	Wyoming, Powder River Basin (8400)	CC1	CC_High-Cost Competitive_Not Mine Mouth_Rail	10.43
CG	Colorado, Green River	CU1	CU_High-Cost Competitive_Not Mine Mouth_Rail	8.19
CU	Colorado, Uinta	CU1	CU_High-Cost Competitive_Not Mine Mouth_Rail	5.71
UT	Utah	CU1	CU_High-Cost Competitive_Not Mine Mouth_Rail	1.42
WL	Wyoming, Powder River Basin (8400)	CU1	CU_High-Cost Competitive_Not Mine Mouth_Rail	16.44
CG	Colorado, Green River	EIM1	EIMR_High-Cost Competitive_Not Mine Mouth_Rail	21.65
CU	Colorado, Uinta	EIM1	EIMR_High-Cost Competitive_Not Mine Mouth_Rail	23.90
IN	Indiana	EIM1	EIMR_High-Cost Competitive_Not Mine Mouth_Rail	16.45
KW	Kentucky West	EIM1	EIMR_High-Cost Competitive_Not Mine Mouth_Rail	20.72
WL	Wyoming, Powder River Basin (8400)	EIM1	EIMR_High-Cost Competitive_Not Mine Mouth_Rail	14.12
CG	Colorado, Green River	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	38.31
CU	Colorado, Uinta	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	40.56
IL	Illinois	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	36.94
IN	Indiana	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	32.73
KE	Kentucky East	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	20.75
KW	Kentucky West	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	30.39
PW	Pennsylvania, West	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	35.91
TN	Tennessee	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	23.73
VA	Virginia	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	18.44
WN	West Virginia, North	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	29.88
WL	Wyoming, Powder River Basin (8400)	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	35.86
WS	West Virginia, South	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	22.83
CG	Colorado, Green River	GFR1	GFRL_High-Cost Competitive_Not Mine Mouth_Rail	23.89
CU	Colorado, Uinta	GFR1	GFRL_High-Cost Competitive_Not Mine Mouth_Rail	26.14
WL	Wyoming, Powder River Basin (8400)	GFR1	GFRL_High-Cost Competitive_Not Mine Mouth_Rail	29.72
CG	Colorado, Green River	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	25.57
CU	Colorado, Uinta	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	27.82
IL	Illinois	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	7.40
IN	Indiana	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	6.84
KE	Kentucky East	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	8.08
KW	Kentucky West	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	6.94
OH	Ohio	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	13.04

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
PW	Pennsylvania, West	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	22.36
WN	West Virginia, North	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	17.53
WL	Wyoming, Powder River Basin (8400)	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	19.81
WS	West Virginia, South	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	17.87
CG	Colorado, Green River	III1	III_High-Cost Competitive_Not Mine Mouth_Rail	23.05
CU	Colorado, Uinta	III1	III_High-Cost Competitive_Not Mine Mouth_Rail	25.30
IL	Illinois	III1	III_High-Cost Competitive_Not Mine Mouth_Rail	7.51
IN	Indiana	III1	III_High-Cost Competitive_Not Mine Mouth_Rail	3.31
KE	Kentucky East	III1	III_High-Cost Competitive_Not Mine Mouth_Rail	17.41
KW	Kentucky West	III1	III_High-Cost Competitive_Not Mine Mouth_Rail	6.30
MP	Montana, Powder River	III1	III_High-Cost Competitive_Not Mine Mouth_Rail	19.03
PW	Pennsylvania, West	III1	III_High-Cost Competitive_Not Mine Mouth_Rail	18.92
WL	Wyoming, Powder River Basin (8400)	III1	III_High-Cost Competitive_Not Mine Mouth_Rail	17.81
CG	Colorado, Green River	IMB1	IMBG_High-Cost Competitive_Not Mine Mouth_Rail	19.52
CU	Colorado, Uinta	IMB1	IMBG_High-Cost Competitive_Not Mine Mouth_Rail	24.77
IL	Illinois	IMB1	IMBG_High-Cost Competitive_Not Mine Mouth_Rail	6.44
IN	Indiana	IMB1	IMBG_High-Cost Competitive_Not Mine Mouth_Rail	9.40
KE	Kentucky East	IMB1	IMBG_High-Cost Competitive_Not Mine Mouth_Rail	24.45
KW	Kentucky West	IMB1	IMBG_High-Cost Competitive_Not Mine Mouth_Rail	13.89
WN	West Virginia, North	IMB1	IMBG_High-Cost Competitive_Not Mine Mouth_Rail	23.48
WL	Wyoming, Powder River Basin (8400)	IMB1	IMBG_High-Cost Competitive_Not Mine Mouth_Rail	17.44
WS	West Virginia, South	IMB1	IMBG_High-Cost Competitive_Not Mine Mouth_Rail	20.90
CG	Colorado, Green River	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	29.80
CU	Colorado, Uinta	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	32.05
MP	Montana, Powder River	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	23.84
WL	Wyoming, Powder River Basin (8400)	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	24.93
WS	West Virginia, South	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	19.54
CG	Colorado, Green River	MNR1	MNRL_High-Cost Competitive_Not Mine Mouth_Rail	21.69
CU	Colorado, Uinta	MNR1	MNRL_High-Cost Competitive_Not Mine Mouth_Rail	23.94
KW	Kentucky West	MNR1	MNRL_High-Cost Competitive_Not Mine Mouth_Rail	37.93
MP	Montana, Powder River	MNR1	MNRL_High-Cost Competitive_Not Mine Mouth_Rail	9.39
WL	Wyoming, Powder River Basin (8400)	MNR1	MNRL_High-Cost Competitive_Not Mine Mouth_Rail	14.48
CG	Colorado, Green River	MWR1	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	15.06
CU	Colorado, Uinta	MWR1	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	17.31
IL	Illinois	MWR1	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	22.01
KW	Kentucky West	MWR1	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	34.83
MP	Montana, Powder River	MWR1	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	18.51
WL	Wyoming, Powder River Basin (8400)	MWR1	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	10.64
KE	Kentucky East	NAI2	NAIN_High-Cost Competitive_Not Mine Mouth_Rail	15.88
MD	Maryland	NAI2	NAIN_High-Cost Competitive_Not Mine Mouth_Rail	1.39
PW	Pennsylvania, West	NAI2	NAIN_High-Cost Competitive_Not Mine Mouth_Rail	6.13
TN	Tennessee	NAI2	NAIN_High-Cost Competitive_Not Mine Mouth_Rail	25.33
WN	West Virginia, North	NAI2	NAIN_High-Cost Competitive_Not Mine Mouth_Rail	4.32
WL	Wyoming, Powder River Basin (8400)	NAI2	NAIN_High-Cost Competitive_Not Mine Mouth_Rail	27.26
WS	West Virginia, South	NAI2	NAIN_High-Cost Competitive_Not Mine Mouth_Rail	17.38
KE	Kentucky East	NE1	NE_High-Cost Competitive_Not Mine Mouth_Rail	25.19
OH	Ohio	NE1	NE_High-Cost Competitive_Not Mine Mouth_Rail	23.99
PW	Pennsylvania, West	NE1	NE_High-Cost Competitive_Not Mine Mouth_Rail	20.95
TN	Tennessee	NE1	NE_High-Cost Competitive_Not Mine Mouth_Rail	32.28
VA	Virginia	NE1	NE_High-Cost Competitive_Not Mine Mouth_Rail	29.72
WS	West Virginia, South	NE1	NE_High-Cost Competitive_Not Mine Mouth_Rail	26.96
CG	Colorado, Green River	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	22.40
CU	Colorado, Uinta	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	24.65
IL	Illinois	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	12.13
IN	Indiana	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	9.47
KE	Kentucky East	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	17.85
KW	Kentucky West	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	12.46
MP	Montana, Powder River	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	15.84
OH	Ohio	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	14.55
PW	Pennsylvania, West	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	17.94
VA	Virginia	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	18.18
WN	West Virginia, North	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	23.36
WL	Wyoming, Powder River Basin (8400)	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	15.07
WS	West Virginia, South	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	23.08
CG	Colorado, Green River	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	29.07
CU	Colorado, Uinta	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	31.32
IL	Illinois	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	19.29
IN	Indiana	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	19.86
KE	Kentucky East	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	12.98
KW	Kentucky West	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	19.52
MD	Maryland	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	12.29
OH	Ohio	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	9.15
PW	Pennsylvania, West	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	7.56
TN	Tennessee	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	20.43
VA	Virginia	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	19.38
WN	West Virginia, North	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	11.58
WL	Wyoming, Powder River Basin (8400)	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	21.71
WS	West Virginia, South	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	17.74
KE	Kentucky East	NU1	NU_High-Cost Competitive_Not Mine Mouth_Rail	20.94
OH	Ohio	NU1	NU_High-Cost Competitive_Not Mine Mouth_Rail	16.33
PW	Pennsylvania, West	NU1	NU_High-Cost Competitive_Not Mine Mouth_Rail	12.97
TN	Tennessee	NU1	NU_High-Cost Competitive_Not Mine Mouth_Rail	23.43
VA	Virginia	NU1	NU_High-Cost Competitive_Not Mine Mouth_Rail	19.92

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
WN	West Virginia, North	NU1	NU_High-Cost Competitive_Not Mine Mouth_Rail	16.99
WL	Wyoming, Powder River Basin (8400)	NU1	NU_High-Cost Competitive_Not Mine Mouth_Rail	26.58
WS	West Virginia, South	NU1	NU_High-Cost Competitive_Not Mine Mouth_Rail	23.34
KE	Kentucky East	ORP1	ORPB_High-Cost Competitive_Not Mine Mouth_Rail	17.40
MD	Maryland	ORP1	ORPB_High-Cost Competitive_Not Mine Mouth_Rail	10.42
OH	Ohio	ORP1	ORPB_High-Cost Competitive_Not Mine Mouth_Rail	4.77
PW	Pennsylvania, West	ORP1	ORPB_High-Cost Competitive_Not Mine Mouth_Rail	4.34
TN	Tennessee	ORP1	ORPB_High-Cost Competitive_Not Mine Mouth_Rail	22.50
WN	West Virginia, North	ORP1	ORPB_High-Cost Competitive_Not Mine Mouth_Rail	5.61
WL	Wyoming, Powder River Basin (8400)	ORP1	ORPB_High-Cost Competitive_Not Mine Mouth_Rail	33.32
WS	West Virginia, South	ORP1	ORPB_High-Cost Competitive_Not Mine Mouth_Rail	12.16
KE	Kentucky East	PC1	PC_High-Cost Competitive_Not Mine Mouth_Rail	21.29
MD	Maryland	PC1	PC_High-Cost Competitive_Not Mine Mouth_Rail	18.54
OH	Ohio	PC1	PC_High-Cost Competitive_Not Mine Mouth_Rail	10.19
PW	Pennsylvania, West	PC1	PC_High-Cost Competitive_Not Mine Mouth_Rail	4.88
WN	West Virginia, North	PC1	PC_High-Cost Competitive_Not Mine Mouth_Rail	21.48
WS	West Virginia, South	PC1	PC_High-Cost Competitive_Not Mine Mouth_Rail	23.70
KE	Kentucky East	PE1	PE_High-Cost Competitive_Not Mine Mouth_Rail	19.97
MD	Maryland	PE1	PE_High-Cost Competitive_Not Mine Mouth_Rail	10.07
OH	Ohio	PE1	PE_High-Cost Competitive_Not Mine Mouth_Rail	18.47
PW	Pennsylvania, West	PE1	PE_High-Cost Competitive_Not Mine Mouth_Rail	13.15
TN	Tennessee	PE1	PE_High-Cost Competitive_Not Mine Mouth_Rail	23.29
VA	Virginia	PE1	PE_High-Cost Competitive_Not Mine Mouth_Rail	20.29
WN	West Virginia, North	PE1	PE_High-Cost Competitive_Not Mine Mouth_Rail	13.01
WL	Wyoming, Powder River Basin (8400)	PE1	PE_High-Cost Competitive_Not Mine Mouth_Rail	31.34
WS	West Virginia, South	PE1	PE_High-Cost Competitive_Not Mine Mouth_Rail	18.48
CG	Colorado, Green River	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	33.79
CU	Colorado, Uinta	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	36.04
IL	Illinois	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	30.10
IN	Indiana	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	26.24
KE	Kentucky East	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	21.37
KW	Kentucky West	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	7.92
PW	Pennsylvania, West	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	13.44
UT	Utah	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	28.92
WN	West Virginia, North	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	29.72
WL	Wyoming, Powder River Basin (8400)	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	26.94
WS	West Virginia, South	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	17.00
CG	Colorado, Green River	TXL2	TXLG_High-Cost Competitive_Not Mine Mouth_Rail	18.93
CU	Colorado, Uinta	TXL2	TXLG_High-Cost Competitive_Not Mine Mouth_Rail	21.19
WL	Wyoming, Powder River Basin (8400)	TXL2	TXLG_High-Cost Competitive_Not Mine Mouth_Rail	27.88
KE	Kentucky East	VEP1	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	20.73
MD	Maryland	VEP1	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	13.33
OH	Ohio	VEP1	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	18.51
PW	Pennsylvania, West	VEP1	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	19.42
TN	Tennessee	VEP1	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	16.91
VA	Virginia	VEP1	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	19.18
WN	West Virginia, North	VEP1	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	16.27
WL	Wyoming, Powder River Basin (8400)	VEP1	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	34.63
WS	West Virginia, South	VEP1	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	13.51
CG	Colorado, Green River	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	24.62
CU	Colorado, Uinta	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	26.87
IL	Illinois	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	19.72
IN	Indiana	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	20.60
KE	Kentucky East	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	24.32
KW	Kentucky West	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	24.40
OH	Ohio	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	20.31
PW	Pennsylvania, West	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	22.80
VA	Virginia	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	27.79
WN	West Virginia, North	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	27.15
WL	Wyoming, Powder River Basin (8400)	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	23.18
WS	West Virginia, South	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	26.58
CG	Colorado, Green River	WON1	WONR_High-Cost Competitive_Not Mine Mouth_Rail	22.04
CU	Colorado, Uinta	WON1	WONR_High-Cost Competitive_Not Mine Mouth_Rail	19.57
WL	Wyoming, Powder River Basin (8400)	WON1	WONR_High-Cost Competitive_Not Mine Mouth_Rail	31.89
CG	Colorado, Green River	WYG2	WYGR_High-Cost Competitive_Not Mine Mouth_Rail	13.13
CU	Colorado, Uinta	WYG2	WYGR_High-Cost Competitive_Not Mine Mouth_Rail	15.38
WL	Wyoming, Powder River Basin (8400)	WYG2	WYGR_High-Cost Competitive_Not Mine Mouth_Rail	5.87
IL	Illinois	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	19.86
IN	Indiana	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	20.33
KE	Kentucky East	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	17.14
KE	Kentucky East	MNR1	MNRL_High-Cost Competitive_Not Mine Mouth_Rail	34.61
KW	Kentucky West	NE1	NE_High-Cost Competitive_Not Mine Mouth_Rail	40.34
KW	Kentucky West	ORP1	ORPB_High-Cost Competitive_Not Mine Mouth_Rail	11.37
OH	Ohio	EIM1	EIMR_High-Cost Competitive_Not Mine Mouth_Rail	21.01
OH	Ohio	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	12.60
PW	Pennsylvania, West	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	16.52
WN	West Virginia, North	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	22.65
WN	West Virginia, North	NE1	NE_High-Cost Competitive_Not Mine Mouth_Rail	22.29
WS	West Virginia, South	MNR1	MNRL_High-Cost Competitive_Not Mine Mouth_Rail	36.87
WH	Wyoming, Powder River Basin (8800)	ALR1	ALRL_High-Cost Competitive_Not Mine Mouth_Rail	25.30
WH	Wyoming, Powder River Basin (8800)	AMN1	AMNR_High-Cost Competitive_Not Mine Mouth_Rail	23.18
WH	Wyoming, Powder River Basin (8800)	CAI1	CAIN_High-Cost Competitive_Not Mine Mouth_Rail	27.32
WH	Wyoming, Powder River Basin (8800)	CAR1	CARL_High-Cost Competitive_Not Mine Mouth_Rail	34.80

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
WH	Wyoming, Powder River Basin (8800)	CC1	CC_High-Cost Competitive_Not Mine Mouth_Rail	9.58
WH	Wyoming, Powder River Basin (8800)	CU1	CU_High-Cost Competitive_Not Mine Mouth_Rail	15.60
WH	Wyoming, Powder River Basin (8800)	EIM1	EIMR_High-Cost Competitive_Not Mine Mouth_Rail	14.54
WH	Wyoming, Powder River Basin (8800)	FL1	FL_High-Cost Competitive_Not Mine Mouth_Rail	36.14
WH	Wyoming, Powder River Basin (8800)	GFR1	GFRL_High-Cost Competitive_Not Mine Mouth_Rail	28.20
WH	Wyoming, Powder River Basin (8800)	IBB1	IBBG_High-Cost Competitive_Not Mine Mouth_Rail	19.57
WH	Wyoming, Powder River Basin (8800)	III1	III_High-Cost Competitive_Not Mine Mouth_Rail	18.09
WH	Wyoming, Powder River Basin (8800)	IMB1	IMBG_High-Cost Competitive_Not Mine Mouth_Rail	17.86
WH	Wyoming, Powder River Basin (8800)	MIB1	MIBG_High-Cost Competitive_Not Mine Mouth_Rail	22.90
WH	Wyoming, Powder River Basin (8800)	MNR1	MNRL_High-Cost Competitive_Not Mine Mouth_Rail	14.48
WH	Wyoming, Powder River Basin (8800)	MWR1	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	11.87
WH	Wyoming, Powder River Basin (8800)	NAI2	NAIN_High-Cost Competitive_Not Mine Mouth_Rail	27.54
WH	Wyoming, Powder River Basin (8800)	NII1	NIIR_High-Cost Competitive_Not Mine Mouth_Rail	19.21
WH	Wyoming, Powder River Basin (8800)	NOR1	NORL_High-Cost Competitive_Not Mine Mouth_Rail	21.81
WH	Wyoming, Powder River Basin (8800)	NU1	NU_High-Cost Competitive_Not Mine Mouth_Rail	26.86
WH	Wyoming, Powder River Basin (8800)	ORP1	ORPB_High-Cost Competitive_Not Mine Mouth_Rail	24.11
WH	Wyoming, Powder River Basin (8800)	PE1	PE_High-Cost Competitive_Not Mine Mouth_Rail	31.62
WH	Wyoming, Powder River Basin (8800)	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	27.46
WH	Wyoming, Powder River Basin (8800)	TXL2	TXLG_High-Cost Competitive_Not Mine Mouth_Rail	22.98
WH	Wyoming, Powder River Basin (8800)	VEP1	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	34.78
WH	Wyoming, Powder River Basin (8800)	WIR1	WIRL_High-Cost Competitive_Not Mine Mouth_Rail	21.43
WH	Wyoming, Powder River Basin (8800)	WON1	WONR_High-Cost Competitive_Not Mine Mouth_Rail	22.99
CG	Colorado, Green River	III2	III_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	34.90
CU	Colorado, Uinta	III2	III_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	37.16
IL	Illinois	III2	III_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	21.43
IN	Indiana	III2	III_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	10.94
KE	Kentucky East	III2	III_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	20.67
KW	Kentucky West	III2	III_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	12.91
WL	Wyoming, Powder River Basin (8400)	III2	III_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	33.95
CG	Colorado, Green River	MWR2	MWRL_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	21.85
CU	Colorado, Uinta	MWR2	MWRL_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	24.10
WL	Wyoming, Powder River Basin (8400)	MWR2	MWRL_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	17.24
MD	Maryland	PC2	PC_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	15.44
OH	Ohio	PC2	PC_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	21.77
PW	Pennsylvania, West	PC2	PC_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	10.22
WN	West Virginia, North	PC2	PC_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	17.99
WL	Wyoming, Powder River Basin (8400)	TXL3	TXLG_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	40.37
OK	Oklahoma	MWR2	MWRL_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	9.03
WH	Wyoming, Powder River Basin (8800)	III2	III_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	34.37
WH	Wyoming, Powder River Basin (8800)	MWR2	MWRL_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	17.52
WH	Wyoming, Powder River Basin (8800)	TXL3	TXLG_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	38.46
CG	Colorado, Green River	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	34.12
CU	Colorado, Uinta	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	36.37
IL	Illinois	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	26.27
IN	Indiana	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	22.98
KE	Kentucky East	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	21.89
KW	Kentucky West	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	45.71
PW	Pennsylvania, West	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	30.12
WN	West Virginia, North	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	30.24
WL	Wyoming, Powder River Basin (8400)	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	28.55
WS	West Virginia, South	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	22.12
CG	Colorado, Green River	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	28.77
CU	Colorado, Uinta	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	31.02
IL	Illinois	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	10.56
IN	Indiana	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	7.47
KE	Kentucky East	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	8.87
KW	Kentucky West	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	4.14
OH	Ohio	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	11.62
PW	Pennsylvania, West	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	18.47
WN	West Virginia, North	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	14.92
WL	Wyoming, Powder River Basin (8400)	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	22.69
WS	West Virginia, South	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	15.17
KE	Kentucky East	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	5.90
MD	Maryland	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	5.90
OH	Ohio	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	9.17
PW	Pennsylvania, West	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	6.22
TN	Tennessee	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	16.99
VA	Virginia	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	10.43
WN	West Virginia, North	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	3.24
WL	Wyoming, Powder River Basin (8400)	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	26.78
WS	West Virginia, South	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	7.01
CG	Colorado, Green River	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	30.01
CU	Colorado, Uinta	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	32.27
IL	Illinois	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	17.01
IN	Indiana	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	13.72
KE	Kentucky East	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	13.90
KW	Kentucky West	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	18.37
PW	Pennsylvania, West	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	22.13
WN	West Virginia, North	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	9.88
WL	Wyoming, Powder River Basin (8400)	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	25.45
WS	West Virginia, South	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	12.63
KW	Kentucky West	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	18.08
TN	Tennessee	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	4.86

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
WH	Wyoming, Powder River Basin (8800)	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	18.76
WH	Wyoming, Powder River Basin (8800)	IBB2	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	20.17
WH	Wyoming, Powder River Basin (8800)	ORP2	ORPB_Low Cost Competitive_Not Mine Mouth_Rail	27.06
WH	Wyoming, Powder River Basin (8800)	TAB2	TABG_Low Cost Competitive_Not Mine Mouth_Rail	22.15
NS	New Mexico, San Juan	AMM3	AMMM_Low-Cost Competitive_Mine Mouth_Barge	1.03
AZ	Arizona	AMM4	AMMM_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
NS	New Mexico, San Juan	AMM4	AMMM_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
AL	Alabama	GFB2	GFBG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	5.80
OH	Ohio	NOR2	NORL_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
WL	Wyoming, Powder River Basin (8400)	NOR2	NORL_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	23.18
LA	Louisiana	TXL4	TXLG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
TX	Texas	TXL4	TXLG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
WG	Wyoming, Green River	WYG3	WYGR_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
WL	Wyoming, Powder River Basin (8400)	WYG3	WYGR_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	3.41
WH	Wyoming, Powder River Basin (8800)	NOR2	NORL_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	23.19
CG	Colorado, Green River	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	29.80
CU	Colorado, Uinta	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	32.05
IL	Illinois	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	13.74
IN	Indiana	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	11.26
KE	Kentucky East	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	17.28
KW	Kentucky West	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	12.45
PW	Pennsylvania, West	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	21.03
WN	West Virginia, North	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	12.11
WL	Wyoming, Powder River Basin (8400)	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	23.42
WS	West Virginia, South	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	18.48
CG	Colorado, Green River	EIM2	EIMR_Low-Cost Competitive_Not Mine Mouth_Barge	26.34
CU	Colorado, Uinta	EIM2	EIMR_Low-Cost Competitive_Not Mine Mouth_Barge	28.59
MP	Montana, Powder River	EIM2	EIMR_Low-Cost Competitive_Not Mine Mouth_Barge	15.30
WL	Wyoming, Powder River Basin (8400)	EIM2	EIMR_Low-Cost Competitive_Not Mine Mouth_Barge	15.87
CG	Colorado, Green River	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	33.80
CU	Colorado, Uinta	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	36.05
IL	Illinois	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	30.95
IN	Indiana	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	27.67
KE	Kentucky East	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	21.95
KW	Kentucky West	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	21.59
PW	Pennsylvania, West	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	35.55
VA	Virginia	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	23.37
WN	West Virginia, North	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	33.39
WL	Wyoming, Powder River Basin (8400)	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	22.40
CG	Colorado, Green River	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	30.60
CU	Colorado, Uinta	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	32.85
IL	Illinois	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	15.05
IN	Indiana	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	13.00
KE	Kentucky East	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	19.79
KW	Kentucky West	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	14.20
PW	Pennsylvania, West	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	22.78
WN	West Virginia, North	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	15.94
WL	Wyoming, Powder River Basin (8400)	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	24.22
WS	West Virginia, South	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	20.99
CG	Colorado, Green River	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	27.05
CU	Colorado, Uinta	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	29.30
IL	Illinois	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	9.97
IN	Indiana	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	6.04
KE	Kentucky East	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	8.59
KW	Kentucky West	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	6.55
OH	Ohio	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	6.61
PW	Pennsylvania, West	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	12.35
WN	West Virginia, North	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	5.51
WL	Wyoming, Powder River Basin (8400)	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	19.21
WS	West Virginia, South	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	9.80
CG	Colorado, Green River	III3	III_Low-Cost Competitive_Not Mine Mouth_Barge	25.59
CU	Colorado, Uinta	III3	III_Low-Cost Competitive_Not Mine Mouth_Barge	27.84
IL	Illinois	III3	III_Low-Cost Competitive_Not Mine Mouth_Barge	8.51
IN	Indiana	III3	III_Low-Cost Competitive_Not Mine Mouth_Barge	4.58
KE	Kentucky East	III3	III_Low-Cost Competitive_Not Mine Mouth_Barge	10.05
KW	Kentucky West	III3	III_Low-Cost Competitive_Not Mine Mouth_Barge	5.23
WL	Wyoming, Powder River Basin (8400)	III3	III_Low-Cost Competitive_Not Mine Mouth_Barge	17.75
CG	Colorado, Green River	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	27.54
CU	Colorado, Uinta	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	29.79
MP	Montana, Powder River	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	13.73
WL	Wyoming, Powder River Basin (8400)	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	17.88
WS	West Virginia, South	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	19.63
CG	Colorado, Green River	MNR2	MNRL_Low-Cost Competitive_Not Mine Mouth_Barge	24.72
CU	Colorado, Uinta	MNR2	MNRL_Low-Cost Competitive_Not Mine Mouth_Barge	26.97
WL	Wyoming, Powder River Basin (8400)	MNR2	MNRL_Low-Cost Competitive_Not Mine Mouth_Barge	15.06
KE	Kentucky East	NAI3	NAIN_Low-Cost Competitive_Not Mine Mouth_Barge	9.71
OH	Ohio	NAI3	NAIN_Low-Cost Competitive_Not Mine Mouth_Barge	3.08
PW	Pennsylvania, West	NAI3	NAIN_Low-Cost Competitive_Not Mine Mouth_Barge	8.05
VA	Virginia	NAI3	NAIN_Low-Cost Competitive_Not Mine Mouth_Barge	11.29
WN	West Virginia, North	NAI3	NAIN_Low-Cost Competitive_Not Mine Mouth_Barge	5.12
WL	Wyoming, Powder River Basin (8400)	NAI3	NAIN_Low-Cost Competitive_Not Mine Mouth_Barge	23.50
WS	West Virginia, South	NAI3	NAIN_Low-Cost Competitive_Not Mine Mouth_Barge	9.48
KE	Kentucky East	NE2	NE_Low-Cost Competitive_Not Mine Mouth_Barge	23.88

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
OH	Ohio	NE2	NE_Low-Cost Competitive_Not Mine Mouth_Barge	27.15
PW	Pennsylvania, West	NE2	NE_Low-Cost Competitive_Not Mine Mouth_Barge	26.70
VA	Virginia	NE2	NE_Low-Cost Competitive_Not Mine Mouth_Barge	24.13
WS	West Virginia, South	NE2	NE_Low-Cost Competitive_Not Mine Mouth_Barge	18.58
CG	Colorado, Green River	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	25.00
CU	Colorado, Uinta	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	27.25
IL	Illinois	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	13.92
IN	Indiana	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	15.36
KE	Kentucky East	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	17.02
KW	Kentucky West	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	13.92
MP	Montana, Powder River	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	16.87
OH	Ohio	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	14.39
PW	Pennsylvania, West	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	16.88
VA	Virginia	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	21.87
WL	Wyoming, Powder River Basin (8400)	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	15.64
WS	West Virginia, South	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	20.66
CG	Colorado, Green River	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	31.15
CU	Colorado, Uinta	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	33.40
IL	Illinois	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	14.07
IN	Indiana	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	10.14
KE	Kentucky East	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	9.52
KW	Kentucky West	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	10.65
OH	Ohio	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	2.88
PW	Pennsylvania, West	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	8.25
VA	Virginia	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	11.09
WN	West Virginia, North	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	4.92
WL	Wyoming, Powder River Basin (8400)	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	23.31
WS	West Virginia, South	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	9.29
KE	Kentucky East	ORP3	ORPB_Low-Cost Competitive_Not Mine Mouth_Barge	8.78
OH	Ohio	ORP3	ORPB_Low-Cost Competitive_Not Mine Mouth_Barge	3.24
PW	Pennsylvania, West	ORP3	ORPB_Low-Cost Competitive_Not Mine Mouth_Barge	8.98
WN	West Virginia, North	ORP3	ORPB_Low-Cost Competitive_Not Mine Mouth_Barge	5.54
WL	Wyoming, Powder River Basin (8400)	ORP3	ORPB_Low-Cost Competitive_Not Mine Mouth_Barge	22.58
WS	West Virginia, South	ORP3	ORPB_Low-Cost Competitive_Not Mine Mouth_Barge	8.55
KE	Kentucky East	PC3	PC_Low-Cost Competitive_Not Mine Mouth_Barge	10.05
OH	Ohio	PC3	PC_Low-Cost Competitive_Not Mine Mouth_Barge	3.41
PW	Pennsylvania, West	PC3	PC_Low-Cost Competitive_Not Mine Mouth_Barge	7.72
WN	West Virginia, North	PC3	PC_Low-Cost Competitive_Not Mine Mouth_Barge	5.45
WS	West Virginia, South	PC3	PC_Low-Cost Competitive_Not Mine Mouth_Barge	9.81
CG	Colorado, Green River	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	25.67
CU	Colorado, Uinta	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	27.92
IL	Illinois	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	8.10
IN	Indiana	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	5.84
KE	Kentucky East	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	11.86
KW	Kentucky West	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	7.04
PW	Pennsylvania, West	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	15.62
WN	West Virginia, North	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	12.18
WL	Wyoming, Powder River Basin (8400)	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	17.83
WS	West Virginia, South	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	13.06
IL	Illinois	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	23.19
IN	Indiana	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	23.68
KE	Kentucky East	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	16.13
KE	Kentucky East	MNR2	MNRL_Low-Cost Competitive_Not Mine Mouth_Barge	32.95
KW	Kentucky West	NE2	NE_Low-Cost Competitive_Not Mine Mouth_Barge	35.29
KW	Kentucky West	ORP3	ORPB_Low-Cost Competitive_Not Mine Mouth_Barge	9.92
OH	Ohio	EIM2	EIMR_Low-Cost Competitive_Not Mine Mouth_Barge	15.17
OH	Ohio	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	13.31
PW	Pennsylvania, West	EIM2	EIMR_Low-Cost Competitive_Not Mine Mouth_Barge	18.86
PW	Pennsylvania, West	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	10.26
WN	West Virginia, North	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	13.22
WN	West Virginia, North	NE2	NE_Low-Cost Competitive_Not Mine Mouth_Barge	20.61
WS	West Virginia, South	MNR2	MNRL_Low-Cost Competitive_Not Mine Mouth_Barge	33.49
WH	Wyoming, Powder River Basin (8800)	ALR2	ALRL_Low-Cost Competitive_Not Mine Mouth_Barge	23.71
WH	Wyoming, Powder River Basin (8800)	EIM2	EIMR_Low-Cost Competitive_Not Mine Mouth_Barge	16.15
WH	Wyoming, Powder River Basin (8800)	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	22.68
WH	Wyoming, Powder River Basin (8800)	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	24.51
WH	Wyoming, Powder River Basin (8800)	IBB3	IBBG_Low-Cost Competitive_Not Mine Mouth_Barge	19.49
WH	Wyoming, Powder River Basin (8800)	III3	III_Low-Cost Competitive_Not Mine Mouth_Barge	18.03
WH	Wyoming, Powder River Basin (8800)	MIB2	MIBG_Low-Cost Competitive_Not Mine Mouth_Barge	18.17
WH	Wyoming, Powder River Basin (8800)	MNR2	MNRL_Low-Cost Competitive_Not Mine Mouth_Barge	15.34
WH	Wyoming, Powder River Basin (8800)	NAI3	NAIN_Low-Cost Competitive_Not Mine Mouth_Barge	23.79
WH	Wyoming, Powder River Basin (8800)	NII2	NIIR_Low-Cost Competitive_Not Mine Mouth_Barge	15.93
WH	Wyoming, Powder River Basin (8800)	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	23.59
WH	Wyoming, Powder River Basin (8800)	ORP3	ORPB_Low-Cost Competitive_Not Mine Mouth_Barge	22.86
WH	Wyoming, Powder River Basin (8800)	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	18.11
CG	Colorado, Green River	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	31.99
CU	Colorado, Uinta	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	34.24
IL	Illinois	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	21.95
IN	Indiana	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	18.66
KE	Kentucky East	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	14.21
KW	Kentucky West	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	12.77
PW	Pennsylvania, West	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	27.47
WN	West Virginia, North	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	25.30

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
WL	Wyoming, Powder River Basin (8400)	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	26.34
WS	West Virginia, South	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	23.02
CG	Colorado, Green River	AMN2	AMNR_Low-Cost Competitive_Not Mine Mouth_Rail	22.12
CU	Colorado, Uinta	AMN2	AMNR_Low-Cost Competitive_Not Mine Mouth_Rail	24.20
WL	Wyoming, Powder River Basin (8400)	AMN2	AMNR_Low-Cost Competitive_Not Mine Mouth_Rail	14.14
KE	Kentucky East	CAI2	CAIN_Low-Cost Competitive_Not Mine Mouth_Rail	3.23
MD	Maryland	CAI2	CAIN_Low-Cost Competitive_Not Mine Mouth_Rail	18.14
OH	Ohio	CAI2	CAIN_Low-Cost Competitive_Not Mine Mouth_Rail	7.92
PW	Pennsylvania, West	CAI2	CAIN_Low-Cost Competitive_Not Mine Mouth_Rail	14.77
TN	Tennessee	CAI2	CAIN_Low-Cost Competitive_Not Mine Mouth_Rail	5.83
VA	Virginia	CAI2	CAIN_Low-Cost Competitive_Not Mine Mouth_Rail	9.97
WN	West Virginia, North	CAI2	CAIN_Low-Cost Competitive_Not Mine Mouth_Rail	12.50
WS	West Virginia, South	CAI2	CAIN_Low-Cost Competitive_Not Mine Mouth_Rail	3.08
IL	Illinois	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	28.13
IN	Indiana	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	25.79
KE	Kentucky East	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	8.21
KW	Kentucky West	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	19.94
PW	Pennsylvania, West	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	22.37
TN	Tennessee	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	12.26
VA	Virginia	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	10.01
WN	West Virginia, North	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	16.63
WL	Wyoming, Powder River Basin (8400)	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	36.17
WS	West Virginia, South	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	14.60
CG	Colorado, Green River	EIM3	EIMR_Low-Cost Competitive_Not Mine Mouth_Rail	22.74
CU	Colorado, Uinta	EIM3	EIMR_Low-Cost Competitive_Not Mine Mouth_Rail	25.00
KW	Kentucky West	EIM3	EIMR_Low-Cost Competitive_Not Mine Mouth_Rail	12.25
MP	Montana, Powder River	EIM3	EIMR_Low-Cost Competitive_Not Mine Mouth_Rail	18.28
WL	Wyoming, Powder River Basin (8400)	EIM3	EIMR_Low-Cost Competitive_Not Mine Mouth_Rail	13.86
CG	Colorado, Green River	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	39.17
CU	Colorado, Uinta	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	41.43
IL	Illinois	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	33.26
IN	Indiana	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	29.48
KE	Kentucky East	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	22.10
KW	Kentucky West	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	27.49
PW	Pennsylvania, West	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	37.26
TN	Tennessee	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	19.13
VA	Virginia	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	19.79
WN	West Virginia, North	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	31.22
WL	Wyoming, Powder River Basin (8400)	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	36.99
WS	West Virginia, South	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	22.83
IL	Illinois	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	22.21
IN	Indiana	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	26.00
KE	Kentucky East	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	12.83
KW	Kentucky West	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	10.71
PW	Pennsylvania, West	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	29.55
TN	Tennessee	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	8.50
VA	Virginia	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	16.79
WN	West Virginia, North	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	28.23
WL	Wyoming, Powder River Basin (8400)	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	34.47
WS	West Virginia, South	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	26.20
CG	Colorado, Green River	GFR2	GFRL_Low-Cost Competitive_Not Mine Mouth_Rail	17.68
CU	Colorado, Uinta	GFR2	GFRL_Low-Cost Competitive_Not Mine Mouth_Rail	19.93
WL	Wyoming, Powder River Basin (8400)	GFR2	GFRL_Low-Cost Competitive_Not Mine Mouth_Rail	17.73
CG	Colorado, Green River	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	23.79
CU	Colorado, Uinta	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	26.04
IL	Illinois	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	5.37
IN	Indiana	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	1.59
KE	Kentucky East	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	9.53
KW	Kentucky West	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	1.75
OH	Ohio	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	12.59
PW	Pennsylvania, West	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	17.04
WN	West Virginia, North	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	16.67
WL	Wyoming, Powder River Basin (8400)	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	16.79
WS	West Virginia, South	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	13.58
CG	Colorado, Green River	III4	III_Low-Cost Competitive_Not Mine Mouth_Rail	23.42
CU	Colorado, Uinta	III4	III_Low-Cost Competitive_Not Mine Mouth_Rail	25.67
IL	Illinois	III4	III_Low-Cost Competitive_Not Mine Mouth_Rail	5.27
IN	Indiana	III4	III_Low-Cost Competitive_Not Mine Mouth_Rail	7.21
KE	Kentucky East	III4	III_Low-Cost Competitive_Not Mine Mouth_Rail	14.20
KW	Kentucky West	III4	III_Low-Cost Competitive_Not Mine Mouth_Rail	11.03
MP	Montana, Powder River	III4	III_Low-Cost Competitive_Not Mine Mouth_Rail	18.29
WL	Wyoming, Powder River Basin (8400)	III4	III_Low-Cost Competitive_Not Mine Mouth_Rail	17.06
WS	West Virginia, South	III4	III_Low-Cost Competitive_Not Mine Mouth_Rail	15.61
CG	Colorado, Green River	IMB2	IMBG_Low-Cost Competitive_Not Mine Mouth_Rail	21.93
CU	Colorado, Uinta	IMB2	IMBG_Low-Cost Competitive_Not Mine Mouth_Rail	24.18
IL	Illinois	IMB2	IMBG_Low-Cost Competitive_Not Mine Mouth_Rail	9.92
IN	Indiana	IMB2	IMBG_Low-Cost Competitive_Not Mine Mouth_Rail	19.56
KE	Kentucky East	IMB2	IMBG_Low-Cost Competitive_Not Mine Mouth_Rail	25.45
PW	Pennsylvania, West	IMB2	IMBG_Low-Cost Competitive_Not Mine Mouth_Rail	23.76
WN	West Virginia, North	IMB2	IMBG_Low-Cost Competitive_Not Mine Mouth_Rail	28.28
WL	Wyoming, Powder River Basin (8400)	IMB2	IMBG_Low-Cost Competitive_Not Mine Mouth_Rail	13.33
WS	West Virginia, South	IMB2	IMBG_Low-Cost Competitive_Not Mine Mouth_Rail	18.98
KE	Kentucky East	MAB1	MABG_Low-Cost Competitive_Not Mine Mouth_Rail	12.83

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
MD	Maryland	MAB1	MABG_Low-Cost Competitive_Not Mine Mouth_Rail	6.90
OH	Ohio	MAB1	MABG_Low-Cost Competitive_Not Mine Mouth_Rail	18.72
PW	Pennsylvania, West	MAB1	MABG_Low-Cost Competitive_Not Mine Mouth_Rail	10.39
TN	Tennessee	MAB1	MABG_Low-Cost Competitive_Not Mine Mouth_Rail	17.19
VA	Virginia	MAB1	MABG_Low-Cost Competitive_Not Mine Mouth_Rail	22.08
WN	West Virginia, North	MAB1	MABG_Low-Cost Competitive_Not Mine Mouth_Rail	9.06
WL	Wyoming, Powder River Basin (8400)	MAB1	MABG_Low-Cost Competitive_Not Mine Mouth_Rail	32.40
WS	West Virginia, South	MAB1	MABG_Low-Cost Competitive_Not Mine Mouth_Rail	10.94
KE	Kentucky East	MA_1	MARL_Low-Cost Competitive_Not Mine Mouth_Rail	17.95
MD	Maryland	MA_1	MARL_Low-Cost Competitive_Not Mine Mouth_Rail	7.29
OH	Ohio	MA_1	MARL_Low-Cost Competitive_Not Mine Mouth_Rail	19.11
PW	Pennsylvania, West	MA_1	MARL_Low-Cost Competitive_Not Mine Mouth_Rail	10.78
TN	Tennessee	MA_1	MARL_Low-Cost Competitive_Not Mine Mouth_Rail	16.08
VA	Virginia	MA_1	MARL_Low-Cost Competitive_Not Mine Mouth_Rail	22.47
WN	West Virginia, North	MA_1	MARL_Low-Cost Competitive_Not Mine Mouth_Rail	9.45
WL	Wyoming, Powder River Basin (8400)	MA_1	MARL_Low-Cost Competitive_Not Mine Mouth_Rail	32.53
WS	West Virginia, South	MA_1	MARL_Low-Cost Competitive_Not Mine Mouth_Rail	9.78
CG	Colorado, Green River	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	26.67
CU	Colorado, Uinta	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	28.92
MP	Montana, Powder River	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	19.73
WL	Wyoming, Powder River Basin (8400)	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	18.50
WS	West Virginia, South	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	18.39
CG	Colorado, Green River	MNR3	MNRL_Low-Cost Competitive_Not Mine Mouth_Rail	24.41
CU	Colorado, Uinta	MNR3	MNRL_Low-Cost Competitive_Not Mine Mouth_Rail	26.66
MP	Montana, Powder River	MNR3	MNRL_Low-Cost Competitive_Not Mine Mouth_Rail	7.79
WL	Wyoming, Powder River Basin (8400)	MNR3	MNRL_Low-Cost Competitive_Not Mine Mouth_Rail	11.19
CG	Colorado, Green River	MWR3	MWRL_Low-Cost Competitive_Not Mine Mouth_Rail	15.24
CU	Colorado, Uinta	MWR3	MWRL_Low-Cost Competitive_Not Mine Mouth_Rail	17.49
WL	Wyoming, Powder River Basin (8400)	MWR3	MWRL_Low-Cost Competitive_Not Mine Mouth_Rail	9.64
KE	Kentucky East	NAI4	NAIN_Low-Cost Competitive_Not Mine Mouth_Rail	5.90
MD	Maryland	NAI4	NAIN_Low-Cost Competitive_Not Mine Mouth_Rail	5.90
OH	Ohio	NAI4	NAIN_Low-Cost Competitive_Not Mine Mouth_Rail	9.17
PW	Pennsylvania, West	NAI4	NAIN_Low-Cost Competitive_Not Mine Mouth_Rail	6.22
TN	Tennessee	NAI4	NAIN_Low-Cost Competitive_Not Mine Mouth_Rail	16.99
WN	West Virginia, North	NAI4	NAIN_Low-Cost Competitive_Not Mine Mouth_Rail	3.24
WL	Wyoming, Powder River Basin (8400)	NAI4	NAIN_Low-Cost Competitive_Not Mine Mouth_Rail	26.78
WS	West Virginia, South	NAI4	NAIN_Low-Cost Competitive_Not Mine Mouth_Rail	7.01
KE	Kentucky East	NE3	NE_Low-Cost Competitive_Not Mine Mouth_Rail	24.63
OH	Ohio	NE3	NE_Low-Cost Competitive_Not Mine Mouth_Rail	21.24
PW	Pennsylvania, West	NE3	NE_Low-Cost Competitive_Not Mine Mouth_Rail	18.77
TN	Tennessee	NE3	NE_Low-Cost Competitive_Not Mine Mouth_Rail	32.67
VA	Virginia	NE3	NE_Low-Cost Competitive_Not Mine Mouth_Rail	29.16
WS	West Virginia, South	NE3	NE_Low-Cost Competitive_Not Mine Mouth_Rail	26.40
CG	Colorado, Green River	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	22.14
CU	Colorado, Uinta	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	24.17
IL	Illinois	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	10.34
IN	Indiana	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	12.28
KE	Kentucky East	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	15.39
KW	Kentucky West	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	10.18
MP	Montana, Powder River	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	13.79
OH	Ohio	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	10.81
PW	Pennsylvania, West	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	13.80
VA	Virginia	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	18.29
WN	West Virginia, North	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	17.65
WL	Wyoming, Powder River Basin (8400)	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	12.57
WS	West Virginia, South	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	17.08
CG	Colorado, Green River	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	29.76
CU	Colorado, Uinta	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	32.36
IL	Illinois	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	18.46
IN	Indiana	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	17.80
KE	Kentucky East	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	10.64
KW	Kentucky West	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	17.92
MD	Maryland	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	6.84
OH	Ohio	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	7.25
PW	Pennsylvania, West	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	3.37
TN	Tennessee	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	15.76
VA	Virginia	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	14.99
WN	West Virginia, North	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	6.32
WL	Wyoming, Powder River Basin (8400)	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	23.16
WS	West Virginia, South	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	13.78
KE	Kentucky East	NU2	NU_Low-Cost Competitive_Not Mine Mouth_Rail	20.44
OH	Ohio	NU2	NU_Low-Cost Competitive_Not Mine Mouth_Rail	16.33
PW	Pennsylvania, West	NU2	NU_Low-Cost Competitive_Not Mine Mouth_Rail	13.30
TN	Tennessee	NU2	NU_Low-Cost Competitive_Not Mine Mouth_Rail	24.63
VA	Virginia	NU2	NU_Low-Cost Competitive_Not Mine Mouth_Rail	18.43
WN	West Virginia, North	NU2	NU_Low-Cost Competitive_Not Mine Mouth_Rail	17.54
WL	Wyoming, Powder River Basin (8400)	NU2	NU_Low-Cost Competitive_Not Mine Mouth_Rail	29.78
WS	West Virginia, South	NU2	NU_Low-Cost Competitive_Not Mine Mouth_Rail	17.11
KE	Kentucky East	ORP4	ORPB_Low-Cost Competitive_Not Mine Mouth_Rail	7.71
MD	Maryland	ORP4	ORPB_Low-Cost Competitive_Not Mine Mouth_Rail	13.82
OH	Ohio	ORP4	ORPB_Low-Cost Competitive_Not Mine Mouth_Rail	0.00
PW	Pennsylvania, West	ORP4	ORPB_Low-Cost Competitive_Not Mine Mouth_Rail	10.35
TN	Tennessee	ORP4	ORPB_Low-Cost Competitive_Not Mine Mouth_Rail	12.61

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
WN	West Virginia, North	ORP4	ORPB_Low-Cost Competitive_Not Mine Mouth_Rail	11.76
WL	Wyoming, Powder River Basin (8400)	ORP4	ORPB_Low-Cost Competitive_Not Mine Mouth_Rail	32.84
WS	West Virginia, South	ORP4	ORPB_Low-Cost Competitive_Not Mine Mouth_Rail	12.16
KE	Kentucky East	PC4	PC_Low-Cost Competitive_Not Mine Mouth_Rail	15.25
MD	Maryland	PC4	PC_Low-Cost Competitive_Not Mine Mouth_Rail	4.59
OH	Ohio	PC4	PC_Low-Cost Competitive_Not Mine Mouth_Rail	16.41
PW	Pennsylvania, West	PC4	PC_Low-Cost Competitive_Not Mine Mouth_Rail	9.38
WN	West Virginia, North	PC4	PC_Low-Cost Competitive_Not Mine Mouth_Rail	6.75
WS	West Virginia, South	PC4	PC_Low-Cost Competitive_Not Mine Mouth_Rail	13.35
CG	Colorado, Green River	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	28.31
CU	Colorado, Uinta	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	30.56
IL	Illinois	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	13.57
IN	Indiana	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	9.79
KE	Kentucky East	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	14.24
KW	Kentucky West	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	7.79
WL	Wyoming, Powder River Basin (8400)	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	22.73
WS	West Virginia, South	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	18.72
CG	Colorado, Green River	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	25.05
CU	Colorado, Uinta	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	27.30
IL	Illinois	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	17.05
IN	Indiana	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	18.99
KE	Kentucky East	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	21.16
KW	Kentucky West	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	17.46
OH	Ohio	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	17.09
PW	Pennsylvania, West	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	19.58
VA	Virginia	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	24.57
WN	West Virginia, North	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	23.77
WL	Wyoming, Powder River Basin (8400)	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	17.81
WS	West Virginia, South	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	23.36
CG	Colorado, Green River	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	27.49
CU	Colorado, Uinta	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	29.74
IL	Illinois	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	17.27
IN	Indiana	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	19.21
KE	Kentucky East	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	11.72
KW	Kentucky West	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	16.98
MD	Maryland	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	14.74
OH	Ohio	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	9.87
PW	Pennsylvania, West	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	11.75
TN	Tennessee	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	17.01
VA	Virginia	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	17.39
WN	West Virginia, North	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	15.77
WL	Wyoming, Powder River Basin (8400)	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	19.58
WS	West Virginia, South	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	16.18
CG	Colorado, Green River	WON2	WONR_Low-Cost Competitive_Not Mine Mouth_Rail	17.99
CU	Colorado, Uinta	WON2	WONR_Low-Cost Competitive_Not Mine Mouth_Rail	15.52
WL	Wyoming, Powder River Basin (8400)	WON2	WONR_Low-Cost Competitive_Not Mine Mouth_Rail	18.76
KS	Kansas	MWR3	MWRL_Low-Cost Competitive_Not Mine Mouth_Rail	4.11
AL	Alabama	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	7.86
IL	Illinois	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	15.79
IN	Indiana	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	17.73
KE	Kentucky East	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	13.51
KE	Kentucky East	MNR3	MNRL_Low-Cost Competitive_Not Mine Mouth_Rail	34.08
KW	Kentucky West	NE3	NE_Low-Cost Competitive_Not Mine Mouth_Rail	34.15
KW	Kentucky West	ORP4	ORPB_Low-Cost Competitive_Not Mine Mouth_Rail	16.35
OH	Ohio	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	12.08
PW	Pennsylvania, West	EIM3	EIMR_Low-Cost Competitive_Not Mine Mouth_Rail	21.10
PW	Pennsylvania, West	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	13.96
TN	Tennessee	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	3.59
VA	Virginia	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	4.87
WN	West Virginia, North	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	17.56
WN	West Virginia, North	NE3	NE_Low-Cost Competitive_Not Mine Mouth_Rail	19.04
WS	West Virginia, South	MNR3	MNRL_Low-Cost Competitive_Not Mine Mouth_Rail	36.27
WH	Wyoming, Powder River Basin (8800)	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	27.06
WH	Wyoming, Powder River Basin (8800)	AMN2	AMNR_Low-Cost Competitive_Not Mine Mouth_Rail	16.89
WH	Wyoming, Powder River Basin (8800)	CAI2	CAIN_Low-Cost Competitive_Not Mine Mouth_Rail	21.55
WH	Wyoming, Powder River Basin (8800)	CAR2	CARL_Low-Cost Competitive_Not Mine Mouth_Rail	34.60
WH	Wyoming, Powder River Basin (8800)	EIM3	EIMR_Low-Cost Competitive_Not Mine Mouth_Rail	15.87
WH	Wyoming, Powder River Basin (8800)	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	37.27
WH	Wyoming, Powder River Basin (8800)	GAR1	GARL_Low-Cost Competitive_Not Mine Mouth_Rail	28.23
WH	Wyoming, Powder River Basin (8800)	GFR2	GFRL_Low-Cost Competitive_Not Mine Mouth_Rail	15.80
WH	Wyoming, Powder River Basin (8800)	IBB4	IBBG_Low-Cost Competitive_Not Mine Mouth_Rail	17.08
WH	Wyoming, Powder River Basin (8800)	III4	III_Low-Cost Competitive_Not Mine Mouth_Rail	17.35
WH	Wyoming, Powder River Basin (8800)	IMB2	IMBG_Low-Cost Competitive_Not Mine Mouth_Rail	13.61
WH	Wyoming, Powder River Basin (8800)	MAB1	MABG_Low-Cost Competitive_Not Mine Mouth_Rail	32.69
WH	Wyoming, Powder River Basin (8800)	MA_1	MARL_Low-Cost Competitive_Not Mine Mouth_Rail	32.81
WH	Wyoming, Powder River Basin (8800)	MIB3	MIBG_Low-Cost Competitive_Not Mine Mouth_Rail	18.66
WH	Wyoming, Powder River Basin (8800)	MNR3	MNRL_Low-Cost Competitive_Not Mine Mouth_Rail	11.52
WH	Wyoming, Powder River Basin (8800)	MWR3	MWRL_Low-Cost Competitive_Not Mine Mouth_Rail	9.92
WH	Wyoming, Powder River Basin (8800)	NAI4	NAIN_Low-Cost Competitive_Not Mine Mouth_Rail	27.06
WH	Wyoming, Powder River Basin (8800)	NII3	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	12.98
WH	Wyoming, Powder River Basin (8800)	NOR4	NORL_Low-Cost Competitive_Not Mine Mouth_Rail	22.84
WH	Wyoming, Powder River Basin (8800)	NU2	NU_Low-Cost Competitive_Not Mine Mouth_Rail	30.06
WH	Wyoming, Powder River Basin (8800)	ORP4	ORPB_Low-Cost Competitive_Not Mine Mouth_Rail	23.36

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
WH	Wyoming, Powder River Basin (8800)	TKI1	TKIN_Low-Cost Competitive_Not Mine Mouth_Rail	23.02
WH	Wyoming, Powder River Basin (8800)	WIR2	WIRL_Low-Cost Competitive_Not Mine Mouth_Rail	18.09
WH	Wyoming, Powder River Basin (8800)	WOM1	WOMR_Low-Cost Competitive_Not Mine Mouth_Rail	19.73
WH	Wyoming, Powder River Basin (8800)	WON2	WONR_Low-Cost Competitive_Not Mine Mouth_Rail	18.19
NS	New Mexico, San Juan	AMM5	AMMM_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	37.60
KE	Kentucky East	CAI3	CAIN_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	18.32
CG	Colorado, Green River	CC2	CC_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	18.99
CU	Colorado, Uinta	CC2	CC_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	10.48
CG	Colorado, Green River	EIM4	EIMR_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	27.41
CU	Colorado, Uinta	EIM4	EIMR_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	29.66
IL	Illinois	EIM4	EIMR_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	22.98
IN	Indiana	EIM4	EIMR_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	26.26
WL	Wyoming, Powder River Basin (8400)	EIM4	EIMR_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	19.49
IL	Illinois	III5	III_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	12.95
IN	Indiana	III5	III_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	17.35
KE	Kentucky East	III5	III_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	22.35
KW	Kentucky West	III5	III_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	16.13
PW	Pennsylvania, West	III5	III_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	23.47
WL	Wyoming, Powder River Basin (8400)	III5	III_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	28.15
WS	West Virginia, South	III5	III_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	24.12
CG	Colorado, Green River	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	25.49
CU	Colorado, Uinta	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	27.74
IL	Illinois	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	40.00
IN	Indiana	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	52.71
KW	Kentucky West	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	25.04
WL	Wyoming, Powder River Basin (8400)	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	18.46
MD	Maryland	MA_2	MARL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	3.04
PW	Pennsylvania, West	MA_2	MARL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	10.62
WN	West Virginia, North	MA_2	MARL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	14.49
PW	Pennsylvania, West	NAI5	NAIN_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	0.00
WN	West Virginia, North	NAI5	NAIN_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	0.00
WS	West Virginia, South	NAI5	NAIN_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	0.00
KE	Kentucky East	NOR5	NORL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	43.78
KW	Kentucky West	NOR5	NORL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	90.90
OH	Ohio	NOR5	NORL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	16.46
PW	Pennsylvania, West	NOR5	NORL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	29.50
WN	West Virginia, North	NOR5	NORL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	31.85
WS	West Virginia, South	NOR5	NORL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	34.22
MD	Maryland	ORP5	ORPB_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	3.04
PC	Pennsylvania, Central	PC5	PC_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	4.11
PC	Pennsylvania, Central	PE2	PE_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	19.09
PW	Pennsylvania, West	PE2	PE_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	27.23
OH	Ohio	MIB4	MIBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	38.51
PW	Pennsylvania, West	MIB4	MIBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	44.82
WN	West Virginia, North	MIB4	MIBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	52.97
WS	West Virginia, South	MNR4	MNRL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	46.67
WH	Wyoming, Powder River Basin (8800)	EIM4	EIMR_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	19.78
WH	Wyoming, Powder River Basin (8800)	III5	III_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	23.52
WH	Wyoming, Powder River Basin (8800)	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	19.32
WL	Wyoming, Powder River Basin (8400)	WYG4	WYGR_Non-Competitive_Mine Mouth_Rail	13.24
IN	Indiana	III6	III_Non-Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
CG	Colorado, Green River	AMN3	AMNR_Non-Competitive_Not Mine Mouth_Rail	15.48
CU	Colorado, Uinta	AMN3	AMNR_Non-Competitive_Not Mine Mouth_Rail	17.74
MP	Montana, Powder River	AMN3	AMNR_Non-Competitive_Not Mine Mouth_Rail	24.55
WL	Wyoming, Powder River Basin (8400)	AMN3	AMNR_Non-Competitive_Not Mine Mouth_Rail	18.22
IL	Illinois	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	30.35
IN	Indiana	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	26.14
KE	Kentucky East	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	17.41
KW	Kentucky West	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	23.80
PW	Pennsylvania, West	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	20.97
TN	Tennessee	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	20.40
VA	Virginia	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	14.28
WN	West Virginia, North	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	19.64
WL	Wyoming, Powder River Basin (8400)	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	31.79
WS	West Virginia, South	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	23.95
CG	Colorado, Green River	CC3	CC_Non-Competitive_Not Mine Mouth_Rail	9.46
CU	Colorado, Uinta	CC3	CC_Non-Competitive_Not Mine Mouth_Rail	6.23
WL	Wyoming, Powder River Basin (8400)	CC3	CC_Non-Competitive_Not Mine Mouth_Rail	8.00
CG	Colorado, Green River	CU4	CU_Non-Competitive_Not Mine Mouth_Rail	9.62
CU	Colorado, Uinta	CU4	CU_Non-Competitive_Not Mine Mouth_Rail	3.75
MP	Montana, Powder River	CU4	CU_Non-Competitive_Not Mine Mouth_Rail	18.64
UT	Utah	CU4	CU_Non-Competitive_Not Mine Mouth_Rail	6.45
WL	Wyoming, Powder River Basin (8400)	CU4	CU_Non-Competitive_Not Mine Mouth_Rail	12.31
CG	Colorado, Green River	DAL4	DALG_Non-Competitive_Not Mine Mouth_Rail	24.29
CU	Colorado, Uinta	DAL4	DALG_Non-Competitive_Not Mine Mouth_Rail	26.54
MP	Montana, Powder River	DAL4	DALG_Non-Competitive_Not Mine Mouth_Rail	5.99
WL	Wyoming, Powder River Basin (8400)	DAL4	DALG_Non-Competitive_Not Mine Mouth_Rail	11.02
CG	Colorado, Green River	EIM5	EIMR_Non-Competitive_Not Mine Mouth_Rail	21.65
CU	Colorado, Uinta	EIM5	EIMR_Non-Competitive_Not Mine Mouth_Rail	23.90
IN	Indiana	EIM5	EIMR_Non-Competitive_Not Mine Mouth_Rail	16.45
KW	Kentucky West	EIM5	EIMR_Non-Competitive_Not Mine Mouth_Rail	20.72
WL	Wyoming, Powder River Basin (8400)	EIM5	EIMR_Non-Competitive_Not Mine Mouth_Rail	14.12
IL	Illinois	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	23.22

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
IN	Indiana	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	19.36
KE	Kentucky East	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	21.72
KW	Kentucky West	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	24.59
PW	Pennsylvania, West	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	24.54
TN	Tennessee	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	13.63
VA	Virginia	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	20.23
WN	West Virginia, North	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	24.66
WL	Wyoming, Powder River Basin (8400)	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	24.87
WS	West Virginia, South	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	19.30
CG	Colorado, Green River	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	33.60
CU	Colorado, Uinta	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	35.85
IL	Illinois	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	24.80
IN	Indiana	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	42.48
KE	Kentucky East	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	22.76
KW	Kentucky West	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	26.14
PW	Pennsylvania, West	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	38.80
WN	West Virginia, North	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	42.98
WL	Wyoming, Powder River Basin (8400)	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	25.51
WS	West Virginia, South	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	27.45
CG	Colorado, Green River	GFR3	GFRL_Non-Competitive_Not Mine Mouth_Rail	21.54
CU	Colorado, Uinta	GFR3	GFRL_Non-Competitive_Not Mine Mouth_Rail	23.79
WL	Wyoming, Powder River Basin (8400)	GFR3	GFRL_Non-Competitive_Not Mine Mouth_Rail	23.70
CG	Colorado, Green River	III7	III_Non-Competitive_Not Mine Mouth_Rail	22.93
CU	Colorado, Uinta	III7	III_Non-Competitive_Not Mine Mouth_Rail	25.55
IL	Illinois	III7	III_Non-Competitive_Not Mine Mouth_Rail	4.38
IN	Indiana	III7	III_Non-Competitive_Not Mine Mouth_Rail	9.77
KE	Kentucky East	III7	III_Non-Competitive_Not Mine Mouth_Rail	16.99
KW	Kentucky West	III7	III_Non-Competitive_Not Mine Mouth_Rail	8.71
PW	Pennsylvania, West	III7	III_Non-Competitive_Not Mine Mouth_Rail	21.34
WL	Wyoming, Powder River Basin (8400)	III7	III_Non-Competitive_Not Mine Mouth_Rail	19.75
WS	West Virginia, South	III7	III_Non-Competitive_Not Mine Mouth_Rail	22.22
CG	Colorado, Green River	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	21.65
CU	Colorado, Uinta	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	23.90
IL	Illinois	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	12.59
IN	Indiana	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	16.45
KE	Kentucky East	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	23.69
KW	Kentucky West	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	20.72
PW	Pennsylvania, West	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	23.77
WN	West Virginia, North	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	28.67
WL	Wyoming, Powder River Basin (8400)	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	14.12
WS	West Virginia, South	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	18.98
KE	Kentucky East	MA_3	MARL_Non-Competitive_Not Mine Mouth_Rail	22.08
MD	Maryland	MA_3	MARL_Non-Competitive_Not Mine Mouth_Rail	11.84
OH	Ohio	MA_3	MARL_Non-Competitive_Not Mine Mouth_Rail	23.66
PW	Pennsylvania, West	MA_3	MARL_Non-Competitive_Not Mine Mouth_Rail	19.23
TN	Tennessee	MA_3	MARL_Non-Competitive_Not Mine Mouth_Rail	20.61
VA	Virginia	MA_3	MARL_Non-Competitive_Not Mine Mouth_Rail	20.76
WN	West Virginia, North	MA_3	MARL_Non-Competitive_Not Mine Mouth_Rail	16.42
WL	Wyoming, Powder River Basin (8400)	MA_3	MARL_Non-Competitive_Not Mine Mouth_Rail	31.09
WS	West Virginia, South	MA_3	MARL_Non-Competitive_Not Mine Mouth_Rail	19.59
CG	Colorado, Green River	MNR5	MNRL_Non-Competitive_Not Mine Mouth_Rail	18.85
CU	Colorado, Uinta	MNR5	MNRL_Non-Competitive_Not Mine Mouth_Rail	21.10
IL	Illinois	MNR5	MNRL_Non-Competitive_Not Mine Mouth_Rail	24.11
MP	Montana, Powder River	MNR5	MNRL_Non-Competitive_Not Mine Mouth_Rail	11.85
WL	Wyoming, Powder River Basin (8400)	MNR5	MNRL_Non-Competitive_Not Mine Mouth_Rail	15.76
CG	Colorado, Green River	MWR5	MWRL_Non-Competitive_Not Mine Mouth_Rail	15.24
CU	Colorado, Uinta	MWR5	MWRL_Non-Competitive_Not Mine Mouth_Rail	17.49
MP	Montana, Powder River	MWR5	MWRL_Non-Competitive_Not Mine Mouth_Rail	14.61
WL	Wyoming, Powder River Basin (8400)	MWR5	MWRL_Non-Competitive_Not Mine Mouth_Rail	14.28
KE	Kentucky East	NAI6	NAIN_Non-Competitive_Not Mine Mouth_Rail	12.52
MD	Maryland	NAI6	NAIN_Non-Competitive_Not Mine Mouth_Rail	12.51
OH	Ohio	NAI6	NAIN_Non-Competitive_Not Mine Mouth_Rail	19.44
PW	Pennsylvania, West	NAI6	NAIN_Non-Competitive_Not Mine Mouth_Rail	13.19
TN	Tennessee	NAI6	NAIN_Non-Competitive_Not Mine Mouth_Rail	22.65
WN	West Virginia, North	NAI6	NAIN_Non-Competitive_Not Mine Mouth_Rail	6.88
WL	Wyoming, Powder River Basin (8400)	NAI6	NAIN_Non-Competitive_Not Mine Mouth_Rail	26.78
WS	West Virginia, South	NAI6	NAIN_Non-Competitive_Not Mine Mouth_Rail	14.85
CG	Colorado, Green River	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	27.91
CU	Colorado, Uinta	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	30.16
IL	Illinois	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	15.66
IN	Indiana	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	10.67
KE	Kentucky East	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	16.41
KW	Kentucky West	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	15.90
MD	Maryland	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	23.08
OH	Ohio	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	9.23
PW	Pennsylvania, West	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	15.23
TN	Tennessee	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	17.51
VA	Virginia	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	16.09
WN	West Virginia, North	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	17.44
WL	Wyoming, Powder River Basin (8400)	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	21.27
WS	West Virginia, South	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	14.44
KE	Kentucky East	PC6	PC_Non-Competitive_Not Mine Mouth_Rail	22.92
MD	Maryland	PC6	PC_Non-Competitive_Not Mine Mouth_Rail	16.27

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
OH	Ohio	PC6	PC_Non-Competitive_Not Mine Mouth_Rail	18.87
PW	Pennsylvania, West	PC6	PC_Non-Competitive_Not Mine Mouth_Rail	21.14
WN	West Virginia, North	PC6	PC_Non-Competitive_Not Mine Mouth_Rail	20.85
WS	West Virginia, South	PC6	PC_Non-Competitive_Not Mine Mouth_Rail	19.31
KE	Kentucky East	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	18.28
MD	Maryland	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	16.17
OH	Ohio	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	19.45
PW	Pennsylvania, West	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	15.57
TN	Tennessee	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	18.90
VA	Virginia	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	23.51
WN	West Virginia, North	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	20.75
WL	Wyoming, Powder River Basin (8400)	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	32.83
WS	West Virginia, South	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	20.90
CG	Colorado, Green River	PRB4	PRB_Non-Competitive_Not Mine Mouth_Rail	10.46
CU	Colorado, Uinta	PRB4	PRB_Non-Competitive_Not Mine Mouth_Rail	12.71
WL	Wyoming, Powder River Basin (8400)	PRB4	PRB_Non-Competitive_Not Mine Mouth_Rail	8.39
CG	Colorado, Green River	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	30.70
CU	Colorado, Uinta	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	32.95
IL	Illinois	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	17.23
IN	Indiana	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	18.27
KE	Kentucky East	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	9.98
KW	Kentucky West	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	17.70
WL	Wyoming, Powder River Basin (8400)	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	28.43
WS	West Virginia, South	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	20.96
CG	Colorado, Green River	TXL5	TXLG_Non-Competitive_Not Mine Mouth_Rail	19.79
CU	Colorado, Uinta	TXL5	TXLG_Non-Competitive_Not Mine Mouth_Rail	22.04
MP	Montana, Powder River	TXL5	TXLG_Non-Competitive_Not Mine Mouth_Rail	34.08
WL	Wyoming, Powder River Basin (8400)	TXL5	TXLG_Non-Competitive_Not Mine Mouth_Rail	26.74
KE	Kentucky East	VEP2	VEPR_Non-Competitive_Not Mine Mouth_Rail	21.62
MD	Maryland	VEP2	VEPR_Non-Competitive_Not Mine Mouth_Rail	15.93
OH	Ohio	VEP2	VEPR_Non-Competitive_Not Mine Mouth_Rail	19.16
PW	Pennsylvania, West	VEP2	VEPR_Non-Competitive_Not Mine Mouth_Rail	14.96
TN	Tennessee	VEP2	VEPR_Non-Competitive_Not Mine Mouth_Rail	21.71
VA	Virginia	VEP2	VEPR_Non-Competitive_Not Mine Mouth_Rail	20.46
WN	West Virginia, North	VEP2	VEPR_Non-Competitive_Not Mine Mouth_Rail	20.51
WL	Wyoming, Powder River Basin (8400)	VEP2	VEPR_Non-Competitive_Not Mine Mouth_Rail	32.71
WS	West Virginia, South	VEP2	VEPR_Non-Competitive_Not Mine Mouth_Rail	14.40
CG	Colorado, Green River	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	26.13
CU	Colorado, Uinta	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	28.38
IL	Illinois	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	15.87
IN	Indiana	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	19.56
KE	Kentucky East	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	22.85
KW	Kentucky West	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	22.54
OH	Ohio	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	22.46
PW	Pennsylvania, West	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	19.34
VA	Virginia	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	24.33
WN	West Virginia, North	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	25.45
WL	Wyoming, Powder River Basin (8400)	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	20.80
WS	West Virginia, South	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	23.12
CG	Colorado, Green River	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	27.49
CU	Colorado, Uinta	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	29.74
IL	Illinois	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	20.25
IN	Indiana	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	22.52
KE	Kentucky East	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	15.93
KW	Kentucky West	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	19.91
MD	Maryland	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	20.04
OH	Ohio	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	20.92
PW	Pennsylvania, West	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	15.98
TN	Tennessee	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	23.13
VA	Virginia	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	23.65
WN	West Virginia, North	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	21.44
WL	Wyoming, Powder River Basin (8400)	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	19.58
WS	West Virginia, South	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	22.00
CG	Colorado, Green River	WON3	WONR_Non-Competitive_Not Mine Mouth_Rail	22.64
CU	Colorado, Uinta	WON3	WONR_Non-Competitive_Not Mine Mouth_Rail	20.16
MP	Montana, Powder River	WON3	WONR_Non-Competitive_Not Mine Mouth_Rail	16.44
WA	Washington	WON3	WONR_Non-Competitive_Not Mine Mouth_Rail	0.94
WL	Wyoming, Powder River Basin (8400)	WON3	WONR_Non-Competitive_Not Mine Mouth_Rail	18.78
CG	Colorado, Green River	NNR1	NNRL_Non-Competitive_Not Mine Mouth_Rail	13.17
CU	Colorado, Uinta	NNR1	NNRL_Non-Competitive_Not Mine Mouth_Rail	10.70
UT	Utah	NNR1	NNRL_Non-Competitive_Not Mine Mouth_Rail	6.41
WL	Wyoming, Powder River Basin (8400)	NNR1	NNRL_Non-Competitive_Not Mine Mouth_Rail	21.43
CG	Colorado, Green River	SNR1	SNRL_Non-Competitive_Not Mine Mouth_Rail	14.18
CU	Colorado, Uinta	SNR1	SNRL_Non-Competitive_Not Mine Mouth_Rail	11.71
UT	Utah	SNR1	SNRL_Non-Competitive_Not Mine Mouth_Rail	7.41
WL	Wyoming, Powder River Basin (8400)	SNR1	SNRL_Non-Competitive_Not Mine Mouth_Rail	23.48
AL	Alabama	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	10.56
KE	Kentucky East	MNR5	MNRL_Non-Competitive_Not Mine Mouth_Rail	30.08
MP	Montana, Powder River	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	37.53
OH	Ohio	EIM5	EIMR_Non-Competitive_Not Mine Mouth_Rail	21.01
TN	Tennessee	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	1.43
VA	Virginia	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	12.98
WS	West Virginia, South	MNR5	MNRL_Non-Competitive_Not Mine Mouth_Rail	32.26

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
WH	Wyoming, Powder River Basin (8800)	AMN3	AMNR_Non-Competitive_Not Mine Mouth_Rail	17.38
WH	Wyoming, Powder River Basin (8800)	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	32.07
WH	Wyoming, Powder River Basin (8800)	CC3	CC_Non-Competitive_Not Mine Mouth_Rail	7.16
WH	Wyoming, Powder River Basin (8800)	CU4	CU_Non-Competitive_Not Mine Mouth_Rail	11.47
WH	Wyoming, Powder River Basin (8800)	DAL4	DALG_Non-Competitive_Not Mine Mouth_Rail	11.51
WH	Wyoming, Powder River Basin (8800)	EIM5	EIMR_Non-Competitive_Not Mine Mouth_Rail	14.54
WH	Wyoming, Powder River Basin (8800)	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	25.82
WH	Wyoming, Powder River Basin (8800)	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	26.46
WH	Wyoming, Powder River Basin (8800)	GFR3	GFRL_Non-Competitive_Not Mine Mouth_Rail	24.12
WH	Wyoming, Powder River Basin (8800)	III7	III_Non-Competitive_Not Mine Mouth_Rail	20.17
WH	Wyoming, Powder River Basin (8800)	IMB4	IMBG_Non-Competitive_Not Mine Mouth_Rail	14.54
WH	Wyoming, Powder River Basin (8800)	MA_3	MARL_Non-Competitive_Not Mine Mouth_Rail	31.37
WH	Wyoming, Powder River Basin (8800)	MNR5	MNRL_Non-Competitive_Not Mine Mouth_Rail	16.18
WH	Wyoming, Powder River Basin (8800)	MWR5	MWRL_Non-Competitive_Not Mine Mouth_Rail	14.70
WH	Wyoming, Powder River Basin (8800)	NAI6	NAIN_Non-Competitive_Not Mine Mouth_Rail	27.06
WH	Wyoming, Powder River Basin (8800)	NOR6	NORL_Non-Competitive_Not Mine Mouth_Rail	21.55
WH	Wyoming, Powder River Basin (8800)	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	32.96
WH	Wyoming, Powder River Basin (8800)	PRB4	PRB_Non-Competitive_Not Mine Mouth_Rail	6.35
WH	Wyoming, Powder River Basin (8800)	TKI2	TKIN_Non-Competitive_Not Mine Mouth_Rail	25.34
WH	Wyoming, Powder River Basin (8800)	TXL5	TXLG_Non-Competitive_Not Mine Mouth_Rail	24.51
WH	Wyoming, Powder River Basin (8800)	VEP2	VEPR_Non-Competitive_Not Mine Mouth_Rail	33.00
WH	Wyoming, Powder River Basin (8800)	WIR4	WIRL_Non-Competitive_Not Mine Mouth_Rail	21.09
WH	Wyoming, Powder River Basin (8800)	WOM2	WOMR_Non-Competitive_Not Mine Mouth_Rail	19.73
WH	Wyoming, Powder River Basin (8800)	WON3	WONR_Non-Competitive_Not Mine Mouth_Rail	24.90
WH	Wyoming, Powder River Basin (8800)	NNR1	NNRL_Non-Competitive_Not Mine Mouth_Rail	20.59
WH	Wyoming, Powder River Basin (8800)	SNR1	SNRL_Non-Competitive_Not Mine Mouth_Rail	19.95
MD	Maryland	PC3	PC_Low-Cost Competitive_Not Mine Mouth_Barge	8.11
TN	Tennessee	ORP3	ORPB_Low-Cost Competitive_Not Mine Mouth_Barge	13.03
MD	Maryland	ORP3	ORPB_Low-Cost Competitive_Not Mine Mouth_Barge	9.23
TN	Tennessee	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	18.87
VA	Virginia	MA_2	MARL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	49.96
KE	Kentucky East	MA_2	MARL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	44.70
WS	West Virginia, South	MA_2	MARL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	36.10
OH	Ohio	MA_2	MARL_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	26.35
ND	North Dakota	DAL4	DALG_Non-Competitive_Not Mine Mouth_Rail	1.25
KE	Kentucky East	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	28.41
WS	West Virginia, South	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	18.98
WN	West Virginia, North	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	33.63
PW	Pennsylvania, West	IMB3	IMBG_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	32.35
WN	West Virginia, North	CAI3	CAIN_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	21.74
NS	New Mexico, San Juan	AMM2	AMMM_High-Cost Competitive_Not Mine Mouth_Rail	14.29
NS	New Mexico, San Juan	AMN3	AMNR_Non-Competitive_Not Mine Mouth_Rail	14.29
KE	Kentucky East	PC2	PC_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	48.19
WS	West Virginia, South	PC2	PC_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	39.60
TN	Tennessee	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	8.91
AL	Alabama	TAB3	TABG_Low-Cost Competitive_Not Mine Mouth_Barge	7.73
MO	Missouri	MWR2	MWRL_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	5.34
IN	Indiana	MWR2	MWRL_High-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	25.24
AZ	Arizona	SNR1	SNRL_Non-Competitive_Not Mine Mouth_Rail	5.54
MP	Montana, Powder River	PRB3	PRB_Low-Cost Competitive_Not Mine Mouth_Truck/Conveyor Belt	17.68
TN	Tennessee	NE2	NE_Low-Cost Competitive_Not Mine Mouth_Barge	19.69
TN	Tennessee	NAI3	NAIN_Low-Cost Competitive_Not Mine Mouth_Barge	13.96
MD	Maryland	NAI3	NAIN_Low-Cost Competitive_Not Mine Mouth_Barge	8.31
TN	Tennessee	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	13.76
MD	Maryland	NOR3	NORL_Low-Cost Competitive_Not Mine Mouth_Barge	8.50
WH	Wyoming, Powder River Basin (8800)	AMM1	AMMM_High-Cost Competitive_Mine Mouth_Rail	34.32
WH	Wyoming, Powder River Basin (8800)	AMM4	AMMM_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	30.60
WL	Wyoming, Powder River Basin (8400)	AMM1	AMMM_High-Cost Competitive_Mine Mouth_Rail	35.17
WL	Wyoming, Powder River Basin (8400)	AMM4	AMMM_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	31.17
WH	Wyoming, Powder River Basin (8800)	AMM3	AMMM_Low-Cost Competitive_Mine Mouth_Barge	31.47
WH	Wyoming, Powder River Basin (8800)	CU2	CU_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	25.06
WL	Wyoming, Powder River Basin (8400)	CU2	CU_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	25.63
WH	Wyoming, Powder River Basin (8800)	TXL4	TXLG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	25.29
WL	Wyoming, Powder River Basin (8400)	TXL4	TXLG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	25.01
WH	Wyoming, Powder River Basin (8800)	GFB2	GFBG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	30.86
WL	Wyoming, Powder River Basin (8400)	GFB2	GFBG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	30.58
WH	Wyoming, Powder River Basin (8800)	III6	III_Non-Competitive_Mine Mouth_Truck/Conveyor Belt	37.85
WL	Wyoming, Powder River Basin (8400)	III6	III_Non-Competitive_Mine Mouth_Truck/Conveyor Belt	37.56
IM	Imports	ALR3	ALRL_Low-Cost Competitive_Not Mine Mouth_Rail	13.24
IM	Imports	CAR3	CARL_Non-Competitive_Not Mine Mouth_Rail	8.83
IM	Imports	FL2	FL_Low-Cost Competitive_Not Mine Mouth_Barge	6.86
IM	Imports	FL3	FL_Low-Cost Competitive_Not Mine Mouth_Rail	6.30
IM	Imports	GAR2	GARL_Non-Competitive_Not Mine Mouth_Rail	6.23
IM	Imports	GFB1	GFBG_Low Cost Competitive_Not Mine Mouth_Rail	6.74
IM	Imports	GFB3	GFBG_Low-Cost Competitive_Not Mine Mouth_Barge	7.27
IM	Imports	GFB4	GFBG_Non-Competitive_Not Mine Mouth_Rail	12.46
IM	Imports	NE3	NE_Low-Cost Competitive_Not Mine Mouth_Rail	9.34
IM	Imports	NE2	NE_Low-Cost Competitive_Not Mine Mouth_Barge	8.30
IM	Imports	PE3	PE_Non-Competitive_Not Mine Mouth_Rail	9.86
IM	Imports	TAB1	TABG_High-Cost Competitive_Not Mine Mouth_Rail	7.27
ME	Montana, East	DAL2	DALG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
ND	North Dakota	DAL2	DALG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
WL	Wyoming, Powder River Basin (8400)	DAL2	DALG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03

Coal Supply Region - Code	Coal Supply Region - Description	Final Coal Demand Region - 4 Character	Final Coal Demand Region	Total Cost (2004$/Ton)
WH	Wyoming, Powder River Basin (8800)	DAL2	DALG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
WA	Washington	WON4	WONR_Non-Competitive_Mine Mouth_Rail	1.03
CG	Colorado, Green River	PNWP	CU_Non-Competitive_Not Mine Mouth_Rail	4.05
CU	Colorado, Uinta	PNWP	CU_Non-Competitive_Not Mine Mouth_Rail	1.58
MP	Montana, Powder River	PNWP	CU_Non-Competitive_Not Mine Mouth_Rail	18.64
UT	Utah	PNWP	CU_Non-Competitive_Not Mine Mouth_Rail	2.72
WL	Wyoming, Powder River Basin (8400)	PNWP	CU_Non-Competitive_Not Mine Mouth_Rail	12.31
CG	Colorado, Green River	PPNW	WONR_Non-Competitive_Not Mine Mouth_Rail	22.64
CU	Colorado, Uinta	PPNW	WONR_Non-Competitive_Not Mine Mouth_Rail	20.16
MP	Montana, Powder River	PPNW	WONR_Non-Competitive_Not Mine Mouth_Rail	16.44
WA	Washington	PPNW	WONR_Non-Competitive_Not Mine Mouth_Rail	0.94
WL	Wyoming, Powder River Basin (8400)	PPNW	WONR_Non-Competitive_Not Mine Mouth_Rail	18.78
WH	Wyoming, Powder River Basin (8800)	PNWP	CU_Non-Competitive_Not Mine Mouth_Rail	11.47
WH	Wyoming, Powder River Basin (8800)	PPNW	WONR_Non-Competitive_Not Mine Mouth_Rail	24.90
CG	Colorado, Green River	PMRO	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	15.06
CU	Colorado, Uinta	PMRO	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	17.31
IL	Illinois	PMRO	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	18.77
KW	Kentucky West	PMRO	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	29.90
MP	Montana, Powder River	PMRO	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	12.50
WL	Wyoming, Powder River Basin (8400)	PMRO	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	7.18
KE	Kentucky East	PVAP	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	15.24
MD	Maryland	PVAP	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	9.80
OH	Ohio	PVAP	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	18.51
PW	Pennsylvania, West	PVAP	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	19.42
TN	Tennessee	PVAP	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	12.43
VA	Virginia	PVAP	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	19.18
WN	West Virginia, North	PVAP	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	11.96
WL	Wyoming, Powder River Basin (8400)	PVAP	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	34.63
WS	West Virginia, South	PVAP	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	9.94
WH	Wyoming, Powder River Basin (8800)	PMRO	MWRL_High-Cost Competitive_Not Mine Mouth_Rail	8.01
WH	Wyoming, Powder River Basin (8800)	PVAP	VEPR_High-Cost Competitive_Not Mine Mouth_Rail	34.78
CG	Colorado, Green River	PERC	GFRL_Low-Cost Competitive_Not Mine Mouth_Rail	17.68
WL	Wyoming, Powder River Basin (8400)	PERC	GFRL_Low-Cost Competitive_Not Mine Mouth_Rail	17.73
WH	Wyoming, Powder River Basin (8800)	PERC	GFRL_Low-Cost Competitive_Not Mine Mouth_Rail	15.80
ND	North Dakota	PMRO	DALG_High-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
TX	Texas	PERC	TXLG_Low-Cost Competitive_Mine Mouth_Truck/Conveyor Belt	1.03
CG	Colorado, Green River	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	28.77
CU	Colorado, Uinta	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	31.02
IL	Illinois	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	10.56
IN	Indiana	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	7.47
KE	Kentucky East	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	8.87
KW	Kentucky West	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	1.03
OH	Ohio	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	11.62
PW	Pennsylvania, West	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	18.47
WN	West Virginia, North	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	14.92
WL	Wyoming, Powder River Basin (8400)	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	22.69
WS	West Virginia, South	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	15.17
WH	Wyoming, Powder River Basin (8800)	PECK	IBBG_Low Cost Competitive_Not Mine Mouth_Rail	20.17
CG	Colorado, Green River	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	22.14
CU	Colorado, Uinta	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	24.17
IL	Illinois	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	1.03
IN	Indiana	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	12.28
KE	Kentucky East	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	15.39
KW	Kentucky West	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	10.18
MP	Montana, Powder River	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	13.79
OH	Ohio	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	10.81
PW	Pennsylvania, West	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	13.80
VA	Virginia	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	18.29
WN	West Virginia, North	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	17.65
WL	Wyoming, Powder River Basin (8400)	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	12.57
WS	West Virginia, South	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	17.08
WH	Wyoming, Powder River Basin (8800)	PCOM	NIIR_Low-Cost Competitive_Not Mine Mouth_Rail	12.98
CG	Colorado, Green River	PECM	III_Low-Cost Competitive_Not Mine Mouth_Rail	23.42
CU	Colorado, Uinta	PECM	III_Low-Cost Competitive_Not Mine Mouth_Rail	25.67
IL	Illinois	PECM	III_Low-Cost Competitive_Not Mine Mouth_Rail	5.27
IN	Indiana	PECM	III_Low-Cost Competitive_Not Mine Mouth_Rail	1.03
KE	Kentucky East	PECM	III_Low-Cost Competitive_Not Mine Mouth_Rail	14.20
KW	Kentucky West	PECM	III_Low-Cost Competitive_Not Mine Mouth_Rail	11.03
MP	Montana, Powder River	PECM	III_Low-Cost Competitive_Not Mine Mouth_Rail	18.29
WL	Wyoming, Powder River Basin (8400)	PECM	III_Low-Cost Competitive_Not Mine Mouth_Rail	17.06
WS	West Virginia, South	PECM	III_Low-Cost Competitive_Not Mine Mouth_Rail	15.61
WH	Wyoming, Powder River Basin (8800)	PECM	III_Low-Cost Competitive_Not Mine Mouth_Rail	17.35