

THE GEOLOGICAL SURVEY OF WYOMING  
Daniel N. Miller, Jr., State Geologist

PUBLIC INFORMATION CIRCULAR No. 12

WYOMING COAL PRODUCTION AND SUMMARY  
OF COAL CONTRACTS

by  
Gary B. Glass



*Prepared in cooperation with the Minerals Division, Wyoming  
Department of Economic Planning and Development and the Region 8  
Office of the U.S. Department of Energy*

LARAMIE, WYOMING

1980

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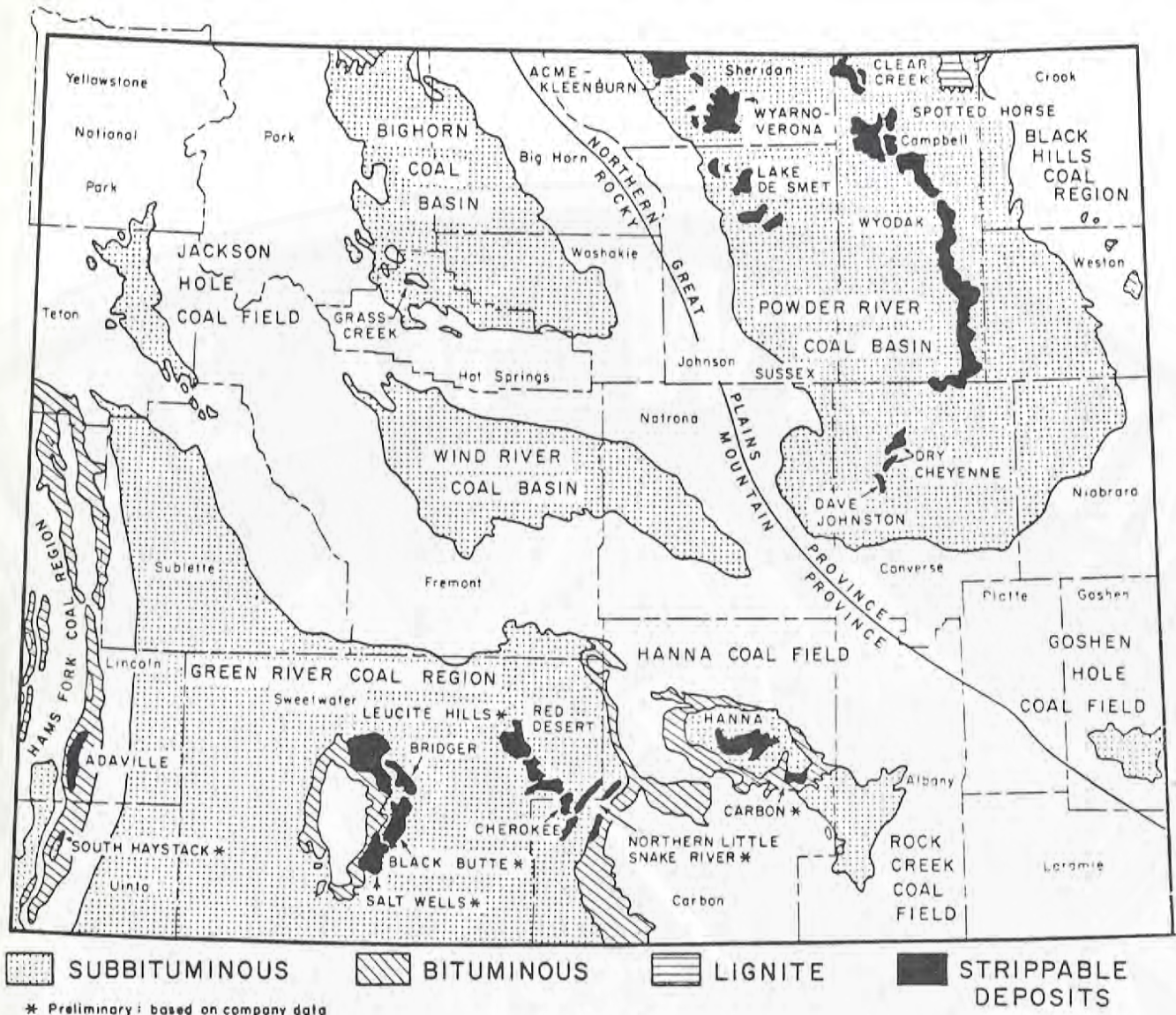


Figure 1. Wyoming Coal-Bearing Areas.

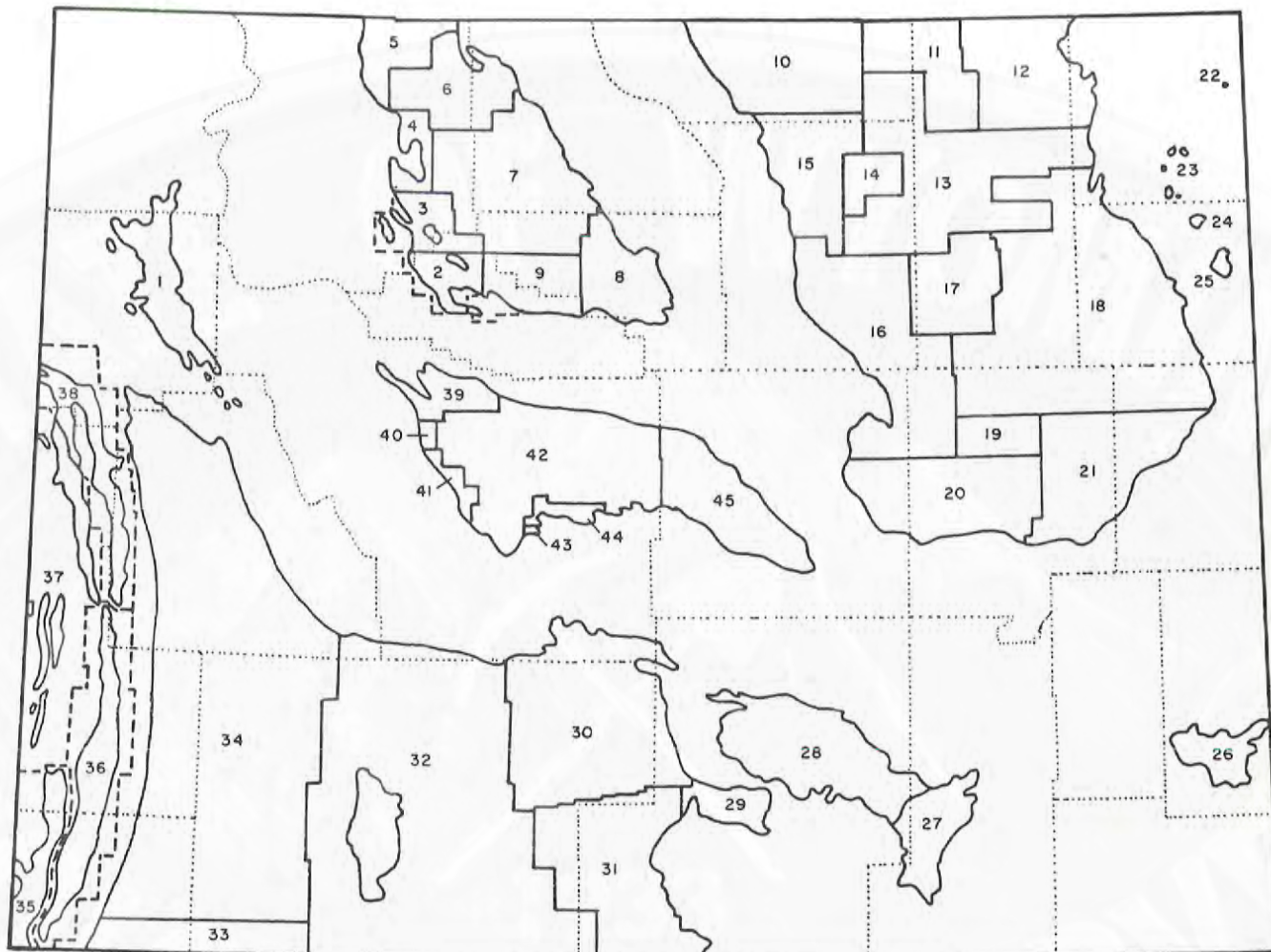
### COAL-BEARING AREAS

As defined by the United States Geological Survey, Wyoming's coal fields fall into two coal-bearing provinces. The coals in northeastern Wyoming are within the Northern Great Plains Province while all other coal deposits of the State are

in the Rocky Mountain Province. Additionally, the United States Bureau of Mines designates Wyoming as coal-producing District 19. Beyond these national designations, the State's coal-bearing areas are divided into the following 10 major regions, basins, or fields, which underlie more than 40,000 square miles or approximately 41% of the

State and which collectively contain almost 24% of the nation's

coal resources under less than 6,000 feet of overburden (Figure 1):



No. on map	Coal Field	No.	Coal Field	No.	Coal Field
1.	Jackson Hole	10.	Sheridan	22.	Aladdin
2.	Grass Creek	11.	Spotted Horse	23.	Sundance
3.	Mecteetse	12.	Little Powder River	24.	Skull Creek
4.	Oregon Basin	13.	Powder River	25.	Cambria
5.	Silvertip	14.	Barber	26.	Goshen Hole
6.	Garland	15.	Buffalo	27.	Rock Creek
7.	Basin	16.	Sussex	28.	Hanna
8.	Southeastern	17.	Pumpkin Buttes	29.	Kindt Basin
9.	Gebo	18.	Gillette	30.	Great Divide Basin
		19.	Dry Cheyenne	31.	Little Snake River
		20.	Glenrock	32.	Rock Springs
		21.	Lost Spring	33.	Henry's Fork
				34.	Labarge Ridge
				35.	Evanston
				36.	Kemmerer
				37.	Greys River
				38.	McDougal
				39.	Muddy Creek
				40.	Pilot Butte
				41.	Hudson
				42.	Beaver Creek
				43.	Big Sand Draw
				44.	Alkali Butte
				45.	Arminto

Figure 2. Coal Fields of Wyoming.



1. Powder River Coal Basin
2. Green River Coal Region
3. Hams Fork Coal Region
4. Hanna Coal Field
5. Wind River Coal Basin
6. Bighorn Coal Basin
7. Rock Creek Coal Field
8. Jackson Hole Coal Field
9. Black Hills Coal Region
10. Goshen Hole Coal Field

These major areas are further subdivided into 45 individual coal fields (Figure 2). Twelve fields are in the Powder River Basin while 8 are in the Bighorn Basin. The Wind River and Green River regions consist of 7 and 6 fields respectively, while the Hams Fork Region and the Black Hills Region each have 4 fields. The remaining four major regions are single coal fields. Revised boundaries for many of these fields are shown in Figure 2.

#### COAL-BEARING ROCKS

Wyoming's coals occur in rock sequences deposited during either the Cretaceous Period (some 66-135 million years ago) or during the younger Tertiary Period (38-66 million years ago). During both these periods, depositional environments and climates were at least periodically well suited to the development of densely vegetated swamps. Peats that accumulated in these swamps have since been transformed into the nearly trillion tons of coal that still underlie 41 percent of the state (Glass, 1978).

#### COAL MINING AND PRODUCTION

Except for an eleven-year interval after World War I, Wyoming's annual coal production for the years 1910 through 1945 remained above

six million tons. After 1945, production fell to a record low of 1.6 million tons by 1958. This decline followed World War II, and more importantly, the railroads' change from steam to diesel engines.

Renewed interest in Wyoming's vast coal deposits began in the late 1960's as power plant demands for inexpensive, low sulfur coals increased. Because of this demand, Wyoming's coal companies have set new production records every year since 1972 (Figure 3). Table 1 summarizes annual production for the last 19 years on a county basis.

Wyoming's 1978 tonnage set yet another record at 58.2 million tons. With this tonnage, Wyoming remains the largest coal-producing state in the Rocky Mountains and the fourth largest in the nation (Table 2).

Coal production in Wyoming was dominated by underground mining until 1954. In that year, strip mining tonnage barely exceeded that of the underground mines. Since then, however, strip mining has become the dominant mining method and now accounts for about 99 percent of Wyoming's annual production. Conversely, underground mining has slipped to approximately one percent of the annual tonnage mined.

In 1978, twenty-one coal mining companies produced 58.2 million tons of coal. These companies operated 22 strip mines and 3 underground mines. Two of the underground mines accounted for 99 percent of the underground tonnage of 709,217 tons. Nine of the strip mines produced in excess of 2.5 million tons, thus accounting for 80 percent of the strip mine tonnage (Table 3). Amax Coal Company's Belle Ayr strip mine remained the largest coal mine in the United States in 1978, producing 18.1

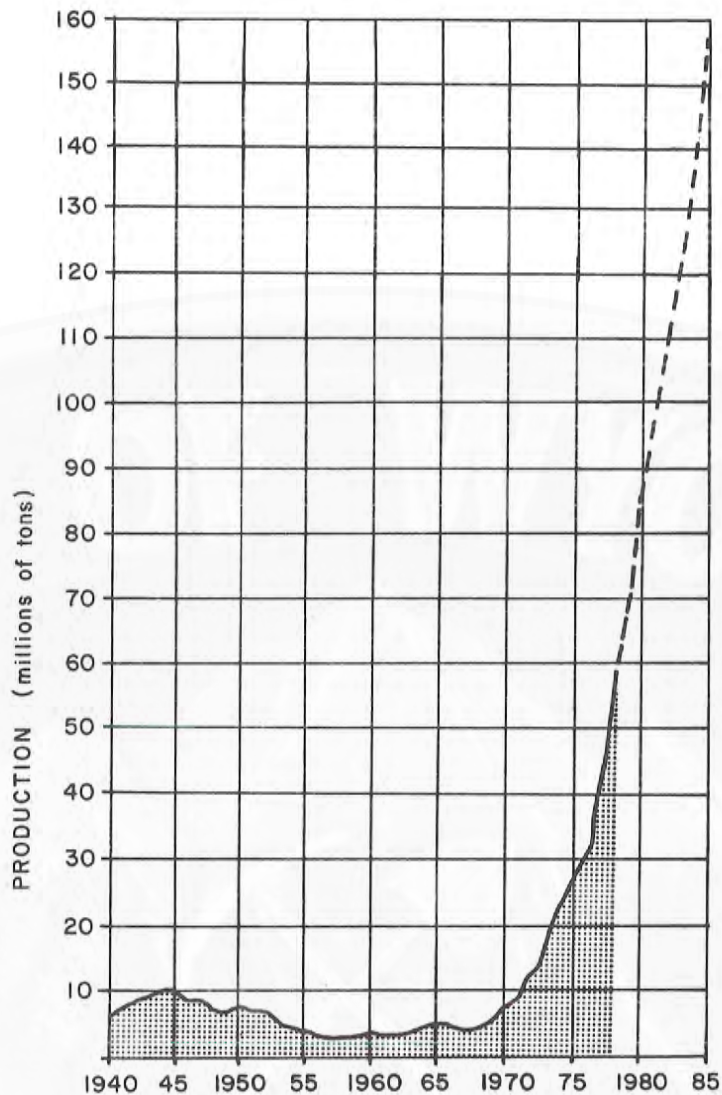


Figure 3. Wyoming Coal Production 1940-1978 with Projections to 1985.

million tons. Forecast 1979 production is also shown in Table 3.

#### FORECAST COAL PRODUCTION

Coal production forecasts in Table 4 are for the most part based on signed contracts. In a few instances, tonnages from "nearly-permitted" mines are included even

though there are not yet any signed contracts (Table 5).

The estimates are conservative and should be achieved with little or no new federal leasing (only five mines in the estimate require new federal leases). Production from these five mines is only projected to reach 8.1 million tons per year by 1990.

Table 1. Historical Annual Coal Production in Tons.<sup>1</sup>

	Campbell	Carbon	Sweetwater	Lincoln	Converse	Sheridan	Hot Springs	Fremont	Sublette	Total
1960	458,644	129,881	242,745	250,154	525,999	382,377	12,810	1,534	NR <sup>3</sup>	2,004,147
1961	447,446	378,591	233,637	283,266	826,422	348,828	11,394	1,121	NR	2,530,708
1962	482,781	463,775	155,191	333,799	769,878	356,636	11,448	952	125	2,574,587
1963	495,885	531,786	70,342	612,138	1,029,996	375,823	9,925	761	284	3,126,942
1964	488,845	447,948	97,311	621,483	1,004,381	431,521	11,789	514	0	3,103,794
1965	490,527	417,069	112,126	626,705	1,250,678	349,313	10,325	417	0	3,257,163
1966	475,170	454,736	115,942	726,138	1,565,012	326,037	9,101	328	0	3,670,465
1967	504,816	446,578	107,304	756,979	1,414,995	348,180	9,794	0	0	3,588,648
1968	540,084	476,899	107,305	952,223	1,389,804	217,790	10,104	0	0	3,694,212
1969	558,106	615,235	113,691	1,459,471	1,504,253	346,379	8,868	0	0	4,605,994
1970	641,494	1,613,231	225,184	1,583,429	1,844,277	1,464,597	8,716	0	0	7,380,929
1971	646,589	1,849,690	491,560	1,503,545	1,731,887	1,776,836	7,657	0	0	8,007,765
1972	655,577	4,171,037	389,225	2,102,919	2,622,150	973,878	5,679	0	0	10,920,467
1973	1,594,563	6,829,362	103,470	2,946,676	2,898,578	463,253	4,870	85	0	14,840,857
1974	4,039,720	8,707,143	838,368	3,353,157	2,687,045	1,017,614	6,707	0	0	20,649,754
1975	4,074,672	10,949,596	1,986,816	2,733,091	3,231,649	805,510	2,794	0	0	23,784,128
1976	8,081,554	11,553,931	3,787,796	4,206,981	2,714,326	739,318	1,686	65	0	31,085,592
1977 <sup>2</sup>	17,466,872	12,119,539	5,714,983	5,102,938	3,236,616	2,394,532	1,607	0	0	46,037,087
1978	29,041,896	12,603,170	5,343,732	4,961,368	3,358,899	2,860,843	4,917	0	0	58,174,825

5

<sup>1</sup> Gross production from State Inspector of Mines Annual Reports

<sup>2</sup> Revised production correcting errors in Annual Report of the State Inspector of Mines

<sup>3</sup> NR-none reported

Table 2. Ten Largest Coal-Producing States in 1978 (million of tons).<sup>1</sup>

	Tonnage	Percent of Total	Cumulative Percent
Kentucky	131.2	20.0	20.0
West Virginia	84.7	13.0	33.0
Pennsylvania	75.1	11.5	44.5
Wyoming	58.2	8.9	53.4
Illinois	48.9	7.5	60.9
Ohio	43.5	6.7	67.6
Virginia	29.7	4.6	72.2
Montana	26.7	4.1	76.3
Indiana	23.9	3.7	80.0
Texas	21.0	3.2	83.2
All Others	110.9	16.8	100.0
U.S. Total	653.8	100.0	

<sup>1</sup>Preliminary figures from Office of Energy Data and Interpretation (1979)

Twenty mines included in the estimate require issuance of federal and state mining permits (eight of these mines have already applied for permits). It is also noteworthy that the projected 1990 capacity of the existing 29 coal mines in Wyoming will exceed the total projected demand in 1990 by 4.8 million tons. This suggests that these forecasts are attainable without permitting some of the planned mines.

Since the Uinta and Johnson County projections each hinge on single mines that are not yet permitted, they are the least reliable estimates. The Cumberland Coal Company in Uinta County, however, has already applied for a mining permit, which makes its chances of opening a mine fairly good. The mine in Johnson County, on the other hand, is dependent on Texaco's coal gasification project. If

they do not build a coal gasification plant in the late 1980's, there will be no production in that county.

The forecast production levels for 1979-1983 also were reduced to reflect transportation shortfalls and reduction in demand due to energy conservation. Based on 1978-1979 trends, these reductions were calculated as 5-12 percent of the apparent contracted tonnage for each of those years (Table 4). Because it is unclear how long reductions in demand such as these might last, 1983 was admittedly chosen rather arbitrarily.

For comparison purposes, Figure 4 is provided to show the relationship between earlier production forecasts and this one.

Table 3. Wyoming Coal Production by Mine.

COMPANY	MINE NAME	EMPLOYEES 1978 <sup>1</sup>	PRODUCTION 1978 <sup>1</sup>	PRODUCTION 1979 <sup>2</sup>
Amax	Belle Ayr (strip)	417	18,065,710	15,000,000
	Eagle Butte (strip)	34	250,000	3,700,000
Arch Mineral	Seminole No. 1 (strip)	199	2,504,662	2,500,000
	Seminole No. 2 (strip)	260	2,831,817	3,000,000
Ash Creek Mining	PSO No. 1 (strip)	22	Under Construction	Activity Suspended
Becor & Assoc.	Roncco (deep)	2	39	40
Big Horn	Big Horn (strip)	228	2,844,958	2,500,000
Black Butte	Black Butte (strip)	35	Under Construction	500,000
Black Mountain	Black Mountain No. 1 (strip)	5	15,885	10,000
Bridger	Jim Bridger (strip)	285	5,048,913	6,400,000
Carter Mining	Caballo (strip)	46	145,000	500,000
	Rawhide (strip)	168	2,625,000	4,000,000
Cordero Mining (SUNEDCO)	Cordero (strip)	100	2,886,593	3,100,000
Cravat	Deadman (test pit)	9	1,000	0
Delzer Construction	Fort Union (strip)	?	Under Construction	5,000
Dusky Diamond	Grass Creek (strip)	3	4,878	5,000
Energy Development	Energy pits (strip)	83	800,935	900,000
	Vanguard No. 2 (deep)	232	414,259	400,000
FMC Corp.	Skull Point (strip)	68	896,036	750,000
Glenrock (NERCO)	Dave Johnston (strip)	133	3,358,899	3,300,000
Kemmerer	Elkol (strip)	231	1,724,327	1,750,000
	Sorensen (strip)	311	2,340,005	2,500,000
Kerr-McGee	Clovis Point (strip)	74	Under Construction	500,000
	Jacobs Ranch (strip)	149	1,797,520	4,500,000
Medicine Bow	Medicine Bow (strip)	225	3,129,651	3,300,000
Prospect Point	Commercial stockpile & tipple	11	— <sup>3</sup>	— <sup>3</sup>
Rosebud Coal Sales	Rosebud pits (strip)	190	2,921,846	3,000,000
Stansbury	Stansbury (deep)	216	294,819	300,000
Thunder Basin (ARCO)	Black Thunder (strip)	183	1,982,424	6,500,000
Wyodak Resources	Wyodak (strip)	44	1,289,649	2,300,000
TOTAL		3,928	58,174,825	71,200,000 <sup>4</sup>

<sup>1</sup> Source: State Inspector of Mines

<sup>2</sup> Estimated by Wyoming Geological Survey

<sup>3</sup> Purchases at least 500,000 tons per year from Bridger Coal Company

<sup>4</sup> Rounded to nearest 100,000 tons

Table 4. Coal Forecast in Millions of Tons by County with State Total.<sup>1</sup>

	Campbell	Carbon	Sweetwater	Lincoln	Converse	Sheridan	Uinta	Johnson <sup>2</sup>	Fremont <sup>4</sup>	Hot Springs <sup>5</sup>	State Total	Percentage below contracted tonnage <sup>3</sup>
1979	40.1	13.1	7.2	5.0	3.3	2.5	-	-	NEG <sup>4</sup>	NEG <sup>5</sup>	71.2	5%
1980	54.4	12.6	9.0	5.0	3.0	2.0	-	-	-	"	86.0	12%
1981	64.6	13.0	10.5	5.0	3.0	2.5	-	-	-	"	98.6	9%
1982	76.6	12.6	11.0	5.3	3.3	2.5	-	-	-	"	111.3	5%
1983	88.0	13.3	11.6	5.8	3.3	2.8	0.5	-	-	"	125.3	5%
1984	103.8	13.4	12.3	5.8	3.3	3.0	1.0	-	-	"	142.6	-
1985	112.4	14.4	16.0	5.8	4.1	3.1	1.0	-	-	"	156.8	-
1986	118.4	15.4	16.5	5.8	4.1	3.1	1.5	-	-	"	164.8	-
1987	122.0	16.4	16.0	5.8	4.1	3.1	1.5	-	-	"	168.9	-
1988	123.6	17.6	16.0	5.8	4.1	3.1	1.5	-	-	"	171.7	-
1989	124.1	18.4	16.0	5.8	4.1	3.1	1.5	0.5	-	"	173.5	-
1990	124.6	18.9	16.0	5.8	4.1	3.1	1.5	1.5	-	"	175.5	-
Probable 1990 Mine Capacity <sup>6</sup>	198.9	22.4	22.2	5.8	13.3	4.3	5.0	4.5	NEG	NEG	276.4	
Possible 1990 Mine Capacity <sup>7</sup>	219.9	25.7	27.3	9.7	18.3	5.3	5.0	4.5	NEG	0.7	316.4	

∞

<sup>1</sup> Geological Survey of Wyoming (January 1980)

<sup>2</sup> Hinges on completion of Texaco's coal gasification project at Lake De Smet

<sup>3</sup> 1979-1983 forecasts are below contracted amounts to offset expected transportation delays and energy conservation measures

<sup>4</sup> Negligible

<sup>5</sup> About 10,000 tons per year

<sup>6</sup> Only includes mines from which production is anticipated

<sup>7</sup> Includes all proposed mines, regardless of status

Table 5. Status of Wyoming Coal Mines.

ACTIVE

*Belle Ayr	*Elkol	Roncco
*Big Horn	Energy Development Pits	*Rosebud Pits
*Black Butte	*Fort Union	*Seminoe No. 1
*Black Mountain	*Grass Creek	*Seminoe No. 2
*Black Thunder	*Jacobs Ranch	*Skull Point
*Caballo	*Jim Bridger	*Sorensen
*Carbon County	*Medicine Bow	*Stansbury
*Clovis Point	Muddy Creek	*Vanguard No. 2
*Cordero	*Prospect Point (coal tipple)	*Wyodak
*Dave Johnston	*Rawhide	
*Eagle Butte		

PROPOSED-WITH CONTRACTS OR LETTERS OF AGREEMENT

*Antelope	North Knobs
*Buckskin	*PSO No. 1
*Coal Creek	*Red Rim
*East Gillette Federal	Rochelle
*Hanna South	*Texaco (unnamed)
*North Antelope	*Wymo
*Carbon Basin	

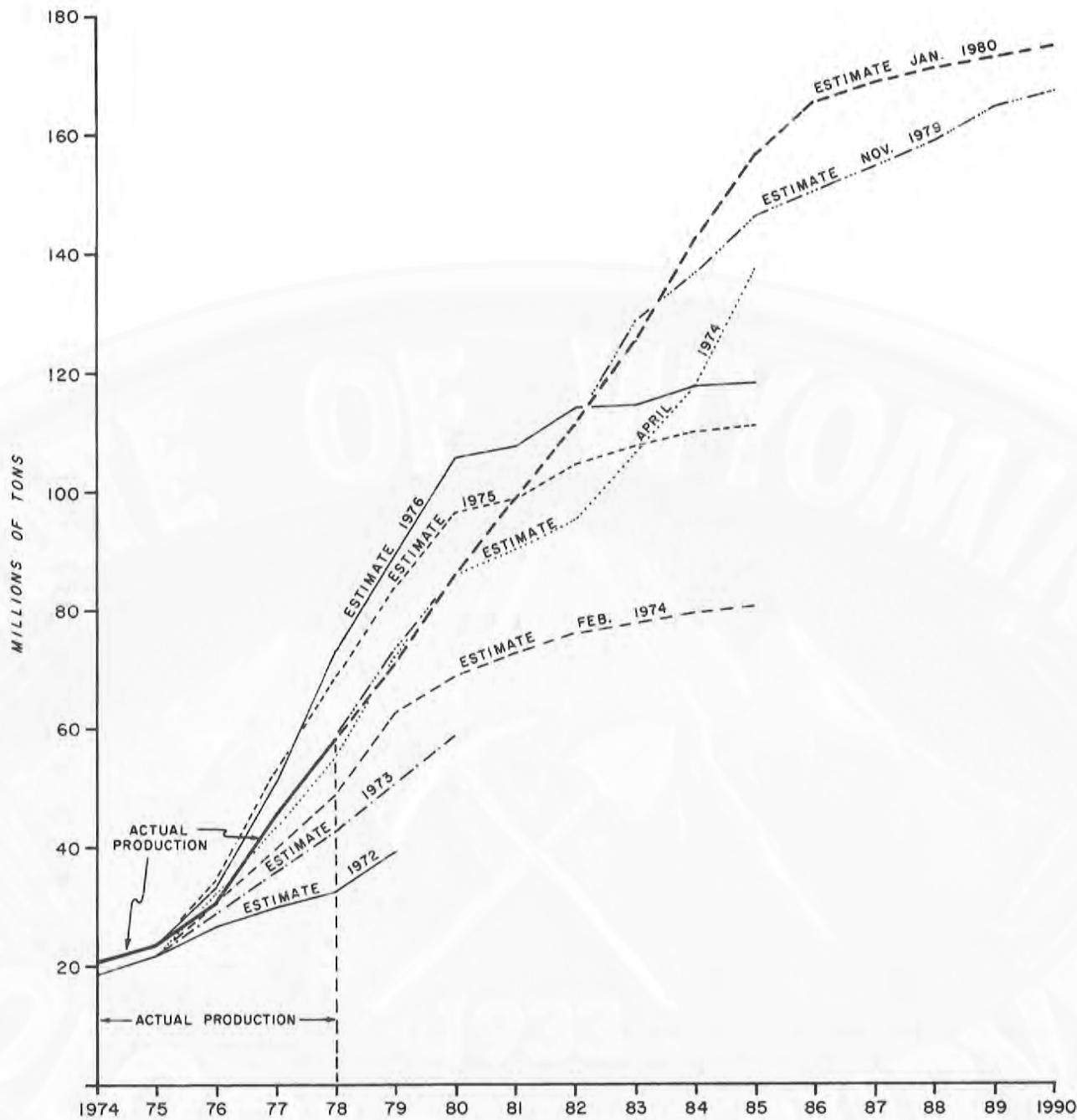
PROPOSED-WITHOUT CONTRACTS

Alkali Butte	*Dutchman	Salt Wells
Atlantic Rim	*Leucite Hills	*South Haystack
Attorney's Title (unnamed)	Long Canyon	South Rawhide
Bean Springs	Norfolk	Stevens North
Bell	North Block	Twin Creek
*Cherokee	North Gillette	Welch
*China Butte	*Pronghorn	*Welch No. 1
*Corral Canyon	Red Desert	*Wildcat
Creston-Cherokee	Reliance	Winton
Deadman	*Rojo Caballos	

QUESTIONABLE STATUS

Elmore	Falcon	Ranchers Energy (unnamed)
El Paso (unnamed)	Pavillion	Whitney
	Rainbow No. 8	

\* Mines from which production is anticipated by 1990



WYOMING GEOLOGICAL SURVEY, 1980

Figure 4. Comparison of Coal Production Forecasts.

### COAL MARKETS

In 1978, about 77 percent or 45.1 million tons of the coal mined in Wyoming went to users as far west as Washington and Oregon, as far south as Texas and Louisiana, and as far east as New York, Ohio,

Kentucky, Illinois, and Indiana (Figure 5). While the shipments to New York and Kentucky were obviously a reflection of the 1978-1979 bituminous coal strike, only small portions of the tonnages to Illinois, Indiana, and Ohio were attributable to that strike.



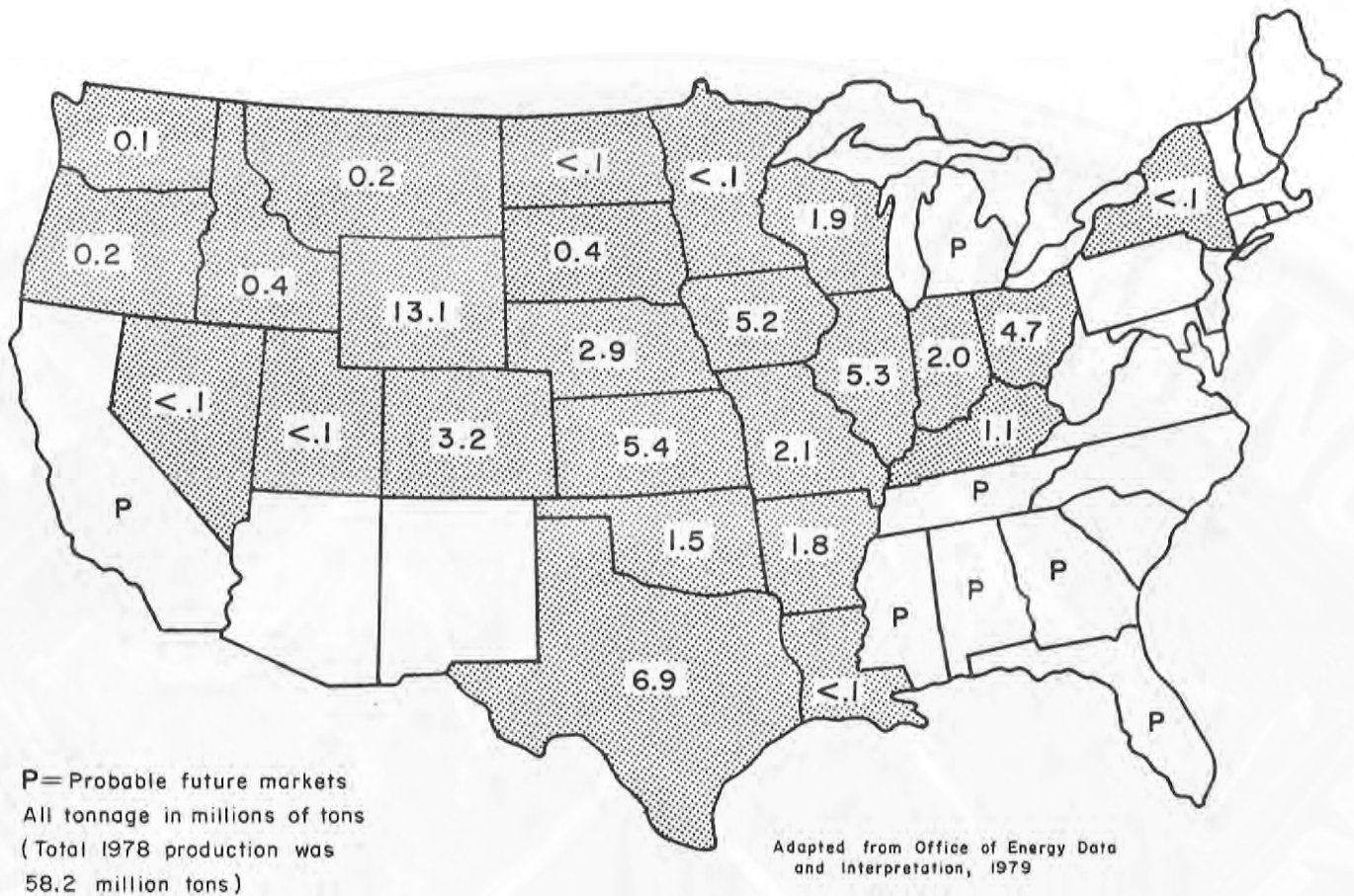


Figure 5. 1978 Markets for Wyoming Coal.

While most of 1978's out-of-state usage was for power plants (44.6 million tons), an estimated 1.5 million tons were used by the beet sugar, cement, and phosphorous industries as well as other small manufacturers, government buildings, school districts, and homeowners.

Of the 13.1 million tons of coal used in Wyoming in 1978, power plants consumed 11.5 million tons

or 88 percent. The other 1.6 million tons of coal consumed in Wyoming were used to manufacture trona, cement, and synthetic coke and to fuel government buildings, schools, and private homes.

As evidenced by Table 6, the proportion of Wyoming's coal that is used out-of-state is continually increasing. By 1990, out-of-state users will probably consume 85 percent of Wyoming's annual production

Table 6. Utilization Trends for Wyoming Coal.<sup>1</sup>

	IN-STATE UTILIZATION			OUT-OF-STATE UTILIZATION			GRAND TOTAL	PERCENTAGE USED OUT-OF-STATE
	Power Plants	Industrial and others	Total	Power Plants	Industrial and others	Total		
1969	2.90	0.40	3.0	0.95	0.35	1.30	4.6	28%
1970	3.30	0.45	3.75	3.00	0.65	3.65	7.4	49%
1971	3.05	0.55	3.60	3.75	0.65	4.40	8.0	55%
1972	4.60	0.50	5.10	5.10	0.70	5.80	10.9	53%
1973	5.70	0.50	6.20	7.80	0.80	8.60	14.8	58%
1974	6.00	0.50	6.50	13.00	1.10	14.10	20.6	68%
1975	6.80	1.10	7.90	14.60	1.30	15.90	23.8	67%
1976	9.00	1.10	10.10	19.50	1.50	21.00	31.1	68%
1977	11.90	1.00	12.90	31.90	1.20	33.10	46.0	72%
1978	11.50	1.60	13.10	44.60	1.50	45.10	58.2	77%

<sup>1</sup> Estimated

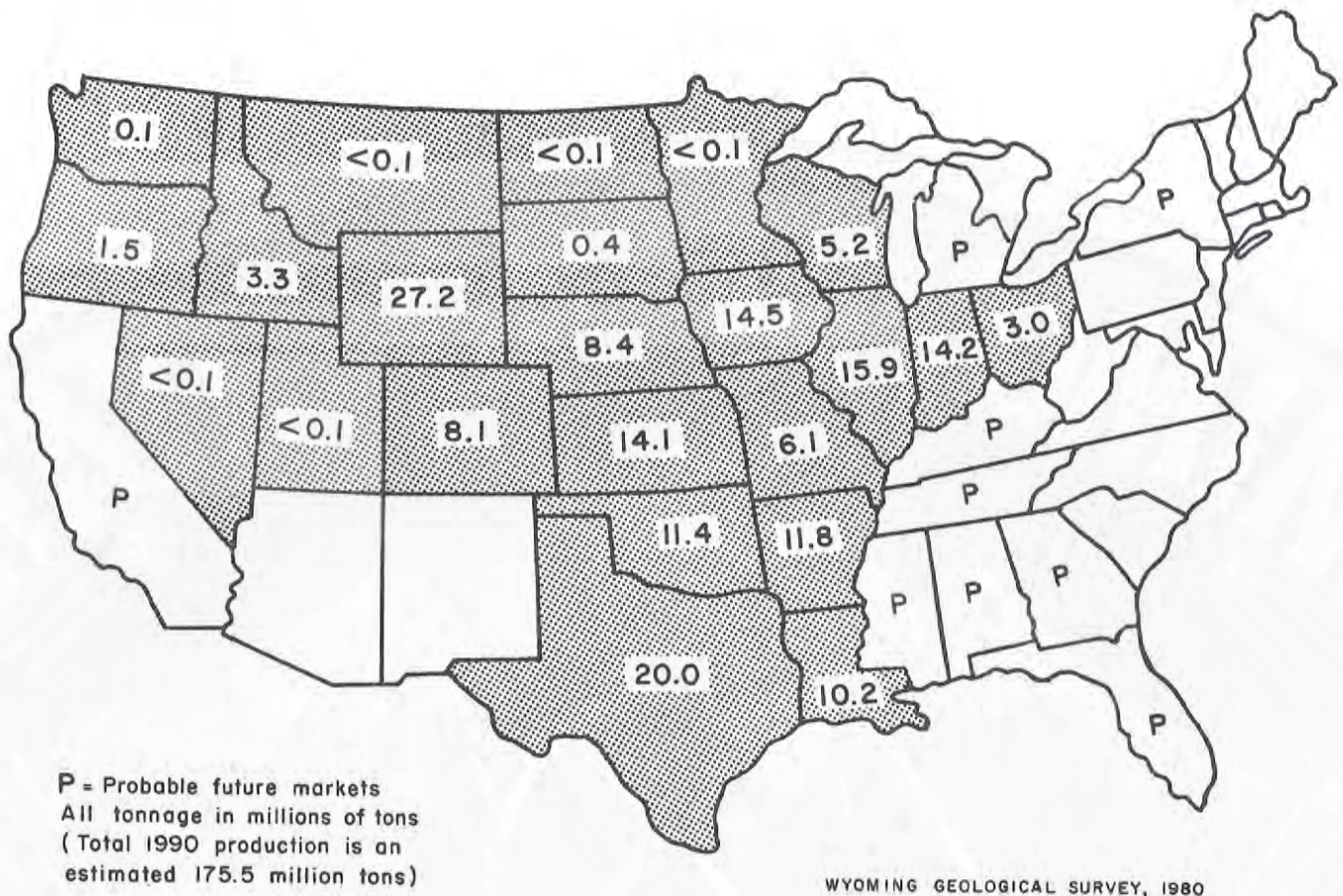


Figure 6. 1990 Markets for Wyoming Coal.

(Figure 6).

### COAL CONTRACTS

This section of the report consists of two appendices. Appendix A is a summary of current and proposed Wyoming coal markets. The mines supplying each buyer are identified in this listing. Appendix B, on the other hand, summarizes coal contract information on a mine by mine basis. Mines

are listed alphabetically by company.

Although the contract information in Appendix B is as accurate as possible, there could be errors or omissions. Corrections and additions to this data are solicited from any user. Please direct your comments to:

Coal Section  
 Geological Survey of Wyoming  
 Box 3008, University Station  
 Laramie, WY 82071  
 (307) 742-2054

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APPENDIX A

SUMMARY OF COAL MARKETS

ABBREVIATIONS

myn = million

SUMMARY OF COAL MARKETS

POWER PLANTS

AMERICAN ELECTRIC POWER

Unspecified, IN  
Unspecified, OH

Belle Ayr/Eagle Butte (2 myn tons)  
Rawhide (1 myn tons)

ARKANSAS POWER AND LIGHT COMPANY

Independence No. 1, Newark, AR  
Independence No. 2, Newark, AR  
Whitebluff No. 1, Redfield, AR  
Whitebluff No. 2, Redfield, AR

North Antelope (2.5 myn tons)  
North Antelope (2.5 myn tons)  
Jacobs Ranch (2.5 myn tons)  
Jacobs Ranch (2.5 myn tons)

BLACK HILLS POWER AND LIGHT COMPANY

Ben French Plant, Rapid City SD  
Kirk Plant, Lead, SD  
Neil Simpson No. 5, Wyodak, WY  
Osage Plant, Osage, WY  
Wyodak No. 2, Wyodak, WY

Wyodak (0.3 myn tons)  
Wyodak (0.1 myn tons)  
Wyodak (0.2 myn tons)  
Wyodak (0.3 myn tons)  
Wyodak (1.5 myn tons)

CAJUN ELECTRIC POWER COOPERATIVE

Big Cajun 2, No. 1, New Roads, LA  
Big Cajun 2, No. 2, New Roads, LA  
  
Big Cajun 2, No. 3, New Roads, LA

Clovis Point (2.3 myn tons)  
Clovis Point and Buckskin (2.3  
myn tons)  
Buckskin (2.3 myn tons)

? CEDAR FALLS MUNICIPAL UTILITIES

? Streeter Plant, Cedar Falls, IA

? Rosebud (0.1 myn tons)

CENTRAL LOUISIANA ELECTRIC COMPANY, INC.

Rodemacher No. 2, Lena, LA

Jacobs Ranch (1.8 myn tons)

COMMONWEALTH EDISON COMPANY

? Crawford Plant, Chicago, IL  
Dixon Nos. 4 & 5, Dixon, IL  
Joliet Plant, Joliet, IL  
Joliet No. 5, Joliet, IL  
? Powerton Plant, Pekin, IL  
Waukegan No. 1, Waukegan, IL  
Will County Plant, Joliet, IL  
Unspecified

Big Horn (0.1 myn tons)  
Seminoe No. 1 (0.2 myn tons)  
Seminoe No. 2 (0.4 myn tons)  
Big Horn (0.1 myn tons?)  
Carbon Basin (4.0 myn tons)  
Seminoe No. 1 (0.5 myn tons)  
Big Horn (0.1 myn tons)  
Black Butte, Carbon Basin, and  
Prospect Point (11.5 myn tons)

COMMONWEALTH EDISON OF INDIANA

State Line No. 1, Hammond, IN

Big Horn (0.2 myn tons)

DAIRYLAND POWER COOPERATIVE

John P. Madgett Plant, Alma, WI

Belle Ayr/Eagle Butte (1.0 myn tons)

? EASTERN IOWA LIGHT AND POWER COOPERATIVE

? Montpelier Plant, Montpelier, IA

Cordero (0.1 myn tons)

GRAND ISLAND UTILITIES

Platte No. 1, Grand Island, NB

Wyodak (0.3 myn tons)

GULF STATES UTILITIES COMPANY

Roy S. Nelson No. 5, Lake  
Charles, LA

Jacobs Ranch (2.5 myn tons)

HOUSTON LIGHTING AND POWER COMPANY

W. A. Parish No. 6, Thompson, TX  
W. A. Parish No. 7, Thompson, TX

Jacobs Ranch (2.8 myn tons)

Jacobs Ranch (2.8 myn tons)

IDAHO POWER COMPANY

? Unsited plant, ID

Black Butte (3.0 myn tons)

INDIANA AND MICHIGAN ELECTRIC COMPANY

Breed Plant, Sullivan, IN  
Project 2602, No. 1, IN  
Rockport No. 1, Rockport, IN  
Rockport No. 2, Rockport, IN  
? Tanners Creek Plant, Lawrence-  
burg, IN

Belle Ayr/Eagle Butte (1.0 myn tons)

Rawhide (3.0 myn tons)

Belle Ayr/Eagle Butte (3.0 myn tons)

Belle Ayr/Eagle Butte (3.0 myn tons)

Rawhide (2.0 myn tons)

INTERSTATE POWER COMPANY

Lansing Plant, Lansing, IA

Belle Ayr/Eagle Butte (0.4 myn tons)

IOWA-ILLINOIS GAS AND ELECTRIC COMPANY

Louisa Plant, Muscatine, IA

Cordero (2.3 myn tons)

IOWA POWER AND LIGHT COMPANY

Council Bluffs Nos. 1 & 2, Council Bluffs, IA	Rosebud (0.4 myn tons)
Council Bluffs No. 3, Council Bluffs, IA	Belle Ayr/Eagle Butte (2.3 myn tons)
Des Moines No. 2, Des Moines, IA	Belle Ayr/Eagle Butte and Rosebud (0.5 myn tons)

IOWA PUBLIC SERVICE COMPANY

Carroll Nos. 1 & 2, Carroll, IA	Rosebud (0.01 myn tons)
Eagle Grove Plant, Eagle Grove, IA	Rosebud (0.004 myn tons)
George Neal No. 2, Salix, IA	Energy Pits and Vanguard No. 2 (1.0 myn tons)
George Neal No. 3, Salix, IA	Medicine Bow, Rosebud, and Hanna South (1.2 myn tons)
George Neal No. 4, Salix, IA	Rawhide (2.0 myn tons)
Maynard Plant, Waterloo, IA	Energy Pits (0.1 myn tons)
Unspecified, IA	Red Rim (2.0 myn tons)

IOWA SOUTHERN UTILITIES COMPANY

Burlington Plant, Burlington, IA	Belle Ayr/Eagle Butte (0.1 myn tons)
Ottumwa No. 1, Chillicothe, IA	Cordero (2.0 myn tons)

KANSAS CITY BOARD OF PUBLIC UTILITIES

Nearman No. 1, Kansas City, KS	Rawhide (0.8 myn tons)
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KANSAS CITY POWER AND LIGHT COMPANY

Hawthorne Station, Kansas City, MO	Seminole No. 1 (0.5 myn tons)
Iatan No. 1, Weston, MO	Belle Ayr/Eagle Butte (1.8 myn tons)
LaCygne Station, LaCygne, KS	Belle Ayr/Eagle Butte (1.8 myn tons)
LaCygne-Linn County Plant, LaCygne, KS	Seminole No. 1 (0.5 myn tons)
? Montrose Plant, Clinton, MO	Seminole No. 2 (0.4 myn tons)
Unspecified, KS and/or MO	Wymo (4.0 myn tons)

KANSAS POWER AND LIGHT COMPANY

Jeffrey No. 1, St. Marys, KS	Belle Ayr/Eagle Butte (2.0 myn tons)
Jeffrey No. 2, St. Marys, KS	Belle Ayr/Eagle Butte (2.0 myn tons)
Jeffrey No. 3, St. Marys, KS	Belle Ayr/Eagle Butte (2.0 myn tons)
Jeffrey No. 4, St. Marys, KS	Belle Ayr/Eagle Butte (2.0 myn tons)
Lawrence Station, Lawrence, KS	Medicine Bow (0.7 myn tons)
Tecumseh Plant, Tecumseh, KS	Medicine Bow (0.3 myn tons)



LOWER COLORADO RIVER AUTHORITY

Sam K. Seymour, Jr., No. 1, La  
Grange, TX  
Sam K. Seymour, Jr., No. 2, La  
Grange, TX

Black Thunder and Coal Creek  
(1.0 myn tons)  
Black Thunder and Coal Creek  
(1.0 myn tons)

MISSOURI BASIN POWER PROJECT

Laramie River No. 1, Wheatland, WY  
Laramie River No. 2, Wheatland, WY  
Laramie River No. 3, Wheatland, WY

Cordero and Buckskin (2.0 myn tons)  
Cordero (1.5 myn tons)  
Caballo (2.1 myn tons)

NEBRASKA PUBLIC POWER DISTRICT

Gerald Gentleman No. 1, Suther-  
land, NB  
Gerald Gentleman No. 2, Suther-  
land, NB  
Kramer Plant, Bellevue, NB  
Sheldon Plant, Hallum, NB

Black Thunder (2.3 myn tons)  
Black Thunder (2.3 myn tons)  
Elkol (0.3 myn tons)  
Seminoe No. 1 (0.1 myn tons)

NORTHERN INDIANA PUBLIC SERVICE COMPANY

Dean H. Mitchell, Station, Gary,  
IN  
Michigan City Station, Michigan  
City, IN  
R. M. Schahfer No. 14, Wheatfield,  
IN  
R. M. Schahfer No. 15, Wheatfield,  
IN

Medicine Bow and Seminoe No. 2  
(1.5 myn tons)  
Seminoe No. 2 (0.3 myn tons)  
Seminoe No. 1 (0.2 myn tons)  
Carbon County (1.5 myn tons)

NORTHERN STATES POWER COMPANY

Lawrence Plant, Sious Falls, SD

Big Horn (0.03 myn tons)

OKLAHOMA GAS AND ELECTRIC COMPANY

Muskogee Nos. 4 & 5, Muskogee, OK  
Muskogee No. 5, Muskogee, OK  
Sooner No. 1, Ponka City, OK  
Sooner No. 2, Ponka City, OK

Black Thunder and Belle Ayr/Eagle Butte  
(1.5 myn tons)  
Black Thunder and Belle Ayr/Eagle Butte  
(1.5 myn tons)  
Black Thunder (1.6 myn tons)  
Black Thunder (1.6 myn tons)

OMAHA PUBLIC POWER DISTRICT

Nebraska City No. 1, Nebraska  
City, NB  
North Omaha Plant, Omaha, NB

Caballo (1.8 myn tons)  
Rosebud (1.2 myn tons)

PACIFIC POWER & LIGHT COMPANY

Dave Johnston Plant, Glenrock, WY	Dave Johnston (3.3 myn tons)
Jim Bridger No. 1, Point of Rocks, WY	Jim Bridger (1.8 myn tons)
Jim Bridger No. 2, Point of Rocks, WY	Jim Bridger (1.8 myn tons)
Jim Bridger No. 3, Point of Rocks, WY	Jim Bridger (1.8 myn tons)
Jim Bridger No. 4, Point of Rocks, WY	Jim Bridger (1.8 myn tons)
Wyodak No. 1, Wyodak, WY	Wyodak (1.5 myn tons)

PLATTE RIVER POWER AUTHORITY

Rawhide No. 1, Fort Collins, CO	Antelope (0.8 myn tons)
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PORTLAND GENERAL ELECTRIC

Carty Plant, Boardman, OR	Belle Ayr/Eagle Butte (1.2 myn tons)
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PUBLIC SERVICE OF COLORADO

Commanche Plant, Pueblo, CO	Belle Ayr/Eagle Butte (2.6 myn tons)
Pawnee No. 1, Brush County, CO	Belle Ayr/Eagle Butte (2.2 myn tons)
? Southeastern No. 1, CO	Belle Ayr/Eagle Butte (2.2 myn tons)
Valmont Plant, Boulder, CO	Rosebud (0.2 myn tons)

PUBLIC SERVICE OF OKLAHOMA

Northeastern No. 3, Oologah, OK	Jacobs Ranch and PSO No. 1 (2.0 myn tons)
Northeastern No. 4, Oologah, OK	Jacobs Ranch (2.0 myn tons)

SAN ANTONIO PUBLIC SERVICE BOARD

J. T. Deely No. 1, Elmendorf, TX	Cordero (1.5 myn tons)
J. T. Deely No. 2, Elmendorf, TX	Cordero (1.5 myn tons)

SOUTHERN SERVICES, INC.

Unspecified in southeastern U.S.	Carbon County (? tonnage)
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SOUTHWESTERN ELECTRIC POWER COMPANY

Flint Creek No. 1, Siloam Springs, AR	Belle Ayr/Eagle Butte (1.8 myn tons)
Welsh No. 1, Cason, TX	Belle Ayr/Eagle Butte (1.8 myn tons)
Welsh No. 2, Cason, TX	Belle Ayr/Eagle Butte (1.8 myn tons)
Welsh No. 3, Cason, TX	Belle Ayr/Eagle Butte (1.8 myn tons)

SOUTHWESTERN PUBLIC SERVICE COMPANY

Harrington No. 1, Amarillo, TX	Black Thunder (1.0 myn tons)
Harrington No. 2, Amarillo, TX	Black Thunder (1.0 myn tons)
Harrington No. 3, Amarillo, TX	Black Thunder (1.0 myn tons)
Tolk No. 1, Earth, TX	Black Thunder (1.5 myn tons)
Tolk No. 2, Earth, TX	Black Thunder (1.5 myn tons)

UNION ELECTRIC COMPANY

Labadie Plant, Labadie, MO	Medicine Bow, Seminoe Nos. 1 and 2 (1.0 myn tons)
Rush Island Plant, Crystal City, MO	Medicine Bow and Rosebud (0.4 myn tons)

UTAH POWER AND LIGHT COMPANY

Naughton No. 1, Kemmerer, WY	Sorensen (0.6 myn tons)
Naughton No. 2, Kemmerer, WY	Sorensen (0.8 myn tons)
Naughton No. 3, Kemmerer, WY	Sorensen (1.1 myn tons)

WESTERN FARMERS ELECTRIC COOPERATIVE

Eastern Oklahoma No. 1, Anadarko, OK	Buckskin (1.2 myn tons)
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WISCONSIN ELECTRIC POWER COMPANY

Oak Creek Plant, Oak Creek, WI	Seminoe No. 2 (0.6 myn tons)
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WISCONSIN POWER AND LIGHT COMPANY

Columbia No. 2, Portage, WI	Belle Ayr/Eagle Butte (1.6 myn tons)
Eggewater No. 5, Sheboygan, WI	Coal Creek (1.0 myn tons)

WISCONSIN PUBLIC SERVICE CORPORATION

Weston No. 3, Rothschild, WI	Black Thunder and Coal Creek (1.0 myn tons)
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SPOT SALES TO POWER PLANTS (1978-1979)

APPALACHIAN POWER COMPANY

J. E. Amos Plant, St. Albans, WV	Belle Ayr
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ARKANSAS POWER AND LIGHT COMPANY

White Bluff No. 1, Redfield, AR Belle Ayr

COMMONWEALTH EDISON COMPANY

Fisk Plant, Chicago, IL Cordero

IOWA SOUTHERN UTILITIES COMPANY

Burlington Plant, Burlington, IA Cordero

NEBRASKA PUBLIC POWER DISTRICT

Sheldon Plant, Hallum, NB Rosebud

OHIO ELECTRIC COMPANY

General J. M. Gavin Plant,  
Gallipolis, OH Belle Ayr

OMAHA PUBLIC POWER DISTRICT

North Omaha Station, Omaha, NB Seminole No. 2; Rosebud

PUBLIC SERVICE OF INDIANA

Wabash River Plant, Terre Haute, IN Belle Ayr

TENNESSEE VALLEY AUTHORITY

Unspecified plants in KY(?) Belle Ayr, Rawhide, Cordero,  
Jacobs Ranch

UNION ELECTRIC COMPANY

? Sioux Plant, West Alton, MO Rawhide

WISCONSIN POWER AND LIGHT COMPANY

Columbia No. 1 or 2, Columbia, WI Cordero

POSSIBLE COAL GASIFICATION PLANTS

TEXACO, INC.

Unnamed plant, Lake DeSmet, WY                      Texaco (1.5 myn tons)

WYOMING COAL GAS COMPANY

Unnamed plant, Douglas, WY                      Rochelle

MAJOR INDUSTRIAL USERS

TRONA

Allied Chemical, Green River, WY                      Elkol (0.6 myn tons)  
FMC Corporation, Green River, WY                      Skull Point (0.5 myn tons)  
Tenneco, Green River, WY                      Leucite Hills (?0.5 myn tons)  
Texasgulf, Green River, WY                      ? Elkol (0.1 myn tons)

SYNTHETIC COKE

FMC Corporation, Kemmerer, WY                      Skull Point (0.2 myn tons)

CEMENT

Ideal Basic Industries, CO, MT,                      Stansbury and Elkol(?)  
NB, WA, and UT                      (0.4 myn tons)  
Monolith Cement Company, Laramie,                      Rosebud (0.2 myn tons)  
WY                      ? Rosebud (0.2 myn tons)  
? Oregon Portland Cement, OR and                      ID

SUGAR PROCESSING

Amalgamated Sugar, ID, OR, and                      Elkol (0.4 myn tons)  
UT                      Big Horn and Rosebud  
Great Western Sugar, MT, NB, and                      (small tonnage)  
CO                      ? Rosebud (small tonnage)  
? Utah Idaho Sugar Company,  
? locations

MISCELLANEOUS

? Deere and Company, IA                      ? Big Horn (small tonnage)  
? Inland Steel, ? locations                      ? Rosebud (small tonnage)  
Monsanto Phosphorous Plant, ID                      Elkol (small tonnage)  
? St. Regis Paper Company, MN                      ? Big Horn (small tonnage)

Miscellaneous municipal and  
domestic users

Big Horn, Black Mountain, Elko,  
Fort Union, Grass Creek, Muddy  
Creek, Roncco, Rosebud, and  
Wyodak

ADDITIONAL NEW CONTRACTS

MISSOURI BASIN POWER PROJECT

Laramie River (unspecified  
units), Wheatland, WY

Rojo Caballos (1.5 myn tons)

SUNFLOWER ELECTRIC COOPERATIVE

Holcom Plant, Garden City, KS

Rojo Caballos (1.1 myn tons)

WESTERN FUELS ASSOCIATION, INC.

Unspecified plants

Rojo Caballos (unspecified)



APPENDIX B

COAL CONTRACTS BY MINE

ABBREVIATIONS

myn = Million  
MW = Megawatt  
FERC = Federal Energy  
Regulatory  
Commission  
MMCFD = Million cubic  
feet/day  
AEP = American Electric  
Power

COAL RESERVES: 1,016 million short tons  
 TOTAL CONTRACTED TONNAGE: 895.4 million short tons  
 MINE CAPACITY: 40 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 37.1 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: BELLE Ayr AND EAGLE BUTTE STRIP MINES (UNDIFFERENTIATED)  
 COMPANY: AMAX COAL COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	Per Ton	
American Electric Power Co.	Unspecified plant in IN and OH:	25 myn tons <sup>1</sup>	?	?	?				May be in effect now; rail rate to Cook barge terminal at Metropolis, IL \$10.32 (1976)
Indiana and Michigan Electric Co.	Breed Plant, Sullivan, IN 400 MW; 1 myn tons/year on line 1976	25 myn tons	1.0 myn tons	25 years	1976-2000		\$14.89 <sup>2</sup> (1977)	68.3¢	Contract announced in 1974; ? intermittent contract after 1977- tonnage may be going to other AEP plants
Indiana and Michigan Electric Co.	? Rockport No. 1, Rockport, IN 1300 MW; 3 myn tons/year Startup in 1982	75 myn tons <sup>1</sup>	3.0 myn tons	25 years	1982-2007				Probable contract although not totally confirmed
Interstate Power Co.	? Rockport No. 2, Rockport, IN 1300 MW; 3 myn tons/year Startup in 1984	75 myn tons <sup>1</sup>	3.0 myn tons	25 years	1984-2009				Probable contract although not totally confirmed
Iowa Power and Light Co.	Lansing Plant, Lansing, IA 322 MW; 0.8 myn tons/year On line in 1977	8 myn tons <sup>1</sup>	0.4 myn tons	20 years	1977-1996		\$19.24 <sup>2</sup> (1977)	110.4¢	Contract announced in 1975; blended with MT and IL coal
	Des Moines No. 2, Des Moines, IA 277 MW; 0.572 myn tons/year On line 1975	4.8 myn tons	0.24 myn tons	20 years	1975-1994		\$15.14 <sup>2</sup> (1977)	92.3¢	Contract announced in 1975

Notes: <sup>1</sup> Estimated      <sup>2</sup> FERC data      <sup>3</sup> Initial contract price without adjustments



COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: BELLE Ayr AND EAGLE BUTTE STRIP MINES (Continued)  
 COMPANY:

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU		
Iowa Power and Light Co.	Council Bluffs No. 3, Council Bluffs, IA 650 MW; 2.3 myn tons/year On line in 1979	46 myn tons	2.3 myn tons	20 years	1978-1997	\$3.84 <sup>1</sup> (1979)	\$11.09 <sup>2</sup> (1979)	66.0¢ (1979)	Contract announced in 1975; 1979 rail rate \$7.25
Iowa Southern Utilities Co.	Burlington Plant, Burlington, IA 207 MW; 0.517 myn tons/years On line in 1975	0.9 myn tons	0.1 myn tons	9 years	1975-1983	\$16.55 <sup>2</sup> (1977)	\$16.55 <sup>2</sup> (1977)	82.1¢	No contract details
Kansas City Power and Light Co.	LaCygne Station, LaCygne, KS 630 MW; 1.8 myn tons/year On line in 1976	36 myn tons	1.8 myn tons	20 years	1976-1995	\$1.90 <sup>3</sup>	\$12.46 <sup>2</sup> (1978)	74.1¢	Contract announced in 1974; plant jointly owned by Kansas City Power & Light and Kansas Gas and Electric Co.
Kansas City Power and Light Co.	Iatan No. 1, Weston, MO 630 MW; 1.8 myn tons/year Startup in 1980	5.4 myn tons	1.8 myn tons	3 years <sup>1</sup>	1979-1982				Contract announced in 1979; plant jointly owned by Kansas City Power & Light (535 MW) and St. Joseph Light & Power Co. (95 MW); 1979 rail rate \$9.34
Kansas Power And Light Co.	Jeffrey No. 1, St. Marys, KS 680 MW; 2.0 myn tons/year On line in 1978	50 myn tons	2.0 myn tons	20 years	1977-1996		\$11.18 <sup>2</sup> (1977)	66.5¢	Contract announced in 1975; plant jointly owned by Kansas Power & Light (435 MW), Kansas Gas & Electric Co. (136 MW),

Notes:

COAL CONTRACT INFORMATION

MINE NAME: BELLE AYE AND EAGLE BUTTE STRIP MINES (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	CONTRACT SPECIFICATIONS		Miscellaneous Comments
							Delivered Price Per Ton	Price Cents/MMBTU	
	Jeffrey No. 2, St. Marys, KS 680 MW; 2.0 myn tons/year Startup in 1980	50 myn tons	2.0 myn tons	20 years	1979-1999				Missouri Public Service Co. (54 MW), and Western Power Division (55 MW); 1977 rail rate \$5.98 (695 miles)
	Jeffrey No. 3, St. Marys, KS 680 MW; 2.0 myn tons/year Startup in 1983	50 myn tons	2.0 myn tons	20 years	1982-2002				See notes above
	Jeffrey No. 4, St. Marys, KS 680 MW; 2.0 myn tons/year Startup in 1985	50 myn tons	2.0 myn tons	20 years	1985-2005				See notes above
Oklahoma Gas and Electric Co.	Muskogee No. 4 and No. 5, Muskogee, OK 1050 MW; 3.0 myn tons/year On line in 1978	?	0.5 myn tons <sup>1</sup>	?	?1978- ?		\$21.95 <sup>2</sup> (1979)	121.6¢	Contract noted in 1978; no contract details; 1976 rail rate \$9.80
Portland General Electric Co.	Carty Plant, Boardman, OR 530 MW; 1.2 myn tons/year Startup in 1980	28.8 myn tons	1.2 myn tons	24 years	1979-1998	\$6.00 <sup>3</sup>			Contract announced in 1975; plant jointly owned by Portland General Electric (424 MW), Bonneville Power Administration (53 MW), and

Notes:

COAL CONTRACT INFORMATION

COAL RESERVES:

MINE NAME: BELLE Ayr AND EAGLE BUTTE STRIP MINES (Continued)

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement)	CONTRACT SPECIFICATIONS							Miscellaneous Comments
		Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	Cents/MMBTU	
Public Service of Colorado	Comanche Plant, Pueblo, CO 660 MW; 2.9 myn tons/year On line in 1973	52 myn tons	2.6 myn tons	20 years	1973-1992	\$2.50 <sup>3</sup>	\$10.26 <sup>2</sup> (1978)	61.1¢	Idaho Power Co. (53 MW) Contract announced in 1972; 1973 rail rate \$4.85
Public Service of Colorado	Pawnee No. 1, Brush County, CO 470 MW; 2.15 myn tons/year Startup in 1980	43 myn tons	2.15 myn tons	20 years	1979-2000				Contract announced in 1975
Public Service of Colorado	Southwestern No. 1, CO 470 MW; 2.15 myn tons/year Startup in 1984	45 myn tons	2.15 myn tons	20 years	1984-2003				Contract noted in 1975
Southwestern Electric Power Co.	Welsh No. 1, Cason, TX 528 MW; 1.75 myn tons/year On line in 1977	42.5 myn tons	1.75 myn tons	25 years	1976-2000	\$5.36 <sup>1</sup> (1979)	\$17.48 <sup>2</sup> (1979)	104.1¢	Contract announced in 1974; 1979 rail rate \$12.12
	Welsh No. 2, Cason, TX 528 MW; 1.75 myn tons/year Startup in 1980	42.5 myn tons	1.75 myn tons	25 years	1979-2004				See note above
	Welsh No. 3, Cason, TX 528 MW; 1.75 myn tons/year Startup in 1982	42.5 myn tons	1.75 myn tons	25 years	1981-2006				See note above

Notes:

COAL CONTRACT INFORMATION  
 MINE NAME: BELLE Ayr AND EAGLE BUTTE STRIP MINES (Continued)  
 COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
Southwestern Electric Power Co.	Flint Creek No. 1, Siloam Springs, AR 528 MW; 1.75 myn tons/year On line in 1978	42.5 myn tons	1.75 myn tons	25 years	1978-2002	\$7.51 <sup>1</sup> (1979)	\$17.75 <sup>2</sup> (1979)	Contract announced in 1974; plant jointly owned by Southwestern Electric Power (264 MW) and Arkansas Electric Coop. (264 MW); 1979 rail rate \$10.24
Wisconsin Power and Light Co.	Columbia No. 2, Portage, WI 527 MW; 1.6 myn tons/year On line in 1978	32 myn tons <sup>1</sup>	1.6 myn <sup>1</sup> tons	20 years <sup>1</sup>	1978-1997	\$19.71 <sup>2</sup> (1979)	117.4¢	Contract noted in 1979; plant jointly owned by Wisconsin Power and Light (280 MW), Wisconsin Public Service Corp. (130 MW), and Madison Gas and Electric Co. (117 MW)
Dairyland Power Coop.	John P. Madgett Plant, Alma, WI 350 MW; 1.0 myn tons/year Start up in 1979	20 myn tons <sup>1</sup>	1.0 myn tons	20 years <sup>1</sup>	1979-1998			Contract noted in 1979, no other details

Notes:

COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: BELLE Ayr AND EAGLE BUTTE MINES (Continued)  
 COMPANY:

BUYER INFORMATION		CONTRACT SPECIFICATIONS					Miscellaneous Comments	
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton		Delivered Price Cents/MMBTU
<u>SPOT SALES</u>								
Appalachian Power Co.	J.E. Amos Plant, St. Albans, WV 2,900 MW; 6.8 myn tons/year On line	0.085 myn tons <sup>1</sup>		Spot	1978-1979	\$5.89- \$6.00 (1978)	\$21.89- \$22.00	Sold during strike; blended with WV coal; shipped through Cook barge terminal at Metropolis, IL
Arkansas Power and Light Co.	White Bluff No. 1, Redfield, AR 700 MW; 2.5 myn tons/year On line			Spot	1979			Noted in 1979; supplied by Cordero and Jacobs Ranch mines; 1979 rail rate \$14.16
Public Service of Indiana	Wabash River Plant, Terre Haute, IN 889 MW; 1.7 myn tons/year On line			Spot	1978-1979		\$29.74 <sup>2</sup>	Sold during strike; blended with IN and KY coals
Ohio Electric Co.	General James M. Gavin Plant, Gallipolis, OH 2,600 MW; 8.1 myn tons/year On line			Spot	1978-1979			Sold during strike; blended with OH, PA, and WV coals; shipped through Cook barge terminal at Metropolis, IL
Tennessee Valley Authority	Unspecified plants	0.2 myn tons <sup>1</sup>		Spot	1978-1979			Sold during strike

Notes:

COAL CONTRACT INFORMATION

MINE NAME: ANTELOPE STRIP MINE

COMPANY: ANTELOPE COAL COMPANY

COAL RESERVES: 225 million short tons

TOTAL CONTRACTED TONNAGE: 15.7 million short tons

MINE CAPACITY: 10 million short tons

CONTRACTED ANNUAL PRODUCTION: 0.8 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
Platte River Power Authority	Rawhide No. 1, Fort Collins, CO 230 MW; 0.8 myn tons/year Startup in 1985	15.7 myn tons	0.8 myn tons	20 years	1985-2004	\$7.80 <sup>1</sup>	\$11.64 <sup>1</sup>	68.5¢ Contract announced in 1978; plant status unclear

Notes: 1 Initial contract price without adjustments

COAL CONTRACT INFORMATION  
 MINE NAME: HANNA SOUTH STRIP MINE  
 COMPANY: ARCH MINERAL CORPORATION

COAL RESERVES: 6.1 million short tons  
 TOTAL CONTRACTED TONNAGE: 6.1 million short tons  
 MINE CAPACITY: 0.61 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 0.61 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Iowa Public Service Co.	?George Neal No. 3 and/or No. 4, Sioux City, IA 1,096 MW; 2.6 myn tons/year On line in 1978 and 1979	6.1 myn tons	0.61 myn tons	10 years	1983-1992			Coal will be sold to Energy Development Co., which will ship coal; contract announced in 1978; some tonnage also supplied by Medicine Bow mine; Hanna South may not open before 1981

Notes:

COAL CONTRACT INFORMATION

MINE NAME: SEMINOLE NO. 1 STRIP MINE

COMPANY: ARCH MINERAL CORPORATION

COAL RESERVES: 32.2 million short tons  
 TOTAL CONTRACTED TONNAGE: 32.2 million short tons  
 MINE CAPACITY: 3.0 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 2.5 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	Cents/MMBTU	
Commonwealth Edison Co.	Waukegan No. 1, Waukegan, IL 816 MW; 1.8 myn tons/year On line	?	0.5 myn tons <sup>1</sup>	?	1973-1990 <sup>1</sup>		\$18.99 <sup>2</sup> (1978)	97.9¢	Contract details unknown; coal also supplied by Big Horn mine and a MT mine
Commonwealth Edison Co.	Dixon No. 4 and No. 5, Dixon, IL 119 MW; 0.17 myn tons/year Apparently retired in 1978	?	0.2 myn tons <sup>1</sup>	?	1973-1978(?)		\$18.72 <sup>2</sup> (1978)	96.5¢	Contract details unknown, but may have ended in 1978 with retirement of plant
Kansas City Power and Light Co.	LaCygne-Linn County Plant, LaCygne, KS 1,454 MW; 3.2 myn tons/year On line	?	0.5 myn tons <sup>1</sup>	?	1973-1990 <sup>1</sup>		\$12.23 <sup>2</sup> (1977)	63.7¢	Contract details unknown; blended with KS and MT coal
Kansas City Power and Light Co.	Hawthorne Station, Kansas City, MO 856 MW; 1.2 myn tons/year On line	?	0.5-0.8 myn tons <sup>1</sup>	?	1973-1990 <sup>1</sup>		\$11.92- \$12.29 <sup>2</sup> (1978)	59.6¢- 64.0¢	Contract details unknown; blended with OK and AR; 1977 rail rate \$4.84
Nebraska Public Power District	Sheldon Plant, Hallam, NB 225 MW; 0.5 myn tons/year On line	?	0.1 myn tons <sup>1</sup>	?	?-1990 <sup>1</sup>		\$26.81 <sup>2</sup> (1978)	135.4¢	Contract details unknown; blended with OK and UT coals

Notes: 1 Estimated 2 FERC data



COAL CONTRACT INFORMATION

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE NAME: SEMINOE NO. 1 STRIP MINE (Continued)

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

COMPANY:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Northern Indiana Public Service Co.	R.M. Schahfer No. 14, Wheatfield, IN 431 MW; 0.8 myn tons/year On line	?	0.2 myn tons	?	?-1990 <sup>1</sup>		\$33.82 <sup>2</sup> (1978)	165.8¢ Contract details unknown; blended with IN coal
Union Electric Co.	Labadie Plant, Labadie, MO 2,220 MW; 5.5 myn tons/year On line	?	0.5 myn tons	?	?-1990 <sup>1</sup>		\$34.75 <sup>2</sup> (1978)	177.2¢ Contract details unknown; blended with IL, CO, NM, and UT coals also coal from Seminole No. 2, Medicine Bow, and Rawhide mines

Notes:

COAL RESERVES: 39.5 million short tons  
 TOTAL CONTRACTED TONNAGE: 39.5 million short tons  
 MINE CAPACITY: 3.0 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 3.0 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: SEMINOE NO. 2 STRIP MINE (includes Seminole North and Seminole West)  
 COMPANY: ARCH MINERAL CORPORATION

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
Commonwealth Edison Co.	Joliet Plant, Joliet, IL 1790 MW; 3.3 myn tons/year On line	?	0.4 myn tons <sup>1</sup>	?	?-1990 <sup>1</sup>		\$21.76 <sup>2</sup> (1978)	101.7¢ Contract details unknown; also supplied by Big Horn and Prospect Point mines; blended with IL coal
Illinois Power Co.	Baldwin Plant, Baldwin, IL 1,815 MW; 4.6 myn tons/year On line	?	0.2 myn tons <sup>1</sup>	?	?-1990 <sup>1</sup>			May not be an Arch contract; blended with IL coal
Kansas City Power and Light Co.	Montrose Plant, Clinton, MO 546 MW; 1.5 myn tons/year On line	?	0.4 myn tons <sup>1</sup>	?	?-1990 <sup>1</sup>			May not be an Arch contract; blended with MO coal
Northern Indiana Public Service Co.	R.M. Schahfer No. 14, Wheatfield, IN 431 MW; 0.8 myn tons/year On line	?	0.6 myn tons <sup>1</sup>	?	1972-1990 <sup>1</sup>		\$34.87 <sup>2</sup> (1979)	164.5¢ Contract details unknown; blended with IN coal; also supplied by Seminole No. 1 mine
Northern Indiana Public Service Co.	Dean H. Mitchell Plant, Gary, IN 500 MW; 1.5 myn tons/year On line	?	0.4 myn tons <sup>1</sup>	?	?-1990 <sup>1</sup>		\$27.83 <sup>2</sup> (1977)	133.8¢ Contract details unknown; blended with IL, UT, and CO coals; also supplied by Medicine Bow mine; 1977 rail rate \$16.88

Notes: 1 Estimated 2 FERC data

COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: SEMINOE NO. 2 STRIP MINE (Continued)  
 COMPANY:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
Northern Indiana Public Service Co.	Michigan City Station, Michigan City, IN 670 MW; 1.5 myn tons/year On line	?	0.3 myn tons	?	?-1900 <sup>1</sup>		\$34.13 <sup>2</sup> (1979)	164.1¢ Contract details unknown; blended with IL coal
Union Electric Co.	Labadie Plant, Labadie, MO 2,200 MW; 5.5 myn tons/year On line	?	0.2 myn tons	?	?-1900 <sup>1</sup>		\$35.11 <sup>2</sup> (1977)	165.6¢ Contract details unknown; blended with IL, CO, NM, and UT coals; also supplied by Seminoe No. 1, Medicine Bow, and Rawhide mines
Wisconsin Electric Power Co.	Oak Creek Plant, Oak Creek, WI 1516 MW; 2.8 myn tons/year On line	?	0.5-0.75 myn tons	?	1973-1990 <sup>1</sup>			Contract details unknown; blended with IL, KY, IN, and UT coals; 1977 rail rate \$9.28

Notes:

COAL CONTRACT INFORMATION

MINE NAME: SEMINOLE NO. 2 STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
<p><u>SPOT SALES</u> Omaha Public Power District</p>	<p>North Omaha Station, Omaha, NB 630 MW; 1.3 myn tons/year On line</p>	0.3 myn tons	0.3 myn tons	Short	1978 - 1979		<p>\$28.51<sup>2</sup> (1979) 135.8¢</p>	Also supplied by Rosebud mine

Notes:

COAL RESERVES: 333 million short tons  
 TOTAL CONTRACTED TONNAGE: 80 million short tons  
 MINE CAPACITY: 10 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 4 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: COAL CREEK STRIP MINE  
 COMPANY: ARCO COAL COMPANY

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement)	CONTRACT SPECIFICATIONS						Miscellaneous Comments
		Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Start-up and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/ MMBTU	
Lower Colorado River Authority	Sam K. Seymour Jr. No. 1, (Fayette No. 1), La Grange, TX; 550 MW; 1.8 myn tons/year Start-up in 1979	17 myn tons	1.0 myn tons	17 years	1982-1998			Contract announced in 1978 with Black Thunder mine supplying coal until Coal Creek comes on line; some coal supplied by MT; plant jointly owned by Lower Colorado River Auth. (275 MW) and City of Austin (275 MW)
Wisconsin Power and Light Co.	Sam K. Seymour Jr. No. 2 (Fayette No. 2), La Grange, TX; 550 MW; 1.8 myn tons/year Start-up in 1980	19 myn tons	1.0 myn tons	19 years	1982-2000			See notes above
Wisconsin Public Service Corp.	Edgewater No. 5, Sheboygan, WI; 400 MW; 1.0 myn tons/year Start-up in 1983 Weston No. 3, Rothschild, WI; 300 MW; 1.0 myn tons/year Start-up in 1982	20 myn tons	1.0 myn tons	20 years	1983-2002			Contract announced in 1978
		24 myn tons	1.0 myn tons	24 years	1982-2005			Contract announced in 1977 with Black Thunder mine supplying coal until Coal Creek comes on line

Notes:

COAL RESERVES: 15 million short tons  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY: 0.5 million short tons  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: PSO NO. 1 STRIP MINE  
 COMPANY: ASH CREEK MINING COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS					Miscellaneous Comments	
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton		Delivered Price Cents/MMBTU
Public Service Company of Oklahoma	Northeastern No. 3, Oologah, OK 450 MW; 2.1 myn tons/year Startup in 1980(?)	15 myn tons	0.5 myn tons	34 years	?1980-2013			Contract initially for Unit No. 3 as announced in 1978; plant jointly owned by Public Service Co. of OK (350 MW) and West Texas Utilities (100 MW); delays in securing a mining permit make the opening of this mine questionable; mine is apparently for sale; Jacobs Ranch mine currently filling contract requirements

Notes:

COAL CONTRACT INFORMATION

MINE NAME: RONCCO UNDERGROUND MINE

COMPANY: BECOR

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
Local domestic market			39 tons					Production very intermittent

Notes:

COAL RESERVES: Est. 28 million short tons  
 TOTAL CONTRACTED TONNAGE: Est. 28 million short tons  
 MINE CAPACITY: 2.8 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 2.2-2.8 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: BIG HORN NO. 1 STRIP MINE  
 COMPANY: BIG HORN COAL COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments	
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton		
							Cents/MMBTU		
Commonwealth Edison Co.	Joliet No. 5, Joliet, IL 85 MW; 0.1 myn tons/year ?Retired in 1978	?	?0.10 myn tons <sup>1</sup>	?	Pre-1973-?		155.2¢	\$28.56 <sup>2</sup> (1978)	No contract details, but Big Horn has shipped coal to Commonwealth Edison since before 1973; Joliet No. 5 (85 MW) retired in 1978; blended with IL coal; also supplied by Seminoe No. 2 and Prospect Point mines
Commonwealth Edison CO.	Will County Plant, Joliet, IL 1270 MW; 2.6 myn tons/year On line	?	0.10 myn tons <sup>1</sup>	?	?Pre-1973-?		180.8¢	\$33.27 <sup>2</sup> (1978)	No contract details, but probably began prior to 1973; blended with ? IL coal
Commonwealth Edison Co.	Waukegan No. 5, Waukegan, IL 122 MW; 0.2 myn tons/year ?Retired in 1979	?	0.20 myn tons <sup>1</sup>	?	?Pre-1973- 1979(?)		155.9¢	\$28.69 <sup>2</sup> (1978)	Retired this plant in 1979 therefore contract may have expired; possibly supplying coal to other Waukegan units; blended with ? IL coal; also supplied by Seminoe No. 1; 1979 rail rate \$16.68

Notes: 1 Estimated 2 FERC data 3 Keystone Coal Industry Manual, 1978



COAL CONTRACT INFORMATION  
 MINE NAME: BIG HORN NO. 1 STRIP MINE (Continued)  
 COMPANY:  
 COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	Cents/MMBTU	
Commonwealth Edison Co.	?Crawford Plant, Chicago, IL 600 MW; 1.2 myn tons/year On line	?	?	?	?Pre-1973-1978(?)	\$11.50 <sup>1</sup> (1979)	\$28.41 <sup>2</sup> (1978)	154.4¢	This may only be a spot sale or short contract; blended with ? IL coal
Commonwealth Edison Co. of Indiana	State Line No. 1, Hammond, IN 171 MW; 0.2 myn tons/year ?Retired in 1978	?	0.2 myn tons <sup>1</sup>	?					Retired this plant in 1978 therefore contract may have expired; possibly supplying coal to other State Line units, blended with ? IL coals; 1979 rail rate \$16.92
Northern States Power Co.	Lawrence Plant, Sioux Falls, SD 48 MW; 0.03 myn tons/year On line	?	0.03 myn tons <sup>1</sup>	?	Pre-1973-?		\$23.00 <sup>2</sup> (1977)	122.5¢	Contract details unknown but started before 1973
Northwestern Public Service Co.	Aberdeen No. 3, Aberdeen, SD 7.5 MW; 0.015 myn tons/year ?Retired in 1977	?	0.015 myn tons	?	Pre-1973-1977		\$25.72 <sup>3</sup> (1977)	137¢	Plant retired in 1977, therefore contract now over
Northwestern Public Service Co.	Mitchell No. 3, Mitchell, SD 7.5 MW; 0.02 myn tons/year ?Retired in 1978	?	0.02 myn tons	?	Pre-1973-1978		\$24.97 <sup>3</sup> (1977)	133¢	Plant ? retired in 1978, therefore contract may be over

Notes:

COAL CONTRACT INFORMATION

MINE NAME: BIG HORN NO. 1 STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	
Great Western Sugar Co.	Plants in NB and MT	?	0.01 myn tons <sup>1</sup>	?	Pre-1973-?			Contract details unknown
? Saint Regis Paper Co.	?Sartell Plant, Sartell, MN 0.007 myn tons/year	?	0.007 myn tons <sup>1</sup>	?				?Contract
? Deere and Co.	?Dubuque Plant, Dubuque, IA 0.02 myn tons/year	?	0.02 myn tons <sup>1</sup>	?				?Contract
Veterans Administration	Sheridan Medical Center, Sheridan, WY 0.006 myn tons/year	0.006 myn tons	0.006 myn tons	1 year	1979-1980	\$20.00 (1979)	\$29.29 (1979)	One year contract
Domestic	Unspecified, but mostly local		0.05 myn tons <sup>1</sup>					Variable
Industrial	Unspecified		0.2-1.3 myn tons <sup>1</sup>					Variable short contracts and spot sales

Notes:

COAL RESERVES: 145.6 million short tons  
 TOTAL CONTRACTED TONNAGE: 141.4 million short tons  
 MINE CAPACITY: 7.0 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 6.0 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: BLACK BUTTE STRIP MINE  
 COMPANY: BLACK BUTTE COAL COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS						
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	Miscellaneous Comments
Commonwealth Edison Co.	Unspecified plant probably in IL	15.0 myn tons	3.0 myn tons	5 years	1979-1984			Contract derived from an agreement between Idaho Power Co. and Commonwealth Edison; Idaho Power has option to terminate agreement in 1984-1985; contract announced in 1976
Commonwealth Edison Co.	Unspecified plant probably in IL	60.0 myn tons	3.0 myn tons	20 years	?1979-1998			Contract announced in 1977, no other details; this second Commonwealth Edison contract may be an error with this contract starting in 1985 after the above contract expires
Idaho Power Co.	?Pioneer Plant, unspecified location, ID	66.4 myn tons	3.0 myn tons	20 years	?1984-2003			Contract announced in 1974, but Pioneer plant site denied; Idaho Power has since sold the initial tonnage (1979-1984) to Commonwealth Edison; option to resume contract if a plant is sited

Notes: 1 Estimated

COAL RESERVES: 1.8 million short tons  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: BLACK MOUNTAIN NO. 1 STRIP MINE  
 COMPANY: BLACK MOUNTAIN COAL COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Veterans Administration	Sheridan Medical Center, Sheridan, WY 0.006 myn tons/year	0.006 myn tons	0.006 myn tons	1 year	1978-1979	\$18.20 (1978)	\$20.09	Contract awarded in August 1978 for 1 year only; lost contract in 1979
Domestic	Unspecified, but mostly local		0.01 myn tons					Variable

Notes: 1 Estimated

COAL RESERVES: 250 million short tons  
 TOTAL CONTRACTED TONNAGE: 250 million short tons  
 MINE CAPACITY: 7.5 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 7.15 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: JIM BRIDGER STRIP MINE  
 COMPANY: BRIDGER COAL COMPANY

Company Name	BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	Cents/MMBTU	
Pacific Power and Light Co.	Jim Bridger No. 1, Point of Rocks, WY 500 MW; 1.8 myn tons/year On line in 1974	61.2 myn tons <sup>1</sup>	1.8 myn tons	34 years <sup>1</sup>	1974-2007 <sup>1</sup>		\$6.35 <sup>2</sup> (1978)	35.0¢	Contract announced in 1973; plant jointly owned by Pacific Power & Light (335 MW) and Idaho Power Co. (165 MW)
	Jim Bridger No. 2, Point of Rocks, WY 500 MW; 1.8 myn tons/year On line in 1975	61.2 myn tons <sup>1</sup>	1.8 myn tons	34 years	1975-2008 <sup>1</sup>		\$6.35 <sup>2</sup> (1978)	35.0¢	See notes above
	Jim Bridger No. 3, Point of Rocks, WY 500 MW; 1.8 myn tons/year On line in 1976	61.2 myn tons <sup>1</sup>	1.8 myn tons	34 years	1976-2010 <sup>1</sup>		\$6.35 <sup>2</sup> (1978)	35.0¢	See notes above
	Jim Bridger No. 4, Point of Rocks, WY 500 MW; 1.8 myn tons/year On line in 1979	61.2 myn tons <sup>1</sup>	1.8 myn tons	34 years	1979-2012 <sup>1</sup>				See notes above
Prospect Point Coal Co.	Unspecified plant, Commonwealth Edison Co.	5 myn tons	0.5 myn tons	10 years	1977-1986				Prospect Point Tipple sells this coal to Commonwealth Edison Co.; Jim Bridger contract guarantees a minimum of 0.5 myn tons/year

Notes: <sup>1</sup> Estimated <sup>2</sup> FERC data

COAL RESERVES: 287 million short tons  
 TOTAL CONTRACTED TONNAGE: 104 million short tons  
 MINE CAPACITY: 1.5 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 1.5 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: CARBON COUNTY UNDERGROUND MINE  
 COMPANY: CARBON COUNTY COAL COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments	
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton		Cents/MMBTU
Northern Indiana Public Service Co.	R. M. Schahfer No. 15, Wheatfield, IN 527 MW; 1.5 myn tons/year Startup 1979	29.0 myn tons	1.5 myn tons	20 year	1979-1998	\$24.00 <sup>1</sup>	\$55.47 <sup>1</sup>		Contract announced in 1978; unspecified other mine making up contract tonnage until Carbon County is on line
Southern Services Inc.	Unspecified plants	75.0 myn tons <sup>2</sup>							Southern Services reportedly controls 3/4 of Carbon County's reserves, but has not yet announced its plans-may have dropped this option; Georgia Power Co's Scherer Plant is scheduled from 1982, 1983, 1984, and 1987 and is one possible user

Notes: 1 Unsubstantiated prices      2 Estimated

COAL RESERVES: 460 million short tons  
 TOTAL CONTRACTED TONNAGE: 85.2 million short tons  
 MINE CAPACITY: 12 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 3.9 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: CABALLO STRIP MINE  
 COMPANY: CARTER MINING COMPANY

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	CONTRACT SPECIFICATIONS		Miscellaneous Comments
							Delivered Price Per Ton	Cents/MMBTU	
Missouri Basin Power Project	Laramie River No. 3, Wheatland, WY 500 MW; 2.0 myn tons/year Startup in 1982	53.6 myn tons	2.1 myn tons <sup>1</sup>	25 years	1982-2006				Contract announced in 1978; negotiated through Western Fuels Assoc., Inc.; plant jointly owned by Basin Electric Power Cooperative (210 MW), Tri-State Generation and Transmission Assoc. (120 MW), Missouri Basin Municipal Power Agency (85 MW), Lincoln Electric System (65 MW), Heartland Consumers Power Agency (15 MW) and Wyoming Municipal Power Agencies (5 MW)
Omaha Public Power District	Nebraska City No. 1, Nebraska City, NE 575 MW; 1.8 myn tons/year Startup in 1979	31.6 myn tons	1.8 myn tons	20 years	1979-1998	\$5.26 <sup>2</sup>	\$12.64 <sup>2</sup>	74.3¢ <sup>1</sup>	Contract announced in 1975; estimated 1979 rail rate \$7.38

Notes: 1 Estimated 2 Initial contract price without adjustments

COAL RESERVES: 600 million short tons  
 TOTAL CONTRACTED TONNAGE: 210 million short tons  
 MINE CAPACITY: 12 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 7.8 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: RAWHIDE STRIP MINE  
 COMPANY: CARTER MINING COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
Indiana and Michigan Electric Power (AEP)	?Tanners Creek Plant, Lawrenceburg IN 1015 MW; 2.0 myn tons/year On line in 1977	60 myn tons	2.0 myn tons	30 years	1977-2006		\$15.74 <sup>1</sup> (1977)	Contract may not be for this plant although some coal shipped in 1977; shipped through Cook barge terminal at Metropolis, IL; maybe going to other AEP plants; contract announced in 1974 did not specify plant name
Indiana and Michigan Electric Power (AEP)	?Project 2602 No. 1, ? location, ? IN 1300 MW; 3.0 myn tons/year Startup in 1983	75 myn tons <sup>2</sup>	3.0 myn tons	30 years <sup>2</sup>	1982-2011 <sup>2</sup>			May not be part of 1974 contract but this plant could account for committed tonnage
Indiana and Michigan Electric Power (AEP)	?Unspecified plant or plants	15 myn tons <sup>2</sup>						Balance of tonnage committed in 1974 contract; could also be used to extend length of other contracts
Iowa Public Service Co.	George Neal No. 4 (Sergeant Bluff) Salix, IA 576 MW; 2.0 myn tons/year Startup in 1979	40 myn tons	2.0 myn tons	20 years	1979-1998			Five year contract with 15 year option; contract announced in 1978; plant jointly owned by Iowa Public Service Co. and Corn Belt Coop. (278 MW),

Notes: <sup>1</sup> FERC data <sup>2</sup> Estimated



COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: RAWHIDE STRIP MINE (Continued)  
 COMPANY:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton MMBTU	
Kansas City Board of Public Utilities	Nearman No. 1, Kansas City, KS 235 MW; 0.8 myn tons/year Startup in 1980	20 myn tons	0.8 myn tons	25 years	1980-1999			Interstate Power Co. (100 MW), Northwestern Public Service Co. (50 MW), Northwest Iowa Power Coop. (100 MW) and various municipalities; 1979 rail rate \$10.69  Contract negotiated by Western Fuels Assoc., Inc. and announced in 1978; Unit 2 (310 MW) planned for 1986, but coal supplier unknown

Notes:

COAL CONTRACT INFORMATION

MINE NAME: RAWHIDE STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
<p><u>SPOT SALES</u> Tennessee Valley Authority Union Electric Co.</p>	<p>Unspecified plants ?Sioux Plant, West Alton, MO 904 MW; 2.0 myn tons/year On line</p>	0.2 myn tons <sup>2</sup>		short	1978-1979			Spot sale during strike
				short	1978-1979		\$22.30 <sup>1</sup> (1978) 136.0¢	Spot sale during strike

Notes:

COAL RESERVES: 516 million short tons  
 TOTAL CONTRACTED TONNAGE: 217.3 million short tons  
 MINE CAPACITY: 24 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 10.4 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: CORDERO STRIP MINE  
 COMPANY: CORDERO MINING COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	Cents/MMBTU	
?Eastern Iowa Light and Power Coop.	Montpelier expansion, Montpelier, IA 25 MW; 0.09 myn tons/year ?Startup in 1979	1.8 myn tons <sup>1</sup>	0.09 myn tons	20 years <sup>1</sup>	?1979-1998				It would appear that this expansion may have been included as part of the Ottumwa No. 1 plant and that this contract doesn't exist
Iowa-Illinois Gas and Electric Co.	Louisa Plant, Muscatine, IA 650 MW; 2.3 myn tons/year Startup in 1983	46.0 myn tons <sup>1</sup>	2.3 myn tons	20 years	1982-2001				Contract announced in 1978; plant jointly owned by Iowa-Illinois Gas and Electric Co. (300 MW), Iowa Power and Light (211 MW), Iowa Public Service (100 MW), Eastern Iowa Light and Power (30 MW), and various municipalities
Iowa-Illinois Gas and Electric Co.	Unspecified plant or plants	14.0 myn tons <sup>1</sup>							May be for another plant or reserved to extend the Louisa contract beyond 20 years
Iowa Southern Utilities Co.	Ottumwa No. 1, Chillicothe, IA 675 MW; 2.0 myn tons/year Startup in 1981	40.0 myn tons	2.0 myn tons	20 years	1980-1999				Contract announced in 1978; plant jointly owned by Iowa Southern Utilities (225 MW), Iowa Public Service Co. (125 MW), Iowa-

Notes: 1 Estimated 2 FERC data

COAL CONTRACT INFORMATION

MINE NAME: CORDERO STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	Price Cents/MMBTU	
Missouri Basin Power Project	Laramie River No. 1, Wheatland, WY 500 MW; 2.0 myn tons/year Startup in 1980	30.0 myn tons	1.5 myn tons <sup>1</sup>	20 years	1979-1998				Illinois Gas and Electric (125 MW), Iowa Power and Light (100 MW), and Iowa Electric Light and Power (100 MW).  Contract announced in 1975; negotiated by Western Fuels Assoc., Inc.; plant jointly owned by Basin Electric Power Cooperative (210 MW), Tri-State Generation and Transmission Assoc. (120 MW), Missouri Basin Municipal Power Agency (85 MW), Lincoln Electric System (65 MW), Heartland Consumers Power Agency (15 MW), and Wyoming Municipal Power Agencies (5 MW)
San Antonio Public Service Board	Laramie River No. 2, Wheatland, WY 500 MW; 2.0 myn tons/year Startup in 1980	30 myn tons	1.5 myn tons <sup>1</sup>	20 years	1980-1999				See notes above
	J. T. Deely No. 1, Elmdorf, TX 418 MW; 1.5 myn tons/year On line in 1976	27.8 myn tons <sup>1</sup>	1.5 myn tons <sup>1</sup>	20 years	1976-1995	\$6.51 <sup>1</sup> (1979)	\$25.55 <sup>2</sup> (1979)	153.9¢	Contract announced in 1973; 1979 rail rate \$19.04

Notes:

COAL CONTRACT INFORMATION

MINE NAME: CORDERO STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
San Antonio Public Service Board	J. T. Deely No. 2, Elmendorf, TX; 418 MW; 1.5 myn tons/year On line in 1978	27.8 myn tons <sup>1</sup>	1.5 myn tons	20 years	1978-1997	\$6.51 <sup>1</sup> (1979)	\$25.55 <sup>2</sup> (1979)	Contract announced in 1973; 1979 rail rate \$19.04

Notes:

COAL CONTRACT INFORMATION

MINE NAME: CORDERO STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement) On line	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU Per Ton	
<u>SPOT SALES</u> Commonwealth Edison Co.	Fisk Plant, Chicago, IL 470 MW; 0.83 myn tons/year On line	0.02 myn tons <sup>1</sup>		short	1978-1979		\$22.75 <sup>2</sup> (1978)	135.4¢ During strike
Iowa Southern Utilities Co.	Burlington Plant, Burlington, IA 516 MW; 0.52 myn tons/year On line	0.01 myn tons <sup>1</sup>		short	1978-1979		\$19.85 <sup>2</sup> (1978)	119.8¢ During strike
Tennessee Valley Authority	Unspecified plants	0.2 myn tons <sup>1</sup>		short	1978-1979		\$23.54 <sup>2</sup> (1978)	141.8¢ During strike
Wisconsin Power and Light Co.	Columbia No. 1 and/or No. 2, Columbia, WI 1,054 MW; 3.2 myn tons/year On line	0.032 myn tons <sup>1</sup>		short	1979		\$18.50 <sup>2</sup> (1979)	110.1¢ March 1979

Notes:

COAL RESERVES: 13.8 million short tons  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY: 1.2 million short tons  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: FORT UNION STRIP MINE  
 COMPANY: DELZER CONSTRUCTION COMPANY, INC. AND FRONTIER COAL

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/ MMBTU	
Domestic and industrial	Unspecified		0.3-1.0 1 myn tons <sup>1</sup>					Mainly local users in 1979, but some midwest contracts will start in 1980

Notes: 1 Estimat. J

COAL RESERVES: 10 million short tons<sup>1</sup>  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY: 0.7 million short tons  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: GRASS CREEK STRIP MINE  
 COMPANY: DUSKY DIAMOND COAL COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS						
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	Miscellaneous Comments
Domestic	Unspecified, but mostly local		0.005 myn tons					

Notes: 1 Company estimate



COAL CONTRACT INFORMATION

MINE NAME: MUDDY CREEK STRIP MINE

COMPANY: EAST TENNESSEE FUEL COMPANY

COAL RESERVES: 0.3 million short tons

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY: 0.1 million short tons

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Domestic Industrial and/or utility	Unspecified Unspecified buyer in Chicago, IL		50 tons 0.1 myn tons <sup>1</sup>	3 years	1980 <sup>1</sup> (?) - 1982			Local users Not confirmed

Notes: 1 Company information

COAL RESERVES: 400 million short tons  
 TOTAL CONTRACTED TONNAGE: 250 million short tons  
 MINE CAPACITY: 5 million short tons<sup>1</sup>  
 CONTRACTED ANNUAL PRODUCTION: 5 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: CARBON BASIN STRIP AND UNDERGROUND MINE  
 COMPANY: EDISON DEVELOPMENT COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	
Commonwealth Edison Co.	?Powerton Plant, Pekin, IL 1133 MW; 4.24 myn tons/year On line	160 myn tons <sup>2</sup>	4.0 myn tons <sup>2</sup>	20 years	Mid-1980's- 2000's <sup>2</sup>			Plans announced in 1978; Decker mine in MT presently supplies this plant, but Carbon Basin could be future supplier
Commonwealth Edison Co.	?Unspecified plant or plants in IL	40 myn tons <sup>2</sup>	1.0 myn tons <sup>2</sup>	20 years	?			No other details; one press release stated a market in New York as well

Notes: <sup>1</sup> This company estimate seems too high for an underground mine complex <sup>2</sup> Estimated

COAL CONTRACT INFORMATION

MINE NAME: EL PASO STRIP MINE

COMPANY: EL PASO NATURAL GAS COMPANY

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement)	CONTRACT SPECIFICATIONS					Miscellaneous Comments
		Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	
Missouri Basin Power Project	Laramie River No. 1-3, Wheatland, WY 1500 MW; 6 myn tons/year Startup in 1979 and 1982	?	?	?	?	?	Originally signed Letter of Intent to supply coal to this plant; present status of letter and mine unclear; agreement announced in 1977; agreement negotiated by Western Fuels Assoc., Inc.
Western Fuels Assoc., Inc.	Unspecified plant or plants	?	?	?	?	?	No other details but announced in 1977

Notes:

COAL CONTRACT INFORMATION

MINE NAME: CONTINENTAL DIVIDE STRIP MINE

COMPANY: ENERGY DEVELOPMENT COMPANY AND ROCKY MOUNTAIN ENERGY COMPANY

COAL RESERVES: 10 million short tons<sup>1</sup>

TOTAL CONTRACTED TONNAGE: 10 million short tons

MINE CAPACITY: 0.5 million short tons

CONTRACTED ANNUAL PRODUCTION: 0.5 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	Price Cents/ MMBTU	
Iowa Public Service Co.	Unspecified plants	10 myn tons	0.5 myn tons	20 years	?				Announced in 1976, but probably a Letter of Agreement rather than a contract

Notes: <sup>1</sup> Includes some unleased federal coal

COAL RESERVES: See Vanuaird No. 2 mine  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY: 1.0 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 1.0 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: ENERGY STRIP PITS  
 COMPANY: ENERGY DEVELOPMENT COMPANY

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement) On line	CONTRACT SPECIFICATIONS						Miscellaneous Comments	
		Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU		
Iowa Public Service Co.	George Neal No. 2, Sioux City, IA 325 MW; 1.0 myn tons/year On line	?	0.7 myn tons <sup>1</sup>	?	1970- ?		\$28.04 <sup>2</sup> (1979)	141.6¢	No details
Iowa Public Service Co.	Maynard Plant, Waterloo, IA 81 MW; 0.07 myn tons/year On line	?	0.07 myn tons	?	?		\$35.11 <sup>2</sup> (1978)	172.1¢	Possibly short term or spot sale
Iowa Public Service Co.	?Unspecified plant or plants	?	0.2 myn tons <sup>1</sup>	?	?				No details

NOTE:  
 Energy Development plans to phase out this strip mining and produce all tonnage from the Vanguard No. 2 underground mine

Notes: 1 Estimated 2 FERC data

COAL CONTRACT INFORMATION  
 MINE NAME: NORTH KNOBS STRIP MINE  
 COMPANY: ENERGY DEVELOPMENT AND ROCKY MOUNTAIN ENERGY COMPANY  
 COAL RESERVES: 3.2 million short tons  
 TOTAL CONTRACTED TONNAGE: 3.2 million short tons  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION: 0.75 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Iowa Public Service Co.	Unspecified plants in IA	?	0.75 myn tons	?	?1980's			Commitment announced in 1978, but may only be a Letter of Intent

Notes:

COAL RESERVES: 80 million short tons  
 TOTAL CONTRACTED TONNAGE: 80 million short tons  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION: 2 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: RED RIM STRIP MINE  
 COMPANY: ENERGY DEVELOPMENT COMPANY AND ROCKY MOUNTAIN ENERGY COMPANY

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement)	CONTRACT SPECIFICATIONS						Miscellaneous Comments
		Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/ MMBTU	
Iowa Public Service Co.	Unspecified plants in IA	80 myn tons	2.0 myn tons	40 years	?1985-2024 <sup>1</sup>			Commitment announced in 1976, but may only be a Letter of Intent

Notes: 1 Estimated

COAL RESERVES: 21 million short tons<sup>1</sup>  
 TOTAL CONTRACTED TONNAGE: 21 million short tons  
 MINE CAPACITY: 0.5 million short tons<sup>2</sup>  
 CONTRACTED ANNUAL PRODUCTION: 0.5 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: VANGUARD NO. 2 UNDERGROUND MINE  
 COMPANY: ENERGY DEVELOPMENT COMPANY

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement)	CONTRACT SPECIFICATIONS						Miscellaneous Comments	
		Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU		
Iowa Public Service Co.	George Neal No. 2, Sioux City, IA 325 MW; 1.0 myn tons/year On line	21.0 myn tons	0.3-0.5 myn tons	20 years	1975-1994		\$28.04 <sup>3</sup> (1979)	141.6¢	Commitment began in 1970, but production was from other mines now closed

Notes: <sup>1</sup> Strippable and deep reserves combined      <sup>2</sup> Plan to expand capacity to 1 myn tons/year      <sup>3</sup> FERC data



COAL CONTRACT INFORMATION

MINE NAME: SKULL POINT STRIP MINE

COMPANY: FMC CORPORATION

COAL RESERVES: 36 million short tons

TOTAL CONTRACTED TONNAGE: 14 million short tons

MINE CAPACITY: 1.5 million short tons

CONTRACTED ANNUAL PRODUCTION: 0.75 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments	
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton		Cents/MMBTU
FMC Corp.	FMC Trona Refinery, Green River, WY 4.7 myn tons of trona/year, 0.5 myn tons of coal/year	10 myn tons	0.5 myn tons	20 years	1976-1995	\$11.00 <sup>1</sup>			Contract announced in 1974
FMC Corp.	FMC Process Coke Plant, Kemmerer, WY 90,000 tons of coke/year; 0.2 myn tons of coal/year	4 myn tons <sup>1</sup>	0.2 myn tons	20 years <sup>1</sup>	1976-1995				Contract announced in 1976
Industrial	Unspecified		0.05 myn tons		1976- ?				No other details

Notes: 1 Estimated

COAL RESERVES: 125 million short tons  
 TOTAL CONTRACTED TONNAGE: 125 million short tons  
 MINE CAPACITY: 3.3 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 3.3 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: DAVE JOHNSTON STRIP MINE  
 COMPANY: GLENROCK COAL COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Pacific Power and Light Co.	Dave Johnston Plant, Glenrock, WY 750 MW; 3.2 myn tons/year	125.0 myn tons	3.3 myn tons	35 years	1958-1992	\$3.40 <sup>1</sup>		All tonnage is dedicated to this plant

Notes: 1 Current valuation set by Ad Valorem Tax Division

COAL CONTRACT INFORMATION

MINE NAME: ELKOL STRIP MINE

COMPANY: KEMMERER COAL COMPANY

COAL RESERVES: See Sorensen Mine

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY: 1.8 million short tons<sup>1</sup>

CONTRACTED ANNUAL PRODUCTION: 1.77 million short tons<sup>1</sup>

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	
Allied Chemical Corp.	Trona Refinery, Green River, WY Trona capacity 3.1 myn tons/year; Coal requirements 0.6 myn tons/year	?	0.6 myn tons	?	1976- ?			Contract announced in 1972; no other details
Amalgamated Sugar Co.	Nampa Factory, Nampa, ID ?capacity; 0.1 myn tons/year <sup>1</sup>	?	0.1 myn tons <sup>1</sup>	?	Pre-1973- ?			Contract details unknown
Amalgamated Sugar Co.	Mini-Cassia Factory, Rupert, ID ?capacity; 0.1 myn tons/year <sup>1</sup>	?	0.1 myn tons <sup>1</sup>	?	Pre-1973- ?			Contract details unknown
Amalgamated Sugar Co.	Nyssa Factory, Nyssa, OR ?capacity; 0.1 myn tons/year <sup>1</sup>	?	0.1 myn tons <sup>1</sup>	?	Pre-1973- ?			Contract details unknown
Amalgamated Sugar Co.	Ogden Plant, Ogden, UT ?capacity; 0.1 myn tons/year <sup>1</sup>	?	0.1 myn tons <sup>1</sup>	?	Pre-1973- ?			Contract details unknown
Ideal Basic Industries, Cement Div.	Devil's Slide Plant, Devil's Slide, UT Cement capacity 0.36 myn tons/year; Coal requirements 0.03 myn tons/year	?	0.03 myn tons <sup>1</sup>	?	Pre-1973- ?			Present status of this contract unknown

Notes: 1 Estimated 2 FERC data

COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: ELKOL STRIP MINE (continued)  
 COMPANY:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Monsanto Co.	Soda Springs Phosphorous Plant, Soda Springs, ID ?capacity: 0.03 myn tons/year	?	0.03 myn tons	?	Pre-1973- ?			Contract details unknown
Nebraska Public Power District	Kramer Plant, Bellevue, NB 105 MW; 0.25 myn tons/year	?	0.25 myn tons	?	1970's- ?		\$25.19- \$25.402 (1978)	Contract details unknown
?Texasgulf, Inc.	Trona Refinery, Green River, WY Trona capacity 5400 tons/day; Coal requirements 0.13 myn tons/year	?	0.13 myn tons	?	?1978- ?			Probable contract, but may still be supplied by Stansbury mine
Miscellaneous domestic and industrial customers	Unspecified and variable, ID, NB, WY, and other states		0.3-0.4 myn tons	variable- short or spot				NOTE: Tonnage estimates to all but the Allied Chemical Corp. plant are estimated as no contract information has ever been re-leased.

Notes:

COAL CONTRACT INFORMATION

MINE NAME: NORTH BLOCK STRIP MINE

COMPANY: KEMMERER COAL COMPANY

COAL RESERVES: 100 million short tons<sup>1</sup>

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY: 1.4 million short tons

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
Utah Power and Light Co.	?Naughton No. 4, Kemmerer, WY 415 MW; 1.4 myn tons/year	54 myn tons <sup>1</sup>	1.4 myn tons	35 years	?1988-2023			Probably only a letter of agreement rather than an actual contract; Naughton No. 4 originally planned for 1978, then delayed to 1982, and then shelved; Utah Power & Light has announced a new plant in 1988, which could be a new unit at Kemmerer. A second new unit is also planned for 1991

Notes: <sup>1</sup> Includes a 10% mining loss

COAL RESERVES: 300 million short tons<sup>1</sup>  
 TOTAL CONTRACTED TONNAGE: 100+ million short tons<sup>1</sup>  
 MINE CAPACITY: 2.5 million short tons<sup>1</sup>  
 CONTRACTED ANNUAL PRODUCTION: 2.5 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: SORENSEN STRIP MINE  
 COMPANY: KEMMERER COAL COMPANY

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement)	CONTRACT SPECIFICATIONS						Delivered Price Cents/ MMBTU	Miscellaneous Comments
		Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton			
Utah Power and Light Co.	Naughton No. 1, Kemmerer, WY 160 MW; 0.6 myn tons/year	24 myn tons <sup>1</sup>	0.6 myn tons <sup>1</sup>	40 years <sup>1</sup>	1963-2003 <sup>1</sup>		\$10.90 <sup>2</sup> (1978)	NOTE: Proposed Naughton No. 4 and No. 5 were scheduled in early 1980's but then shelved; Utah Power and Light has announced two new units for 1988 and 1991. These could be new units at Naughton	
	Naughton No. 2, Kemmerer, WY 220 MW; 0.8 myn tons/year	32 myn tons <sup>1</sup>	0.8 myn tons <sup>1</sup>	40 years <sup>1</sup>	? - 2003 <sup>1</sup>		\$10.90 (1978)		
	Naughton No. 3, Kemmerer, WY 330 MW; 1.1 myn tons/year	44 myn tons <sup>1</sup>	1.1 myn tons <sup>1</sup>	40 years <sup>1</sup>	1971-2011 <sup>1</sup>		\$10.90 (1978)		

Notes: 1 Estimated 2 FERC data

COAL CONTRACT INFORMATION  
 COAL RESERVES: 68 million short tons  
 MINE NAME: CLOVIS POINT STRIP MINE  
 TOTAL CONTRACTED TONNAGE: 15 million short tons  
 COMPANY: KERR-McGEE COAL CORPORATION  
 MINE CAPACITY: 4.5 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 4.0 million short tons

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement)	CONTRACT SPECIFICATIONS						Miscellaneous Comments
		Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/ MMBTU	
Cajun Electric Power Coop- erative	Big Cajun 2, No. 1, New Roads, LA 540 MW; 2.3 myn tons/year Startup in 1980	10.2 myn tons <sup>1</sup>	2.3 myn tons	5 years	1979-1983	\$6.00 <sup>2</sup>		Contract announced in 1976; negotiated through Western Fuels Assoc., Inc.; shipp- ed by rail to St. Louis and then barged to LA  See notes above
	Big Cajun 2, No. 2, New Roads, LA 540 MW; 2.3 myn tons/year Startup in 1981	4.8 myn tons <sup>1</sup>	2.3 myn tons	3 years <sup>1</sup>	1981-1983 <sup>1</sup>			

Notes: <sup>1</sup> Estimated      <sup>2</sup> Estimated from press releases

COAL RESERVES: 319 million short tons  
 TOTAL CONTRACTED TONNAGE: 322.7 million short tons  
 MINE CAPACITY: 14 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 13.2 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: JACOBS RANCH STRIP MINE  
 COMPANY: KERR-McGEE COAL CORPORATION

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
Arkansas Power and Light Co.	White Bluff No. 1, Redfield, AR 700 MW; 2.5 myn tons/year Startup in 1980	50 myn tons	2.5 myn tons	20 years	1980-1999	\$2.00 <sup>1</sup>		Contract announced in 1973; plant jointly owned by Arkansas Power and Light Co. (420 MW), Arkansas Electric Coop. (245 MW), and City of Jonestown (35 MW); a potential customer for the ETSI slurry pipeline; rail costs \$14.02/ton in 1979
	White Bluff No. 2, Redfield, AR 700 MW; 2.5 myn tons/year Startup in 1981	50 myn tons	2.5 myn tons	20 years	1981-2000			See notes above
	Unspecified plant, AR	50 myn tons						
Central Louisiana Electric Co., Inc.	Rodemacher No. 2, Lena, LA 530 MW; 1.75 myn tons/year Startup in 1982	50 myn tons	1.75 myn tons	30 years	1982-2012			This is an option on the original contract; it could be used for another plant or extensions for contracts on units 1 and 2
								Contract announced in 1973; plant jointly owned by Central Louisiana Electric Co. (265 MW) and Lafayette, Louisiana Utility System (265 MW)

Notes: 1 Reportedly original contract price without escalators 2 Estimated 3 Estimated from press releases  
 4 FERC data



COAL CONTRACT INFORMATION

MINE NAME: JACOBS RANCH STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	
Guif States Utilities Co.	Roy S. Nelson No. 5, Lake Charles, LA 540 MW; 2.5 myn tons/year Startup in 1982	50 myn tons	2.5 myn tons	20 years	1981-2000			Contract announced in 1974
Houston Lighting and Power Co.	W. A. Parish No. 6, Thompsons, TX 660 MW; 2.8 myn tons/year On line	8.4 myn tons	2.8 myn tons	5 years	1978-1980	\$6.30 <sup>3</sup>		Contract announced in 1976; status of 20 year option unclear; Spring Creek mine in MT has long term commitment to this unit
	W. A. Parish No. 7, Thompsons, TX 660 MW; 2.8 myn tons/year Startup in 1980	4.3 myn tons	2.8 myn tons	2 years	1979-1980			See notes above
Public Service of Oklahoma	Northeastern No. 3, Oologah, OK 450 MW; 2.0 myn tons/year On line	30 myn tons	2.0 myn tons	15 years	1979-1993		\$21.21 <sup>4</sup> (1979)	Contract announced in 1975; plant jointly owned by Public Service of Oklahoma (350 MW) and West Texas Utilities Co. (100 MW); assumed an extra 10 myn tons has been added to contract to make up for PSO No. 1 mine; rail rate \$11.45/ton in 1979

Notes:

COAL CONTRACT INFORMATION

MINE NAME: JACOBS RANCH STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments	
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	Delivered Price Cents/MMBTU	
Public Service of Oklahoma	Northeastern No. 4, Oologah, OK 450 MW; 2.0 myn tons/year Startup in 1980	30 myn tons	2.0 myn tons	15 years	1980-1994				See notes above

Notes:

COAL CONTRACT INFORMATION

MINE NAME: JACOBS RANCH STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
<u>SPOT SALES</u> Tennessee Valley Authority	Unspecified plants in Kentucky	0.20+ myn tons		short	1978-1979			Spot sale during strike

Notes:

COAL RESERVES: 37.5 million short tons  
 TOTAL CONTRACTED TONNAGE: 37.5 million short tons  
 MINE CAPACITY: 3.3 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 3.0 million short tons

COAL CONTRACT INFORMATION

MINE NAME: MEDICINE BOW STRIP MINE

COMPANY: MEDICINE BOW COAL COMPANY

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement) On line	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	CONTRACT SPECIFICATIONS		Miscellaneous Comments
							Delivered Price Per Ton	Cents/MMBTU	
Iowa Public Service Co.	George Neal No. 3, Sioux City, IA 525 MW; 1.3 myn tons/year On line	?	0.2 myn tons <sup>1</sup>	?	?1975- ?		\$23.46 <sup>-2</sup> \$26.27 <sup>2</sup> (1979)	115.0¢ 127.5¢	Contract noted in 1975; also supplied by Rosebud Coal Sales and Energy Development Co.
Kansas Power and Light Co.	Tecumseh Plant, Tecumseh, KS 330 MW; 0.3 myn tons/year On line	?	0.3 myn tons	?	?1975- ?		\$24.35 <sup>2</sup> (1977)	123.0¢	Contract announced in 1975
Kansas Power and Light Co.	Lawrence Station, Lawrence, KS 575 MW; 0.7 myn tons/year On line	?	0.7 myn tons	?	?1975- ?		\$24.46 <sup>2</sup> (1977)	122.3¢	Contract announced in 1975
Northern Indiana Public Service Co.	Dean H. Mitchell Station, Gary, IN 500 MW; 1.5 myn tons/year On line	15 myn tons	1.5 myn tons	10 years	1975-1984		\$21.75 <sup>2</sup> (1978)	113.3¢	Contract announced in 1975
Union Electric Co.	Labadie Plant, Labadie, MO 2,220 MW; 5.3 myn tons/year On line	?	0.3 myn tons <sup>1</sup>	?	?1977- ?		\$34.54 <sup>2</sup> (1978)	173.9¢	Contract noted in 1977; Arch Mineral's Seminole Nos. 1 & 2 also provide coal which is blended with KY and IL coal
Union Electric Co.	Rush Island Plant, Crystal City, MO 1,150 MW; 2.7 myn tons/year On line	?	0.3 myn tons <sup>1</sup>	?	?1977- ?		\$35.54 <sup>2</sup> (1978)	177.7¢	Contract noted in 1977; also supplied by Rosebud Coal Sales and blended with KY coal

Notes: 1 Estimated 2 FERC data

COAL CONTRACT INFORMATION

MINE NAME: ROJO CABALLOS STRIP MINE

COMPANY: MOBIL OIL CORPORATION

COAL RESERVES: 317.5 million short tons

TOTAL CONTRACTED TONNAGE: 50 million short tons

MINE CAPACITY: 15 million short tons

CONTRACTED ANNUAL PRODUCTION: 2.6 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Missouri Basin Power Project	Laramie River Station, units 1-3; 1500 MW; 6.0 myn tons/year Startup 1980, 1980, 1982	30 myn tons	1.5 myn tons	20 years	1983-2002	Less than \$6.75		Contract announced in February 1980; negotiated with Western Fuels Association; not clear which power plant units are included in contract, perhaps all 3
Sunflower Electric Coop	Holcom Station, Garden City, KS; 280 MW; 1.1 myn tons/year; Startup in ?1983	20 myn tons	1.1 myn tons	20 years	?1983-2002	Less than \$6.75		Contract announced in February 1980; negotiated with Western Fuels Association; initial shipments at 0.38 myn tons/year will increase to 1.1 myn tons/year
Western Fuels Association, Inc.	Unspecified plants	40-60 myn tons						This option for additional tonnage can be exercised through 1980

Notes:

COAL CONTRACT INFORMATION  
 MINE NAME: NORTH ANTELOPE STRIP MINE  
 COMPANY: NORTH ANTELOPE COAL COMPANY

COAL RESERVES: 200 million short tons<sup>1</sup>  
 TOTAL CONTRACTED TONNAGE: 150 million short tons  
 MINE CAPACITY: 5 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 5 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS					Miscellaneous Comments	
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton		Delivered Price Per Ton Cents/MMBTU
Arkansas Power and Light Co.	Independence No. 1, Newark, AR 700 MW; 2.5 myn tons/year Startup in 1983	100 myn tons	2.5 myn tons	40 years	?1983-2022			Contract announced in 1976; negotiated through System Fuels, includes a 50 myn ton option; plant jointly owned by Arkansas Power and Light Co. (420 MW), Arkansas Electric Coop. (245 MW), and City of Jonesboro (35 MW)
?City of Wichita	Independence No. 2, Newark, AR 700 MW; 2.5 myn tons/year Startup in 1985	100 myn ton	2.5 myn tons	40 years	1985-2024			See notes above
	Unnamed coal gasification plant, Wichita, KS; ?capacity; ?tonnage	?	?	?	?			Plans for this plant were announced in 1977, but its present status is unclear

Notes: 1 Recoverable reserves estimated at 156.4 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: LEUCITE HILLS STRIP MINE  
 COMPANY: PROSPECT POINT COAL COMPANY (only a unit train tippie at present)

COAL RESERVES: 5.1 million short tons  
 TOTAL CONTRACTED TONNAGE: 5 million short tons  
 MINE CAPACITY: 0.5 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 0.325 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments	
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton		
Commonwealth Edison Co.	Joliet Plant, Joliet, IL 1500 MW; 2.9 myn tons/year On line	5 myn tons	0.5-0.6 myn tons	10 years	1977-1986		\$32.58 <sup>1</sup> (1978)	175.3¢	Contract announced in 1977; coal is purchased from Bridger Coal Co.'s Jim Bridger mine and marketed from this tippie <sup>2</sup>  Contract announced in February 1980
Tenneco Oil Co.	Trona mill, Green River, WY 1.0 myn tons/year trona capacity Coal use 0.325 myn tons/year	3.25 myn tons	0.325 myn tons	10 years	1982-1991				

Notes: <sup>1</sup> FERC data

<sup>2</sup> The capacity of Prospect Point's tippie is 3.0 myn tons per year; it is only permitted for 1.2 myn tons per year

COAL CONTRACT INFORMATION

MINE NAME: ROCHELLE STRIP MINE

COMPANY: ROCHELLE COAL COMPANY

COAL RESERVES: 200 million short tons  
 TOTAL CONTRACTED TONNAGE: 200 million short tons  
 MINE CAPACITY: 11 million short tons  
 CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments	
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton		Cents/MMBTU
Wyoming Coal Gas Co.	Unnamed coal gasification plant, Douglas, WY; 139-270 MMCFD; 5.5-11.0 myn tons/year <sup>1</sup>	200 myn tons <sup>1</sup>	5.5-11.0 myn tons	20 years <sup>1</sup>	?				Plans for this plant were suspended in 1977, its present status is not clear

Notes: <sup>1</sup> Estimated



COAL RESERVES: 1,108 million short tons<sup>1</sup>  
 TOTAL CONTRACTED TONNAGE: 184 million short tons  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: RED DESERT STRIP MINE  
 COMPANY: ROCKY MOUNTAIN ENERGY COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
?Southern Calif- ornia Edison Co.	Unnamed liquefaction plant; unknown location	184 myn tons <sup>2</sup>	?	?	?			According to a 1976 com- pany report approximately 1/3 of Rocky Mountain Energy's land is leased to Southern California Edison for a possible liquefaction plant; current plans unclear

Notes: <sup>1</sup> Company estimate, includes unleased federal coal <sup>2</sup> Estimated

COAL CONTRACT INFORMATION

MINE NAME: ROSEBUD STRIP PITS

COMPANY: ROSEBUD COAL SALES COMPANY

COAL RESERVES: 36.4 million short tons

TOTAL CONTRACTED TONNAGE: 36.4 million short tons

MINE CAPACITY: 3.0 million short tons

CONTRACTED ANNUAL PRODUCTION: 3.0 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments	
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton		Price Cents/MMBTU
? Cedar Falls Municipal Utilities	? Streeter Plant, Cedar Falls, IA 20 MW; 0.07 myn tons/year On line	?	0.07 myn tons	?	? 1978- ?				Probable Rosebud contract, but not confirmed
? Great Western Sugar Co.	Unspecified plants, ?CO and NB	?	small	?	?				No details
? Inland Steel Corp.	Unspecified plants or locations	?	small	?	?				No details, possibly no longer in effect
Iowa Power and Light Co.	Council Bluffs Nos. 1 & 2, Council Bluffs, IA 139 MW; 0.35 myn tons/year On line	?	0.35 myn tons	?	1974- ?		\$17.18 <sup>1</sup> (1977)	83.4¢	Contract mentioned in 1973
Iowa Power and Light Co.	Des Moines No. 2, Des Moines, IA 277 MW; 0.6 myn tons/year On line	?	0.1 myn tons <sup>2</sup>	?	Pre-1973- ?		\$22.07 (1979)	106.1¢	Contract mentioned in 1973; also supplied by Amax Coal Co.
Iowa Public Service Co.	Carroll Nos. 1 & 2, Carroll, IA 10.6 MW; 0.005 myn tons/year On line	?	0.005 myn tons	?	Pre-1973- ?1981				Contract mentioned in 1974; Carroll Plant due to shut down in 1981

Notes: <sup>1</sup> FERC data <sup>2</sup> Estimated

COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: ROSEBUD STRIP PITS (Continued)  
 COMPANY:

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	Cents/MMBTU	
Iowa Public Service Co.	Eagle Grove Plant, Eagle Grove, IA 9.8 MW; 0.004 myn tons/year On line	?	0.004 myn tons	?	Pre-1973- ?1981				Contract mentioned in 1974; Eagle Grove Plant due to shut down in 1981
Iowa Public Service Co.	George Neal No. 3, Sioux City, IA 520 MW; 1.5 myn tons/year On line	?	0.4 myn tons <sup>2</sup>	?	1975- ?		\$16.46- \$19.081 (1979)	82.3¢- 92.6¢	Contract mentioned in 1974; plant jointly owned by Iowa-Illinois Gas & Electric Co. (150.8 MW), Iowa Power & Light Co. (119.6 MW), Iowa Public Service Co. (104 MW), and Iowa Southern Utilities Co. (145.6 MW); also supplied by Medicine Bow Coal Co.
Monolith Cement Co.	Laramie Plant, Laramie, WY 0.2 myn tons/year cement capacity; Coal use 0.069 myn tons/year On line	?	0.069 myn tons	?	1961- ?				Contract began in 1961
	Laramie Plant expansion, Laramie, WY 0.3 myn tons/year cement capacity Coal use 0.104 myn tons/year Startup in 1980's	?	0.104 myn tons <sup>2</sup>	?	?1980- ?				Expansion of plant announced in 1979

Notes:

COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: ROSEBUD STRIP PITS (Continued)  
 COMPANY:

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU		
?Oregon Portland Cement Co.	?Idaho Portland Cement Plant, Inkon, ID 0.21 myn tons/year cement capacity; Coal use 0.068 myn tons/year On line	?	0.068 myn tons <sup>2</sup>	?	?	?		Probable contract	
Public Service Company of Colorado	Valmont Plant, Boulder, CO 247 MW; 0.4 myn tons/year On line	?	0.2 myn tons <sup>2</sup>	?	Pre-1973- ?		\$13.25 <sup>1</sup> (1978)	Contract mentioned in 1974; blended with CO coal	
Union Electric Company	Rush Island Plant, Crystal City, MO 1150 MW; 2.7 myn tons/year On line	?	0.1 myn tons <sup>2</sup>	?	?		\$35.44 <sup>1</sup> (1978)	Contract noted in 1978; also supplied by Medicine Bow mine and blended with IL, NM, CO, UT, WY, and OK coals	
?Utah Idaho Sugar Co. Domestic	Unspecified plants, ?locations Unspecified local markets	?	small small	?	?			No details, but probable customer No details	

Notes:

COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: ROSEBUD STRIP PITS (Continued)  
 COMPANY:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
Omaha Public Power District	North Omaha Plant, Omaha, NB 630 MW; 1.3 myn tons/year On line	?	1.2 myn tons <sup>2</sup>	?	Pre-1973- ?		\$22.70 <sup>1</sup> (1979)	Contract mentioned in 1976; also supplied by Seminole No. 2 mine, possibly on spot basis
?Oregon Portland Cement Co.	?Durkee Plant, OR 0.5 myn tons/year cement capacity; Coal use 0.075 myn tons/year On line	0.35 myn tons	0.35 myn tons	1 year	1980	\$19.50	\$28.64	Second short term contract for North Omaha Plant announced 11/26/79
?Oregon Portland Cement Co.	?Lake Oswego Plant, Lake Oswego, OR 0.36 myn tons/year cement capacity; Coal use 0.075 myn tons/year On line	?	0.075 myn tons <sup>2</sup>	?	?1979- ?			Probable contract; may have begun with closure of Huntington plant in 1979
			0.075 myn tons <sup>2</sup>	?	?			Probable contract

Notes:

COAL CONTRACT INFORMATION

MINE NAME: ROSEBUD STRIP PITS (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
<u>SPOT SALES</u>								
Nebraska Public Power District	Sheldon Plant, Hallam, NB 220 MW; 0.46 myn tons	?	?	spot	?1979			Major supplier is Seminoe No. 1 mine; blended with OK and UT coals
Omaha Public Power District	North Omaha Station, Omaha, NB 630 MW; 1.3 myn tons/year On line	0.3 myn tons	0.3 myn tons	spot	1980			May be addition to Rosebud's longer term contract or perhaps the longer term contract has expired; announced in January 1980; this contract was supplied by Arch's Seminoe No. II mine in 1979

Notes:

COAL RESERVES: 80 million short tons  
 TOTAL CONTRACTED TONNAGE: 80 million short tons  
 MINE CAPACITY: 6.15 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 6.15 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: BUCKSKIN STRIP MINE  
 COMPANY: SHELL OIL COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Cajun Electric Power Cooperative, Inc.	?Big Cajun 2 No. 2, New Roads, LA; 540 MW; 2.3 myn tons/year Startup in 1981	28 myn tons <sup>1</sup>	2.35 myn tons <sup>1</sup>	12 years	1984-1995			Contract announced in 1979 and negotiated with Western Fuels Assoc.; not very clear which units are to be supplied by contract; Kerr-McGee's Clovis Point mine has contract 1979-1983
Missouri Basin Power Project	?Big Cajun 2 No. 3, New Roads, LA; 540 MW; 2.3 myn tons/year Startup in 1983	28 myn tons <sup>1</sup>	2.35 myn tons <sup>1</sup>	12 years	1984-1995			See notes above
	Laramie River No. 1, Wheatland, WY; 500 MW; 2.0 myn tons/year Startup in 1980	3 myn tons	0.25 myn tons	15 years	1981-1995			Contract announced in 1979 and negotiated with Western Fuels Assoc.; plant jointly owned by Basin Electric Power Coop. (210 MW), Tri-State (120 MW), Missouri Basin Municipal Power Agency (85 MW), Lincoln Electric System (65 MW), Heartland Consumer's Power Agency (15 MW), and Wyoming Municipal Power Agencies (5 MW); also supplied by Cordero mine

Notes: 1 Estimated

COAL CONTRACT INFORMATION

MINE NAME: BUCKSKIN STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU	
Western Farmers Electric Coop.	Eastern Oklahoma No. 1, Anadarko, OK; 376 MW; 1.2 myn tons/year Startup in 1982	20.4 myn tons	1.2 myn tons	17 years	1981-1997			Contract announced in 1977

Notes:



COAL CONTRACT INFORMATION

MINE NAME: STANSBURY DEEP MINE

COMPANY: STANSBURY COAL COMPANY

COAL RESERVES: 59 million short tons<sup>1</sup>  
 TOTAL CONTRACTED TONNAGE: 59 million short tons  
 MINE CAPACITY: 0.3 million short tons<sup>2</sup>  
 CONTRACTED ANNUAL PRODUCTION: 0.63 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Ideal Basic Industries, Cement Division	Boettcher Plant, Boettcher, CO; 0.365 myn tons/year cement capacity Coal use 0.057 myn tons/year On line	?	70.057 myn tons	?	?			Although this mine was planned to supply all these cement plants, only about 0.3 myn tons/year are available; expansion of the Devil's Slide plant to 1 myn tons/year capacity is planned; tonnage deficits probably made up by short or spot contracts to individual plants; unclear which plants are currently supplied by this mine
Ideal Basic Industries, Cement Division	Portland Plant, Portland, CO; 0.885 myn tons/year cement capacity; Coal use 0.31 myn tons/year On line	?	70.31 myn tons	?	?			See notes above
Ideal Basic Industries, Cement Division	Devil's Slide Plant, Devil's Slide, UT; 0.36 myn tons/year cement capacity; Coal use 0.096 myn tons/year On line	?	70.096 myn tons	?	?			See notes above

Notes: <sup>1</sup> Estimated (probably includes Winton property as well)

<sup>2</sup> Although this mine was designed for 1.4 myn tons, maximum production has not exceeded 0.3 myn tons

COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: STANSBURY DEEP MINE (Continued)  
 COMPANY:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	
Ideal Basic Industries, Cement Division	Grotto Plant, Seattle, WA; 0.49 myn tons/year cement capacity; Coal use 0.165 myn tons/year On line	?	0.165 myn tons	?	?			See notes above
Ideal Basic Industries, Cement Division	Superior Plant, Superior, NB; 0.235 myn tons/year cement capacity; Coal use 0.017 myn tons/year On line	?	0.017 myn tons	?	?			See notes above
Ideal Basic Industries, Cement Division	Trident Plant, Trident, MT; 0.33 myn tons/year cement capacity; Coal use 0.114 myn tons/year On line	?	0.114 myn tons	?	?			See notes above
Texasgulf, Inc.	Trona Plant, Green River, WY; 5400 tons/day trona capacity; Coal use 0.13 myn tons/year On line	?	0.13 myn tons	?	1976- ?			Contract announced in 1976; not sure of current status, but suspect it may have ended

Notes:

COAL RESERVES: 2,000 million short tons<sup>1</sup>  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: UNNAMED STRIP MINE  
 COMPANY: TEXACO, INC.

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Texaco, Inc., and Trans-western Pipeline Co.	Unnamed gasification plant, Lake De Smet, WY; 250 MMCFD; 4.5-12 myn tons/year	?	4.5-12.0 myn tons	?	? Late 1980's			Plant study announced in October 1979, but no definite construction schedule released yet; construction may begin in 1984-1985

Notes: 1 Estimated

COAL RESERVES: 750 million short tons  
 TOTAL CONTRACTED TONNAGE: 374 million short tons  
 MINE CAPACITY: 20 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 16.8 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: BLACK THUNDER STRIP MINE  
 COMPANY: THUNDER BASIN COAL COMPANY

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	MMBTU	
Lower Colorado River Authority	Sam K. Seymour No. 1 (Fayette No. 1), 550 MW; 1.8 myn tons/year Startup in 1979	3.0 myn tons <sup>1</sup>	1.0 myn tons <sup>1</sup>	3 years <sup>1</sup>	1979-1981				Contract announced in 1978; contract is with Coal Creek mine although Black Thunder will make up tonnage until Coal Creek is on line
	Sam K. Seymour No. 2 (Fayette No. 2), 550 MW; 1.8 myn tons/year Startup in 1980	2.0 myn tons <sup>1</sup>	1.0 myn tons <sup>1</sup>	2 years <sup>1</sup>	1980-1981				See notes above
Nebraska Public Power District	Gerald Gentleman No. 1, Sutherland, NB; 600 MW; 2.3 myn tons/year On line	46 myn tons <sup>1</sup>	2.3 myn tons <sup>1</sup>	20 years	1978-1997	\$1.57-\$1.78 <sup>2</sup>			Contract announced in 1973; as a 20 year contract for 36 myn tons at 1.8 myn tons/year; contract apparently expanded; railroad rate \$4.75/ton in 1979
	Gerald Gentleman No. 2, Sutherland, NB; 600 MW; 2.3 myn tons/year Startup in 1981	46 myn tons <sup>1</sup>	2.3 myn tons <sup>1</sup>	20 years	1980-2000				See notes above

Notes: 1 Estimated 2 Rumored initial contract price without adjustments 3 FERC data

COAL RESERVES:  
 TOTAL CONTRACTED TONNAGE:  
 MINE CAPACITY:  
 CONTRACTED ANNUAL PRODUCTION:

COAL CONTRACT INFORMATION  
 MINE NAME: BLACK THUNDER STRIP MINE (Continued)  
 COMPANY:

Company Name	BUYER INFORMATION Plant (name, location, capacity, annual fuel requirement) On line	CONTRACT SPECIFICATIONS							Miscellaneous Comments
		Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU		
OKlahoma Gas and Electric Co.	Muskogee No. 4, Muskogee, OK; 515 MW; 1.5 myn tons/year On line	30 myn tons	1.5 myn tons	20 years	1978-1997	\$1.90 <sup>2</sup>	\$16.76 <sup>3</sup> (1979)	94.2¢	Contract announced in 1973
OKlahoma Gas and Electric Co.	Muskogee No. 5, Muskogee, OK; 515 MW; 1.5 myn tons/year On line	30 myn tons	1.5 myn tons	20 years	1978-1997	\$1.90 <sup>2</sup>	\$16.76 <sup>3</sup> (1979)	94.2¢	See notes above
OKlahoma Gas and Electric Co.	Sooner No. 1, Ponka City, OK; 515 MW; 1.6 myn tons/year On line	32 myn tons <sup>1</sup>	1.6 myn tons	20 years <sup>1</sup>	1979-1998		\$18.48 <sup>3</sup> (1979)	105.0¢	Contract noted in 1978
Southwestern Public Service Co.	Sooner No. 2, Ponka City, OK; 515 MW; 1.6 myn tons/year Startup in 1980	32 myn tons <sup>1</sup>	1.6 myn tons	20 years <sup>1</sup>	1980-1998				Contract noted in 1978
Southwestern Public Service Co.	Harrington No. 1, Amarillo, TX; 317 MW; 1.0 myn tons/year On line	20 myn tons <sup>1</sup>	1.0 myn tons	20 years <sup>1</sup>	1977-1995		\$24.97 <sup>3</sup> (1979)	141.9¢	Contract announced in 1973
Southwestern Public Service Co.	Harrington No. 2, Amarillo, TX; 317 MW; 1.0 myn tons/year On line	20 myn tons <sup>1</sup>	1.0 myn tons	20 years <sup>1</sup>	1978-1997		\$24.97 <sup>3</sup> (1979)	141.9¢	See note above

Notes:

COAL CONTRACT INFORMATION

COAL RESERVES:

MINE NAME: BLACK THUNDER STRIP MINE (Continued)

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Start-up and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton Cents/MMBTU	
Southwestern Public Service Co.	Harrington No. 3, Amarillo, TX; 317 MW; 1.0 myn tons/year Startup in 1980	20 myn tons <sup>1</sup>	1.0 myn tons	20 years <sup>1</sup>	1980-1999			See note above
Southwestern Public Service Co.	Tolk No. 1, Earth, TX; 510 MW; 1.5 myn tons/year Startup in 1982	30 myn tons <sup>1</sup>	1.5 myn tons <sup>1</sup>	20 years <sup>1</sup>	1981-2001			Contract announced in 1978 although details are lacking; Coal Creek mine may also supply some coal to these units
	Tolk No. 2, Earth, TX; 510 MW; 1.5 myn tons/year Startup in 1985	30 myn tons <sup>1</sup>	1.5 myn tons <sup>1</sup>	20 years <sup>1</sup>	1984-2004			See notes above
Wisconsin Public Service Corp.	Weston No. 3, Rothschild, WI; 300 MW; 1.0 myn tons/year Startup in 1982	1 myn tons	1.0 myn tons	1 year	1981			Contract announced in 1977; contract is with Coal Creek mine, but Black Thunder will provide coal until Coal Creek is on line

Notes:

COAL CONTRACT INFORMATION

MINE NAME: WYMO STRIP MINE

COMPANY: WYMO FUELS, INC.

COAL RESERVES: 42 million short tons

TOTAL CONTRACTED TONNAGE: 42 million short tons

MINE CAPACITY: 4 million short tons

CONTRACTED ANNUAL PRODUCTION: 4 million short tons

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Cents/MMBTU Per Ton	
Kansas City Power and Light Co.	Unspecified plants in KS and/or MO	42 myn tons	4 myn tons	?11 years	?Early 1980's			Mine application rejected in 1978, but resubmitted in late 1979; may supply coal to La Cygne No. 2 and/or Iatan plants

Notes:

COAL RESERVES: 50 million short tons<sup>1</sup>  
 TOTAL CONTRACTED TONNAGE: 50 million short tons  
 MINE CAPACITY: 5 million short tons  
 CONTRACTED ANNUAL PRODUCTION: 5 million short tons

COAL CONTRACT INFORMATION  
 MINE NAME: WYODAK STRIP MINE  
 COMPANY: WYODAK RESOURCES DEVELOPMENT CORPORATION

BUYER INFORMATION		CONTRACT SPECIFICATIONS							Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Start-up and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	Cents/MMBTU	
Black Hills Power and Light Co.	Neil Simpson No. 5, Wyodak, WY; 20 MW; 0.2 myn tons/year On line	3.6 myn tons <sup>1</sup>	0.2 myn tons <sup>1</sup>	? 18 years	? - ? 1988		\$4.21 <sup>2</sup> (1977)	25.7¢	Contract began sometime ago: Units 1-4 retired by 1978
Black Hills Power and Light Co.	Osage Plant, Osage, WY; 34.5 MW; 0.22 myn tons/year On line	4.4 myn tons <sup>1</sup>	0.22 myn tons <sup>1</sup>	? 10 years remaining	? - ? 1988		\$6.93- \$7.012 (1979)	40.8¢- 43.3¢	Contract for this plant began sometime ago
Black Hills Power and Light Co.	Osage Plant expansion, Osage, WY; 10.0 MW; 0.10 myn tons/year Startup date ?	2.0 myn tons <sup>1</sup>	0.10 myn tons <sup>1</sup>	20 years <sup>1</sup>	?				Announced in 1979 although construction schedule not clear: evidently a joint venture with Pacific Power and Light Co.
Black Hills Power and Light Co.	Ben French Plant, Rapid City, SD; 22 MW; 0.085 myn tons/year On line	1.7 myn tons <sup>1</sup>	0.085 myn tons	? 10 years <sup>1</sup> remaining	? - ? 1988		\$8.61- \$9.122 (1977)	53.8¢- 55.6¢	Contract for this plant began sometime ago
Black Hills Power and Light Co.	Kirk Plant, Lead, SD; 31.5 MW; 0.12 myn tons/year On line	2.4 myn tons <sup>1</sup>	0.12 myn tons	? 10 years remaining <sup>1</sup>	? - ? 1988		\$9.66 <sup>2</sup> (1978)	59.6¢	Contract for this plant began sometime ago
Grand Island Utilities	Platte No. 1, Grand Island, NB; 100 MW; 0.3 myn tons/year Startup in 1981	6.7 myn tons	0.3 myn tons	20 years	1981-2000		\$7.00 <sup>1</sup>		Contract announced in 1978

Notes: 1 Estimated 2 FERC data 3 1979 price 4 Company information



COAL CONTRACT INFORMATION

MINE NAME: WYODAK STRIP MINE (Continued)

COMPANY:

COAL RESERVES:

TOTAL CONTRACTED TONNAGE:

MINE CAPACITY:

CONTRACTED ANNUAL PRODUCTION:

BUYER INFORMATION		CONTRACT SPECIFICATIONS						Miscellaneous Comments
Company Name	Plant (name, location, capacity, annual fuel requirement)	Total Tonnage Contracted	Average Tonnage Per Year	Duration of Contract	Startup and Completion	FOB Mine Price Per Ton	Delivered Price Per Ton	
Pacific Power and Light Co.	Wyodak No. 1, Wyodak, WY; 330 MW; 1.5 myn tons/year On line	18 myn tons <sup>1</sup>	1.5 myn tons	12 years <sup>1</sup>	1977-?1988			Contract announced in 1973 plant jointly owned by Pacific Power & Light Co. (264 MW) and Black Hills Power & Light Co. (66 MW)
?Black Hills Power and Light Co.	Wyodak No. 2, Wyodak, WY; 330 MW; 1.5 myn tons/year ?Startup in late 1980's	10.5 myn tons <sup>1</sup>	1.5 myn tons	7 years <sup>1</sup>				Contract announced about 1976; Black Hills Power & Light Co. will own 132 MW with undisclosed companies owning the remaining 198 MW
Domestic and Municipal	Sundance Courthouse, Sundance, WY; Moorcroft schools, Moorcroft, WY; 500-600 unspecified customers in WY, SD, MT, and MN	0.025 myn tons <sup>1</sup>		spot		\$12.50 <sup>3</sup>		Stoker coal sales

Notes:



ADDENDA

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ADDENDA

1979 Wyoming Coal Production by Mine

COMPANY	MINE NAME	EMPLOYEES 1979 <sup>1</sup>	PRODUCTION 1979 <sup>1</sup>
Amax	Belle Ayr (strip)	412	14,996,875
	Eagle Butte (strip)	156	3,732,660
Arch Mineral	Seminole No. 1 (strip)	235	2,284,661
	Seminole No. 2 (strip)	325	2,719,790
Ash Creek Mining	PSO No. 1 (strip)	2	ACTIVITY SUSPENDED
Becor & Assoc.	Roncco (deep)	13	140
Big Horn	Big Horn (strip)	302	3,523,787
Black Butte	Black Butte (strip)	485	1,200,000
Black Mountain	Black Mountain No. 1 (strip)	7	8,217
Bridger	Jim Bridger (strip)	331	5,690,411
Carbon County	Carbon No. 1 (deep)	94	96,269
Carter Mining	Caballo (strip)	34	1,272,969
	Rawhide (strip)	219	3,593,415
Cordero Mining (SUNEDCO)	Cordero (strip)	112	3,832,800
Cravat	Deadman (test pit)	-	0
Delzer Construction	Fort Union (strip)	34	7,737
Dusky Diamond	Grass Creek (strip)	4	9,206
Energy Development	Energy pits (strip)	56	596,044
	Vanguard No. 2 (deep)	233	345,274
FMC Corp.	Skull Point (strip)	94	813,346
Glenrock (NERCO)	Dave Johnston (strip)	155	3,828,162
Kemmerer	Elkol (strip)	244	1,778,856
	Sorensen (strip)	314	2,502,267
Kerr-McGee	Clovis Point (strip)	115	293,484
	Jacobs Ranch (strip)	197	4,681,245
Medicine Bow Prospect Point <sup>2</sup>	Medicine Bow (strip)	231	2,345,917
	Commercial stockpile & tipple	10	-
Rosebud Coal Sales	Rosebud pits (strip)	243	2,396,358
Stansbury	Stansbury (deep)	155	287,124
Thunder Basin (ARCO)	Black Thunder (strip)	332	6,244,164
Wyodak Resources	Wyodak (strip)	49	2,364,000
TOTAL		5,205	71,445,178

<sup>1</sup>Source: State Inspector of Mines

<sup>2</sup>Purchases at least 500,000 tons per year from Bridger Coal Co.

ADDENDA

1979 WYOMING COAL PRODUCTION BY COUNTY<sup>1</sup>

	<u>Millions of Tons</u>
Campbell	41.0
Carbon	10.8
Sweetwater	7.2
Lincoln	5.1
Converse	3.8
Sheridan	3.5
Hot Springs	NEG <sup>2</sup>
<hr/>	
TOTAL	71.4
<hr/>	

<sup>1</sup>Source: State Inspector of Mines

<sup>2</sup>Negligible (9346 tons)



