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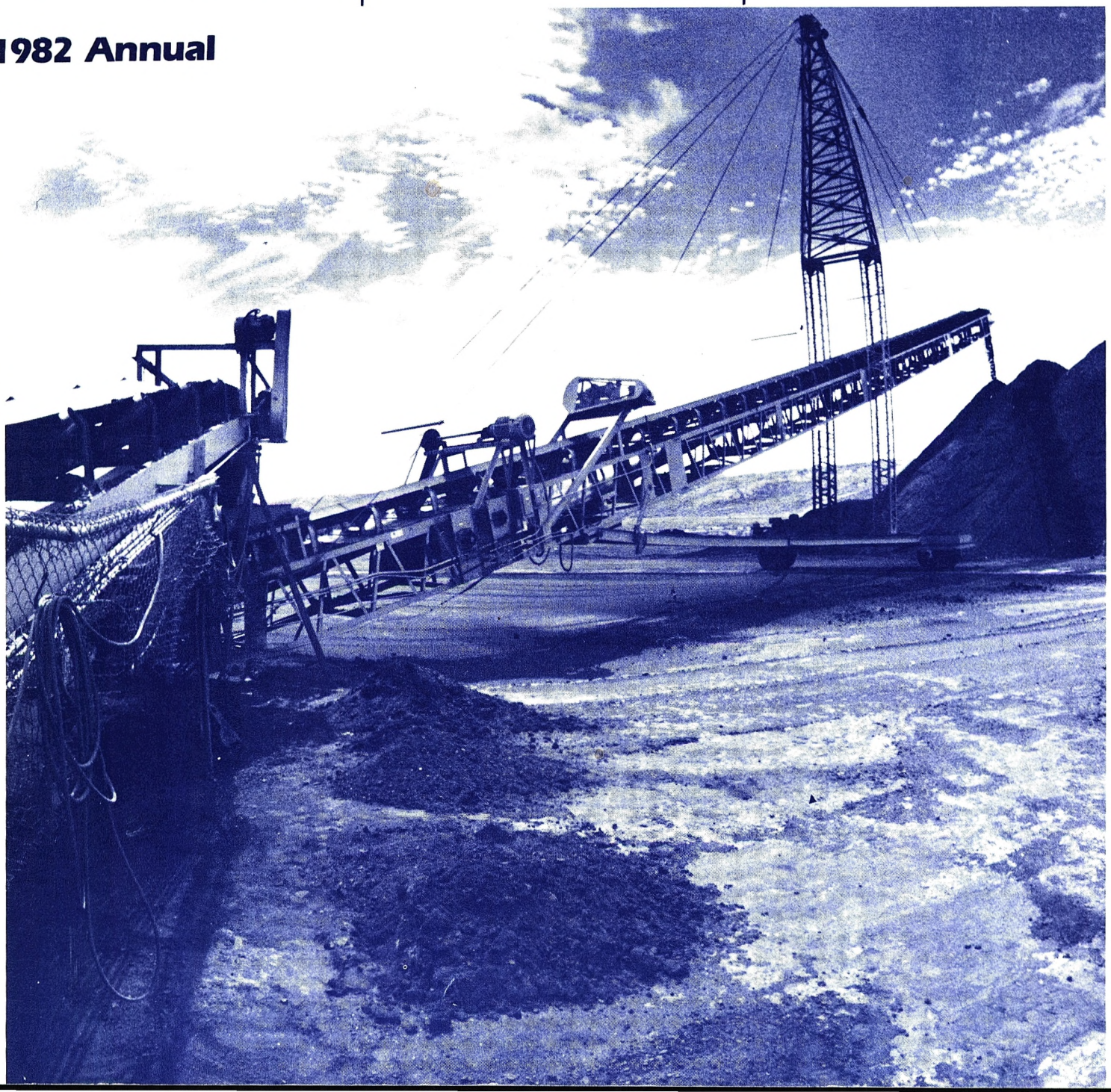
Cost and Quality of Fuels for Electric Utility Plants

Energy Information Administration
Washington, D.C.

August 1983

1982 Annual



Cost and Quality of Fuels for Electric Utility Plants - 1982 Annual

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Begining with January 1983 data, the *Monthly* **Cost and Quality of Fuels for Electric Utility Plants** report has been discontinued. The data have been incorporated into the revised **EPM** and the **Electric Power Quarterly.**

The summarized data contained in this report are presented for the use of a wide audience including Congress, Federal and State agencies, the electric utility industry, and the general public. The data presented in this report were collected and published by the Energy Information Administration (EIA), U.S. Department of Energy, to fulfill its data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (P.L. 93-275) as amended.

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Cost and Quality of Fuels for Electric Utility Plants

1982 Annual

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August 1983

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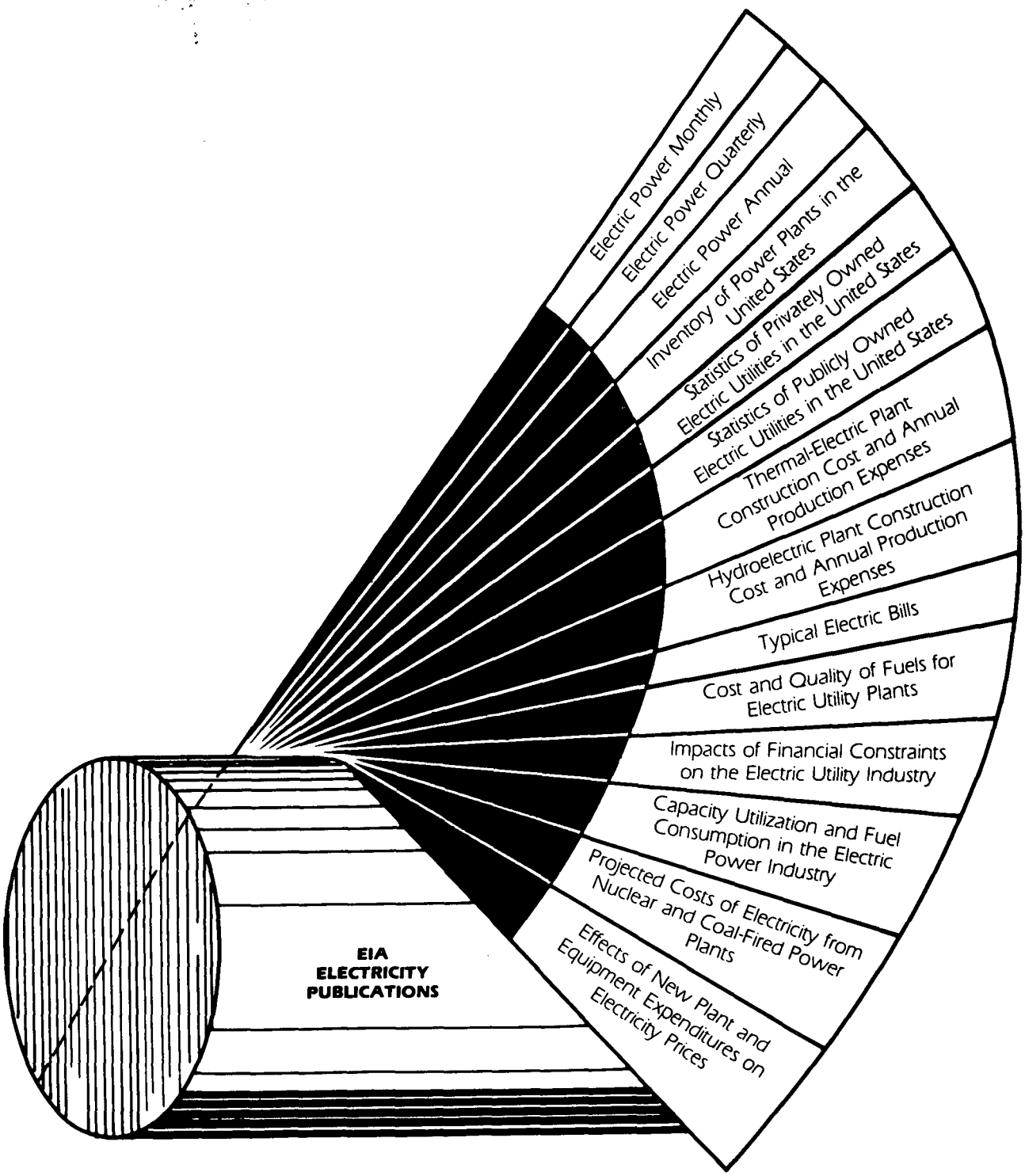
Contacts

General information for this document may be obtained from Mary J. Hutzler (202/252-9863); Director of the Electric Power Division; Office of Coal, Nuclear, Electric and Alternate Fuels; Energy Information Administration; U.S. Department of Energy; Edward Hill (202/252-6516) or Carrol French (202/252-5311) in the Electric Power Data Development, Collection, Processing and Maintenance Branch.

Specific information about the data in this report may be obtained from Kenneth McClevey (202/252-5310), Richard Salkov (202/252-6525), Dean Fennell (202/252-6523), and Debbie Bolden (202/252-8952).



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Introduction

This summary report, covering the calendar year 1982, is the ninth annual report in a series based on the data filed with the Department of Energy, Energy Information Administration, on FPC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." Before January 1978, Form 423 was filed with the Federal Energy Regulatory Commission (formerly the Federal Power Commission). The Commission issued the first four annual reports. The first summary report covered 1973 and 1974 and was issued as a single volume in June 1975. The second report, containing the data for the calendar year 1975, was issued in May of 1976. The third report, for the calendar year 1976, was issued in May of 1977. The fourth report, published by the Federal Energy Regulatory Commission, covered the calendar year 1977 and was issued in September 1978. The fifth report, published by the Energy Information Administration, covered the calendar year 1978 and was issued in October 1979.

Starting with calendar year 1978, the data on Form 423 are collected by the Energy Information Administration on a monthly basis. In addition to the annual summary reports, the Energy Information Administration publishes monthly summaries in the **Electric Power Monthly (EPM)**(5) and the **Cost and Quality of Fuels for Electric Utility Plants**(3). Beginning with January 1983 data, the monthly **Cost and Quality of Fuels for Electric Utility Plants** report has been discontinued. The data have been incorporated into the revised **EPM** and the **Electric Power Quarterly**. The summarized data contained in this report are presented for the use of a wide audience including Congress, Federal and State agencies, the electric utility industry, and the general public. The data presented in this report were collected and published by the Energy Information Administration (EIA), U.S. Department of Energy, to fulfill its data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (P.L. 93-275) as amended.

Coverage of Source

This series of summary reports contains annual information on the cost and quality of fossil fuel receipts to electric utility plants in the contiguous United States and District of Columbia with a combined capacity of 25 megawatts or greater. Data for Alaska and Hawaii are contained in Tables 56 and 57. These publications, beginning with the 1976 annual summary report, include plant-by-plant data grouped in alphabetical order by utility to enable the reader to easily find specific utilities and plants of interest.

Source of Data

Data published in the **Cost and Quality of Fuels for Electric Utility Plants Annual** are compiled from the FPC Form 423 and the EIA Form 759 filed monthly by electric utilities with the Energy Information Administration. Summary information appears in the following tables. For a description of the data submitted on this form, see Section 1.5 of the "Technical Notes."

Adjustments to Collected Data

No adjustments have been made to the collected data. Procedures for obtaining a 100 percent response rate are described in Section 1 of the "Technical Notes." Monthly and Quarterly data are considered preliminary and are subject to revision. Data published in this report is final.

Glossary

A glossary of terms used in this report has been included to assist nontechnical as well as technical users in understanding the statistical data in this publication.

Technical Notes

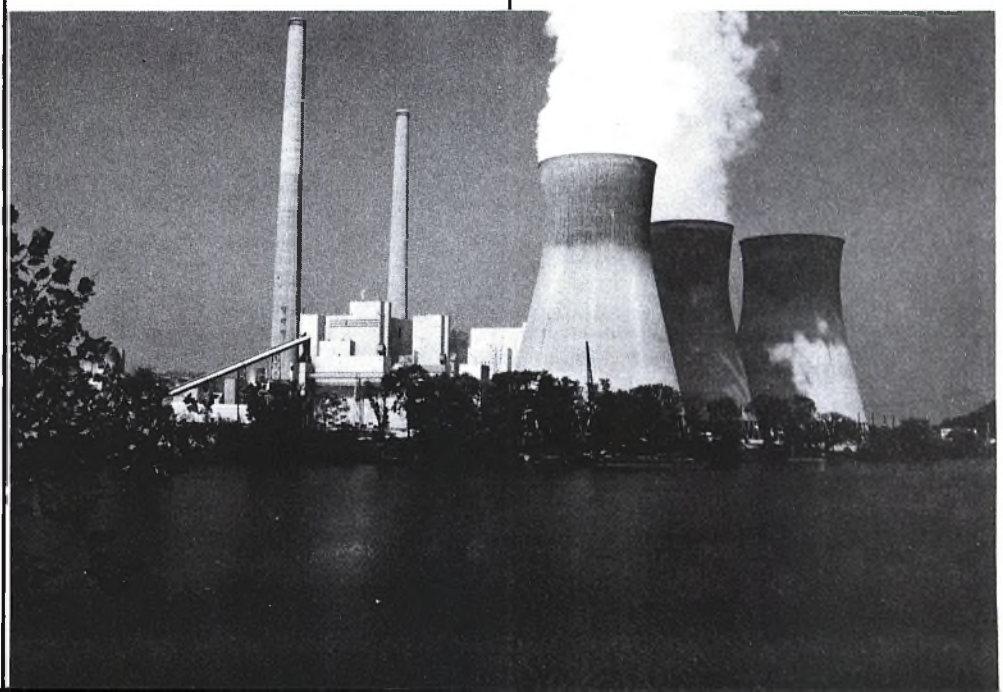
The "Technical Notes" contains a detailed description of each data collection system used in preparing this publication. The notes provide explanations of data quality, conversion formulas, and critical differences in the data. The rules for rounding the data, the 20 largest companies' summaries, and a map of the Census Regions are also included. Copies of the data are available to the public. See Section 2.3 of the "Technical Notes" for further information.

All costs in this report are weighted average costs. The algorithms used in calculating cost data can be found in Section 2.4 of the "Technical Notes."

References

The "References" section is a description of related publications. Reference numbers appear within the text in parentheses. References are located after the "Technical Notes."

Highlights



1. Highlights

In 1982, the generation of electric energy decreased 2.4 percent from 1981 to 2,241 billion kilowatthours (kWh). It was the first year in more than 30 years that net generation by electric utilities in the United States did not increase from the previous year. The largest amount of electric generation in 1982 occurred in coal plants, which generated 1,192 billion kWh, a decrease of 0.9 percent from the 1981 level. Generation from petroleum decreased signficantly during the year (28.6 percent), as did generation from natural gas (11.8 percent). Overall in 1982, coal accounted for 53.2 percent of all generation, natural gas for 13.6 percent, oil for 6.5 percent, hydroelectric power for 13.8 percent, nuclear power for 12.6 percent, with the remaining 0.2 percent from geothermal, wood, and waste. Table 1 shows the changes in net generation that have occurred between 1979 and 1982.

Table 1. Generation of Electric Energy by Energy Source, 1979-1982 (Billion Kilowatthours)

Energy Source	1979	1980		1981		1982	
	Generation	Generation	Percent Change from 1979	Generation	Percent Change from 1980	Generation	Percent Change from 1981
Coal	1,075	1,162	8.0	1,203	3.5	1,192	-0.9
Oil	304	246	-18.8	206	-16.3	147	-28.6
Gas	329	346	5.2	346	.0	305	-11.8
Nuclear Power	255	251	-1.6	273	8.8	283	3.7
Hydroelectric Power	280	276	-1.4	261	-5.4	309	18.4
Other[1]	4	6	20.0	6	.0	5	-16.7
Total	**2,247**	**2,286**	**1.7**	**2,295**	**.4**	**2,241**	**-2.4**

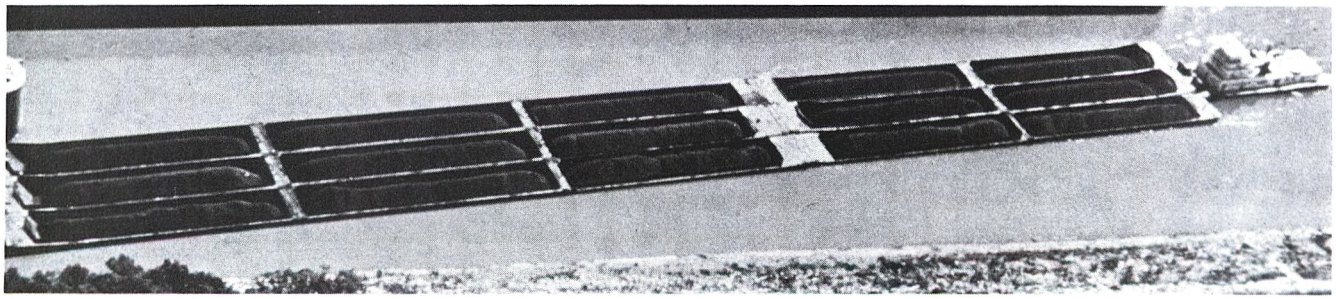
[1] Other includes geothermal, wood, and waste.
Totals may not equal sum of components because of independent rounding.
Source: Energy Information Administration Form 759 and predecessor forms.

Fuel consumption by electric utilities is directly related to the generation of electricity by these firms. During 1982, utilities decreased their consumption of fossil fuels at rates almost equal to the changes in net generation for the respective fuels (see Table 2). The decrease in coal consumption by electric utilities (0.5 percent) is similar to the decrease in coal-fired generation (0.9 percent). Petroleum consumption decreased 28.8 percent in 1982 while petroleum-fired generation decreased 28.6 percent. The same is true for natural gas as utilities decreased their consumption by 11.4 percent in 1982 while gas-fired generation decreased 11.8 percent.

Table 2. Quantity of Fossil Fuels Consumed by Electric Utility Plants, 1979-1982

Fuel Type	1979	1980		1981		1982	
	Quantity	Quantity	Percent Change from 1979	Quantity	Percent Change from 1980	Quantity	Percent Change from 1981
Coal (million short tons)	527	569	8.0	597	4.9	594	-0.5
Oil (million barrels)	523	420	-19.7	351	-16.4	250	-28.8
Gas (billion cubic feet)	3,491	3,682	5.5	3,640	-1.1	3,226	-11.4

Source: Energy Information Administration Form 759 and predecessor forms.



Highlights

The cost of fossil fuels in the contiguous United States decreased an average of 0.2 percent in 1982, specifically because of the lower use of petroleum and the abundant supplies. Consequently, the total estimated cost of all fossil fuels consumed by electric utilities was $39.7 billion, 3.6 percent less than in 1981. Table 3 points out the changes in average fossil-fuel costs between 1979 and 1982 while Table 4 shows the estimated total costs associated with fossil fuels for those same years.

Table 3. Average Cost of Fossil Fuel Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1979-1982 (Cents per Million Btu)

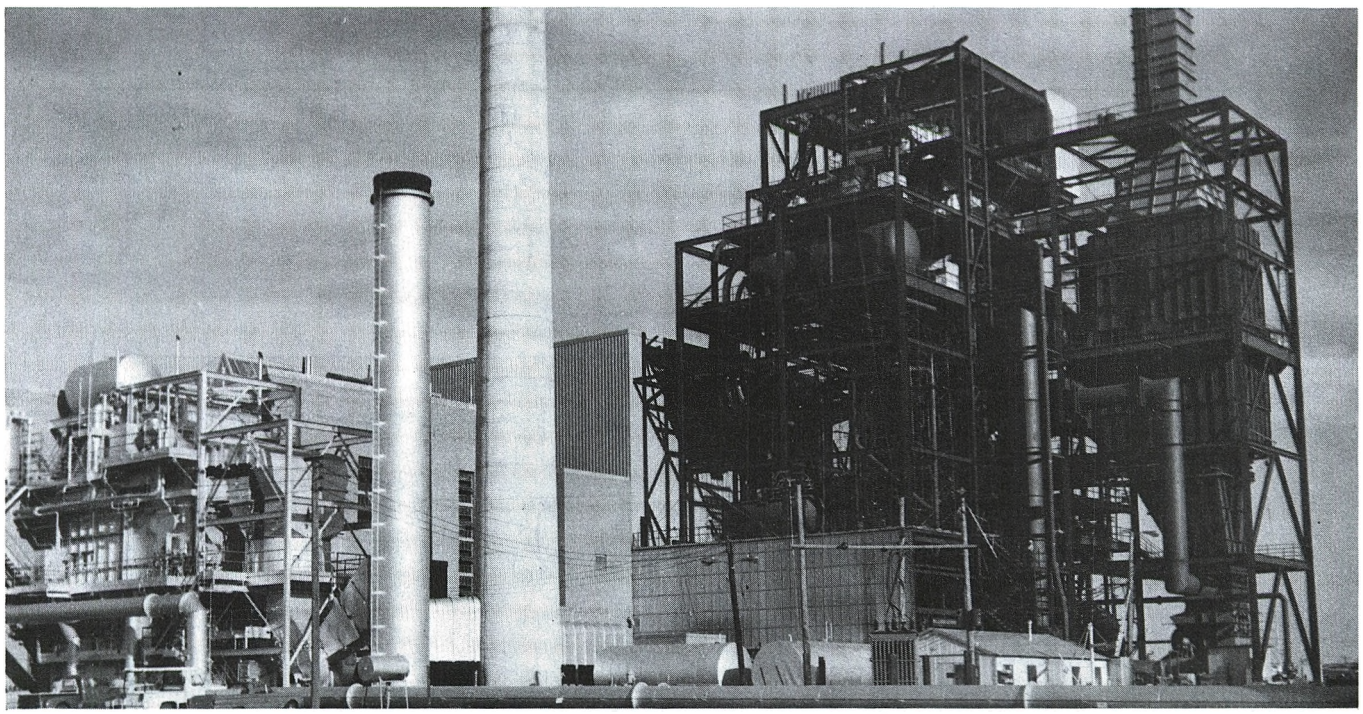
Fuel Type	1979	1980		1981		1982	
	Average Cost		Percent Change from 1979	Average Cost	Percent Change from 1980	Average Cost	Percent Change from 1981
Coal	122.4	135.1	10.4	153.2	13.4	164.7	7.5
Oil	308.1	436.5	41.7	538.7	23.4	484.9	-10.0
Gas	175.2	220.9	26.1	281.9	27.6	339.7	20.5
Average	**163.7**	**192.3**	**17.5**	**224.1**	**16.5**	**223.6**	**-.2**

Note: This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

Table 4. Estimated Cost of Fossil Fuels Consumed by Electric Utility Plants, 1979-1982 (Million Dollars)

Fuel Type	1979	1980		1981		1982	
	Estimated Cost		Percent Change from 1979	Estimated Cost	Percent Change from 1980	Estimated Cost	Percent Change from 1981
Coal	13,775.5	16,364.5	18.8	19,272.1	17.8	20,730.6	7.6
Oil	9,735.4	11,037.6	13.4	11,353.3	2.9	7,572.5	-33.3
Gas	6,266.6	8,328.5	32.9	10,508.3	26.2	11,355.5	8.1
Total	**29,777.5**	**35,730.6**	**20.0**	**41,133.7**	**15.1**	**39,658.6**	**-3.6**

Note: Calculated by applying average unit cost of fossil-fuel receipts (FPC Form 423) at electric plants of 25-Megawatts or greater in the contiguous United States to the quantities of fuels consumed (Form EIA-759) in the contiguous United States. Totals may not equal sum of components because of independent rounding.
Source: Energy Information Administration Form 759 and predecessor forms, and Federal Power Commission Form 423.



Highlights

In 1982, utilities in the contiguous United States reported receiving 601.4 million short tons of coal, 229.2 million barrels of petroleum, and 3,138.2 billion cubic feet (Bcf) of natural gas. The combined energy content of these receipts totaled 17.4 quadrillion Btu in 1982, a decrease of 3.0 percent from 1981. On a tonnage basis, utility coal receipts increased 22.0 million tons or 3.8 percent from 1981. Petroleum receipts decreased 105.6 million barrels or 31.5 percent from the previous year, while natural gas receipts decreased 414.5 Bcf or 11.7 percent from 1981. Even with reduced demand, natural gas prices increased 20.5 percent. Table 5 shows the quantities and energy content of the fossil-fuel receipts at utilities in 1981 and 1982.

Table 5. Receipts of Fossil Fuels at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1981-1982

Fuel Type	1981			1982		
	Quantity (Millions)	Total Btu (Trillions)	Percent of Total Fossil Energy	Quantity (Millions)	Total Btu (Trillions)	Percent of Total Fossil Energy
Coal	579.4(tons)	12,216.8	68.0	601.4(tons)	12,748.2	73.1
Oil						
Steam	326.9(bbls)	2,034.2	11.3	225.7(bbls)	1,411.8	8.1
Peaking	7.9(bbls)	45.5	.3	3.4(bbls)	19.8	.1
Total Oil	**334.8(bbls)**	**2,079.7**	**11.6**	**229.2(bbls)**	**1,431.6**	**8.2**
Gas						
Steam	3,412.8(Mcf)	3,529.3	19.6	3,026.7(Mcf)	3,134.0	18.0
Peaking	139.8(Mcf)	143.8	.8	111.5(Mcf)	115.2	.7
Total Gas	**3,552.7(Mcf)**	**3,673.1**	**20.4**	**3,138.2(Mcf)**	**3,249.2**	**18.7**
Grand Total	-	**17,969.7**	**100.0**		**17,429.0**	**100.0**

Notes: Totals may not equal sum of components because of independent rounding. This table excludes Petroleum Coke receipts, and all fossil fuel receipts to Alaska and Hawaii.
Source: Federal Power Commission Form 423.

The total cost of fossil fuel receipts at electric utilities reporting on Federal Power Commission Form 423 reached $39.0 billion in 1982, a decrease of more than $1 billion, or 3.2 percent from the previous year. The total cost of fossil-fuel receipts at electric utilities in 1981 and 1982 is shown in Table 6.

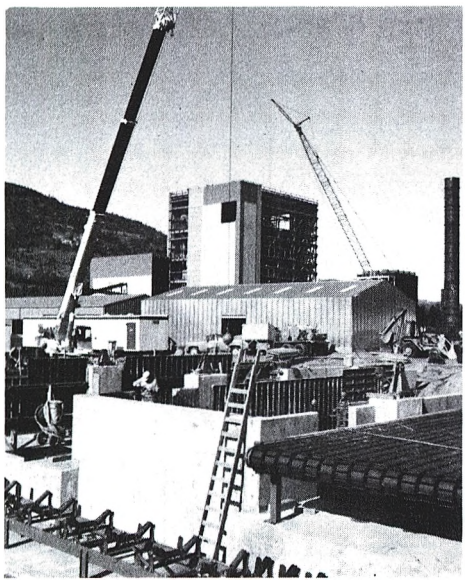


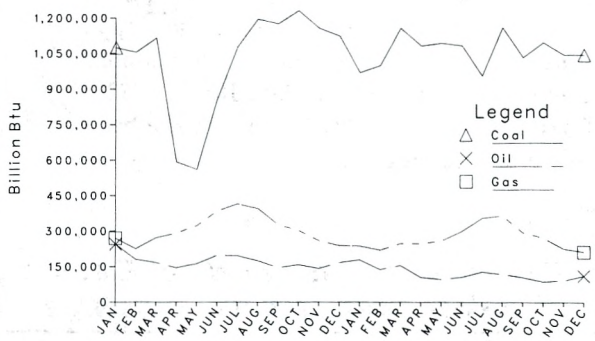
Table 6. Total Cost of Fossil Fuel Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1981-1982 (Million Dollars)

Fuel Type	1981 Total Bill	1982 Total Bill	Percent Change
Coal	18,722.2	20,992.5	12.1
Oil			
Steam	10,874.5	6,803.5	-37.4
Peaking	328.6	137.8	-58.1
Total Oil	**11,203.1**	**6,941.3**	**-38.0**
Gas			
Steam	9,969.4	10,674.9	7.1
Peaking	384.2	362.8	-5.6
Total Gas	**10,353.6**	**11,037.7**	**6.6**
Grand Total	**40,278.9**	**38,971.5**	**-3.2**

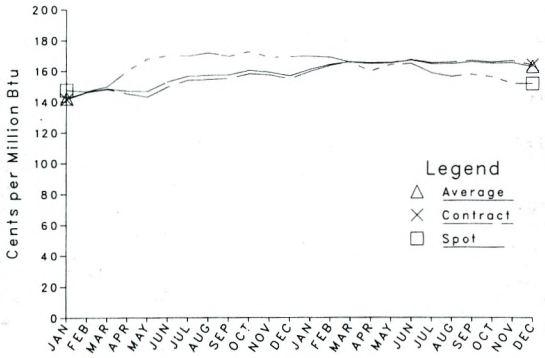
[1] This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

Highlights

Figure 1. Receipts of Fossil Fuels



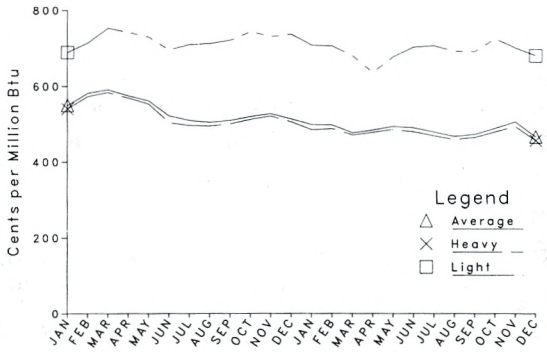
Source: FPC Form 423 1981/82.



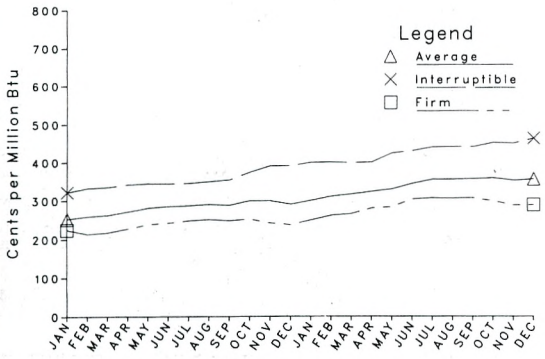
Source: FPC Form 423 1981/82

Figure 2. Average Cost of Coal in Cents per Million Btu

Figure 3. Average Cost of Oil in Cents per Million Btu



Source: FPC Form 423 1981/82.

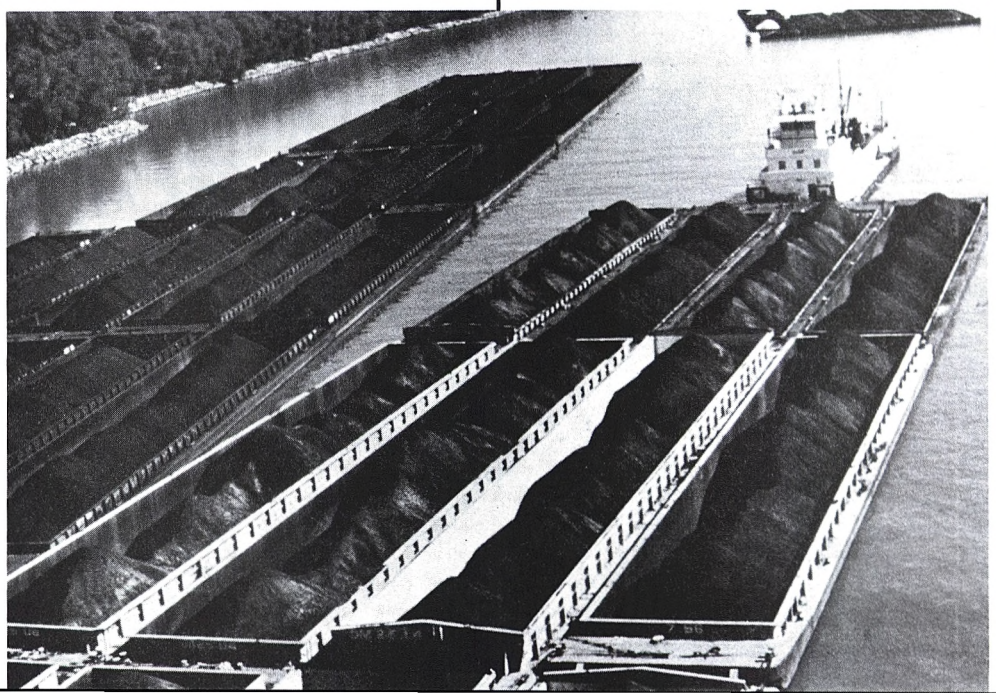


Source: FPC Form 423 1981/82.

Figure 4. Average Cost of Gas in Cents per Million Btu.

Discussion

FPC Form 423
Data



2. Discussion of Form 423 Data

Coal

In 1982, coal receipts at electric utilities for plants of 25-megawatt capacity or larger, totaled 601.4 million tons. The receipts increased 22.0 million tons, or 3.8 percent above 1981 shipments. The 20 largest recipients of coal accounted for 45.8 percent of all coal receipts to utilities in 1982. (See Section 2.6 of the "Technical Notes.")

Coal purchased on contracts accounted for 90.4 percent of receipts at electric utility plants. The remaining 9.6 percent was purchased in the spot market. As shown in Table 7, the proportion of total coal purchased in the contract market increased from the previous year.

The quantities of coal produced from surface mines decreased to 68.8 percent of the total coal receipts at electric utilities. In 1982, the weighted average receipt cost of all coal increased $2.59 to reach a record high of $34.90 per ton. Contract coal cost averaged $34.61 per ton, an increase of $3.27 per ton over the 1981 level, while spot coal cost averaged $37.64 per ton, a $1.16 per ton decrease below the average spot coal cost of 1981. Table 9 shows contract and spot coal costs for the period 1977-1982. Figure 6 shows contract and spot costs for 1981-1982.

The cost of coal bought under contract ranged from an average of $19.64 per ton in the Western Region to an average of $44.62 per ton in the Southeastern Region. Regional spot costs were also highest in the Southeastern Region.

In 1982, the sulfur content averaged 1.51 percent by weight, as compared to 1.50 percent in 1981. The heating value of utility coal shipments averaged 10,598 Btu per pound this year, compared to last year's average of 10,543 Btu per pound. The grades of coal receipts at electric utilities during the 5-year period 1978-1982 are shown in Table 11.

Table 7. Contract and Spot Coal Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1980-1982

Type of Purchase	1980		1981		1982	
	Quantity (million tons)	Percent of Total	Quantity (million tons)	Percent of Total	Quantity (million tons)	Percent of Total
Contract	525.6	88.5	503.4	86.9	543.8	90.4
Spot	68.4	11.5	75.9	13.1	57.7	9.6
Total	**594.0**	**100.0**	**579.4**	**100.0**	**601.4**	**100.0**

Notes: Totals may not equal sum of components because of independent rounding. This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

Table 8. Surface and Underground-Mined Coal Receipts Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1976-1982

Year	Surface-Mined		Deep-Mined	
	Quantity (thousand tons)	Percent of Total	Quantity (thousand tons)	Percent of Total
1976	307,389	67.6	147,408	32.4
1977	342,969	69.9	147,445	30.1
1978	351,129	73.7	125,039	26.3
1979	393,677	70.7	162,881	29.3
1980	422,300	71.1	171,696	28.9
1981	417,793	72.1	161,580	27.9
1982	413,721	68.8	187,706	31.2

Note: This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

Table 9. Contract and Spot Coal Cost at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1977-1982 (Dollars per Ton)

Type of Purchase	1977	1978	1979	1980	1981	1982
Contract	19.25	22.19	25.77	28.31	31.34	34.61
Spot	24.99	29.56	28.72	32.21	38.80	37.64
Average	**20.37**	**23.75**	**26.15**	**28.76**	**32.31**	**34.90**

Note: This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

Discussion

Table 10. Regional Quantities and Cost of Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger in 1982

Destination	Contract Coal			Spot Coal		
	Quantity (thousand tons)	Cost (cents per million Btu)	Cost (dollars per ton)	Quantity (thousand tons)	Cost (cents per million Btu)	Cost (dollars per ton)
Northeastern						
New England and Middle Atlantic	38,673.3	178.5	43.91	14,708.2	164.4	40.55
Midwestern						
East North Central and West North Central	201,848.4	165.1	33.75	20,077.4	152.1	35.05
Southeastern						
South Atlantic and East South Central	156,006.0	185.7	44.62	18,788.1	168.9	41.13
West South Central	71,888.0	165.6	26.01	2,426.9	117.2	12.95
Western						
Mountain and Pacific	75,334.6	102.4	19.64	1,675.9	172.5	39.85
Total	**543,750.4**	**165.1**	**34.61**	57,676.5	**161.0**	**37.64**

Notes: Totals may not equal sum of components because of independent rounding. This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

Table 11. Coal Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1978-1982

Grades of Coal	Quantity (thousand tons)	Percent of Total	Average (Btu per pound)	Average Percent Sulfur	Average Cost (cents per million Btu)
1978					
Bituminous	354,019	74.4	11,368	2.20	121.8
Subbituminous	90,519	19.0	9,169	.57	79.1
Lignite	30,611	6.4	6,605	.68	45.0
Anthracite	1,019	.2	8,552	.67	66.7
Total	**476,169.0**	**100.0**	**10,638.0**	**1.80**	**111.6**
1979					
Bituminous	406,845	73.1	11,483	2.15	130.9
Subbituminous	110,682	19.9	9,164	.54	99.9
Lignite	37,885	6.8	6,570	.69	56.2
Anthracite	1,146	.2	8,727	.60	80.1
Total	**556,558.0**	**100.2**	**10,685.0**	**1.70**	**122.4**
1980					
Bituminous	410,518	69.1	11,634	2.06	144.9
Subbituminous	139,705	23.5	9,050	.53	114.0
Lignite	42,712	7.2	6,435	.70	62.8
Anthracite	1,061	.2	8,826	.62	98.5
Total	**593,995.0**	**100.0**	**10,647.0**	**1.60**	**135.1**
1981					
Bituminous	381,519	65.9	11,645	2.01	165.1
Subbituminous	151,933	26.2	9,001	.50	130.9
Lignite	45,109	7.8	6,448	.66	78.1
Anthracite	812	.1	9,084	.64	115.4
Total	**579,374.0**	**100.0**	**10,543.0**	**1.50**	**153.2**
1982					
Bituminous	388,505	64.6	11,786	2.03	175.1
Subbituminous	165,507	27.5	8,971	.49	148.5
Lignite	46,534	7.7	6,494	.76	86.7
Anthracite	882	.1	9,080	.67	126.9
Total	**601,427.0**	**100.0**	**10,598.0**	**1.51**	**164.7**

Notes: Totals may not equal sum of components because of independent rounding. This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

Discussion

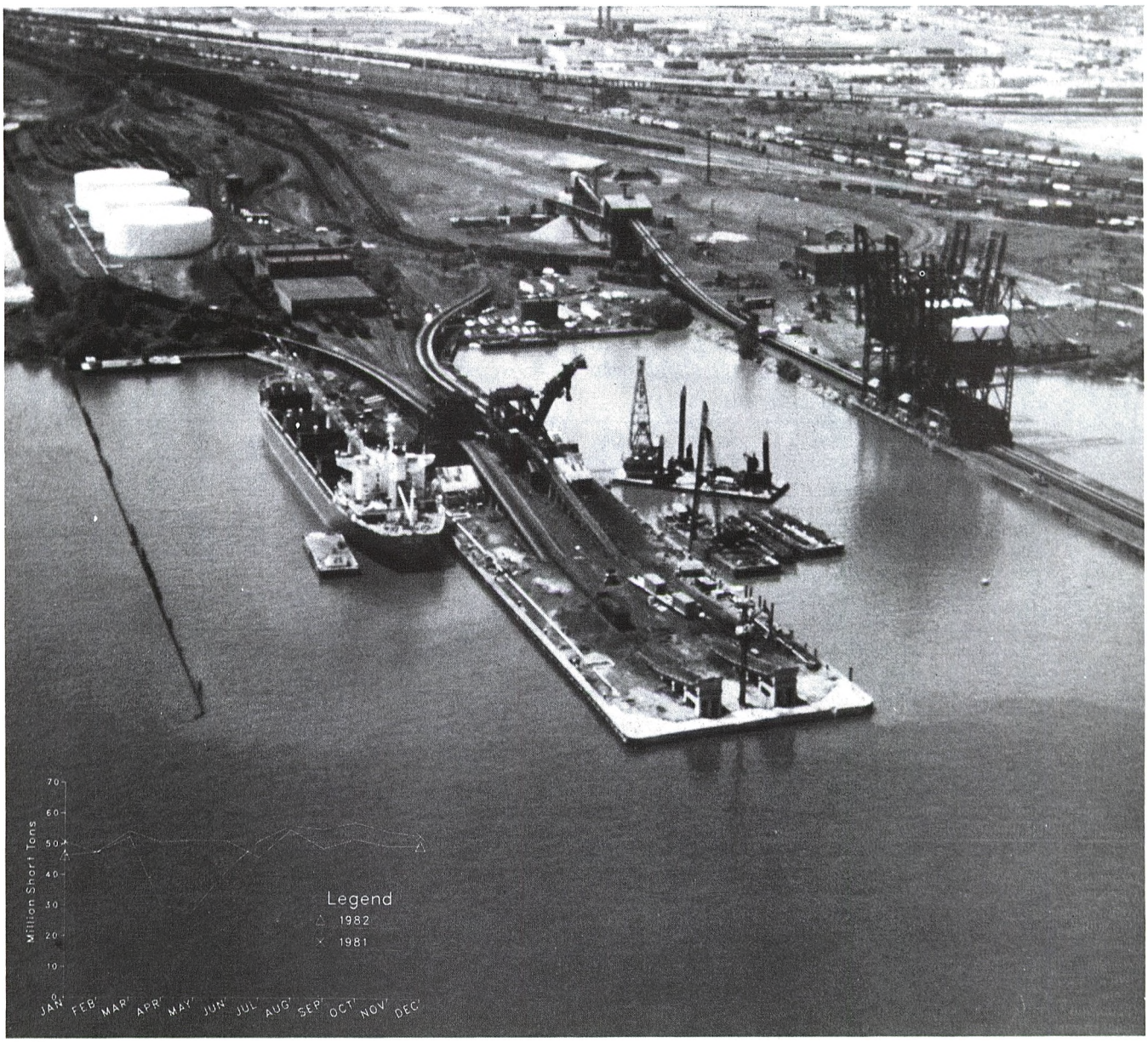


Figure 5. Receipts of Coal

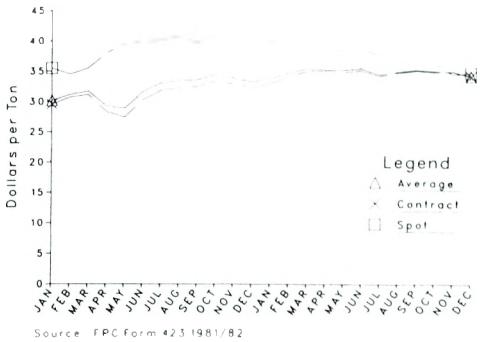


Figure 6. Average Cost of Coal in Dollars per Short Ton

Discussion

Oil

From January to December 1982, the average refiner acquisition cost of crude oil decreased 7.8 percent.[1] The national retail cost of residual oil decreased from $29.83 per barrel in January 1982, to $28.47 per barrel in December of the same year, a decrease of 4.6 percent.[2]

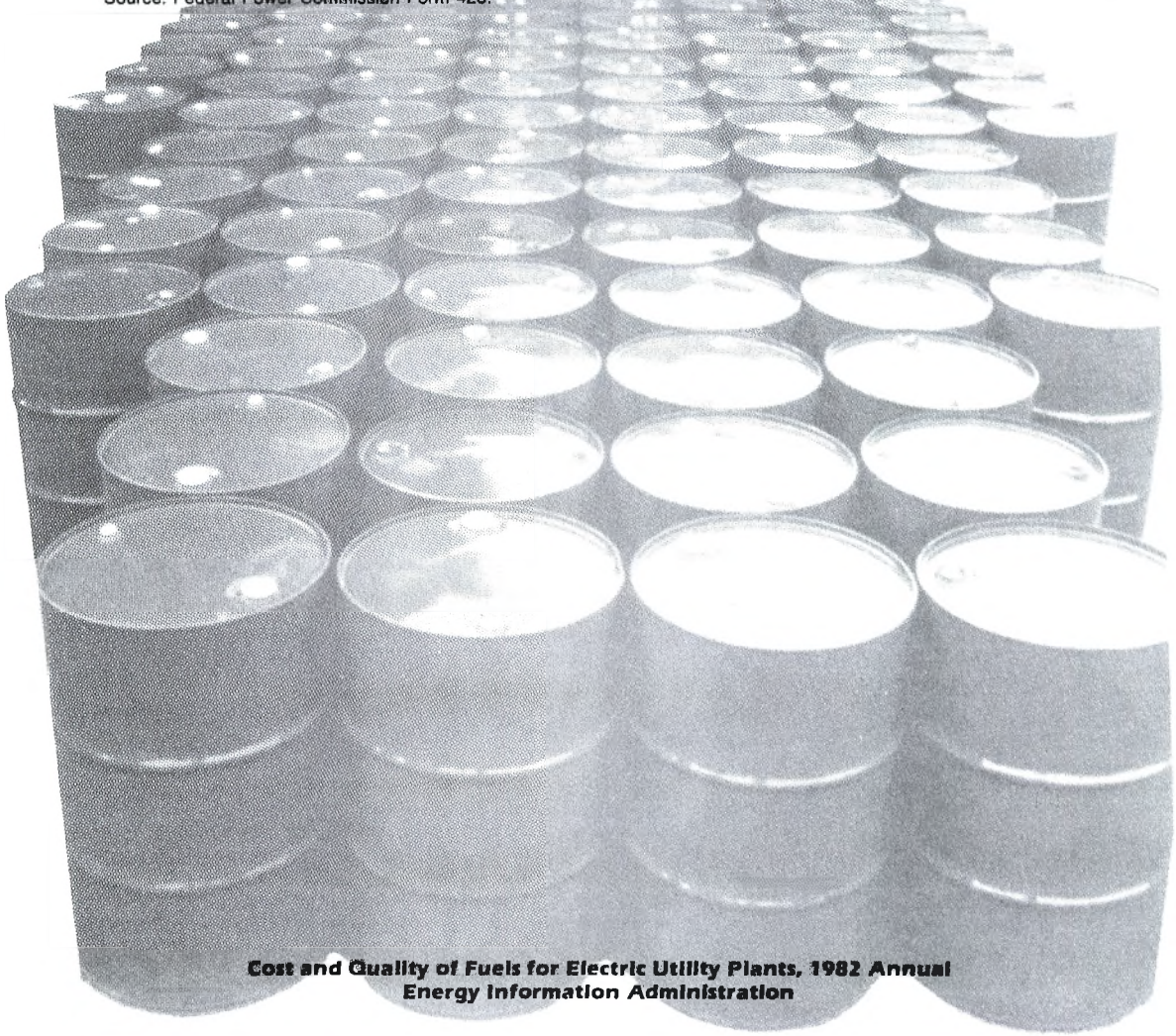
As a result of the significant decreases in utility demand for residual oil, the principal liquid fuel used by electric utilities declined from 316.1 million barrels in 1981 to 217.7 million barrels in 1982, a decline of 31.1 percent.

In 1982, all oil shipments to electric utilities for plants of 25-megawatt capacity or larger, decreased 31.5 percent below last year to a total of 229.2 million barrels. Utilities received 225.7 million barrels for steam-electric use, with the remaining 3.4 million barrels going to peaking units. Residual oil (FO6) shipments to steam-electric plants totaled 217.5 million barrels and comprised 96.4 percent of the oil receipts at steam-electric plants. Distillate oil (FO2) shipments totaled 10.0 million barrels, including 2.8 million barrels to peaking units. In 1982, distillate oil comprised 81.7 percent of peaking oil purchases, as shown in Table 12.

Table 12. Petroleum Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger in 1982 (Million Barrels)

Grades of Petroleum	Steam-Electric Plants		Peaking Units	
	Quantity	Percent of Total	Quantity	Percent of Total
Jet Fuel, Kerosene	0.0	0.0	0.4	12.8
Distillate (FO2)	7.2	3.2	2.8	81.7
FO4,FO5	1.0	.4	.0	.0
Residual (FO6)	217.5	96.4	.2	5.5
Crude, Topped Crude	.0	.0	.0	.0
Total	**225.7**	**100.0**	**3.4**	**100.0**

Notes: Totals may not equal sum of components because of independent rounding. This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.



Discussion

The regional receipts of oil to electric utilities decreased in all regions except the West North Central, as shown in Table 13.

In 1982, a total of 161 utilities, including those in Alaska and Hawaii, reported oil purchases on FPC Form 423; the 20 largest oil purchasing utilities received 77.7 percent of the oil. These 20 utilities also accounted for 76.8 percent of the total oil expenditures reported by all utilities. Section 2.6 of the "Technical Notes" lists the 20 largest oil purchasing utilities.

The average cost of oil at steam-electric plants was 481.9 cents per million Btu, a decrease of 9.9 percent from the 1981 cost level (see Table 14). The cost paid by steam-electric plants for distillate oil (FO2) averaged 690.6 cents per million Btu, down 2.8 percent from the previous year's level of 710.8 cents per million Btu. The average sulfur content of oil product receipts to steam-electric plants increased to 1.2 percent and the average heating value rose 0.6 percent in 1982.

As might be expected, because of air pollution control standards, a premium is placed on low sulfur oil purchased by electric utilities. Accordingly, in 1982, the average cost of heavy oil (FO4, FO5, FO6, Crude, and Topped Crude) receipts at utilities was substantially higher in the low sulfur categories, as shown in Table 15.

[1] Based on data in Energy Information Administration Form 14, "Refiners Monthly Cost Report", and summarized in DOE/EIA-0035/04(83), **Monthly Energy Review**(7).

[2] Based on data in Federal Energy Administration Form P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices" and summarized in DOE/EIA0035/04(83), **Monthly Energy Review**(7).

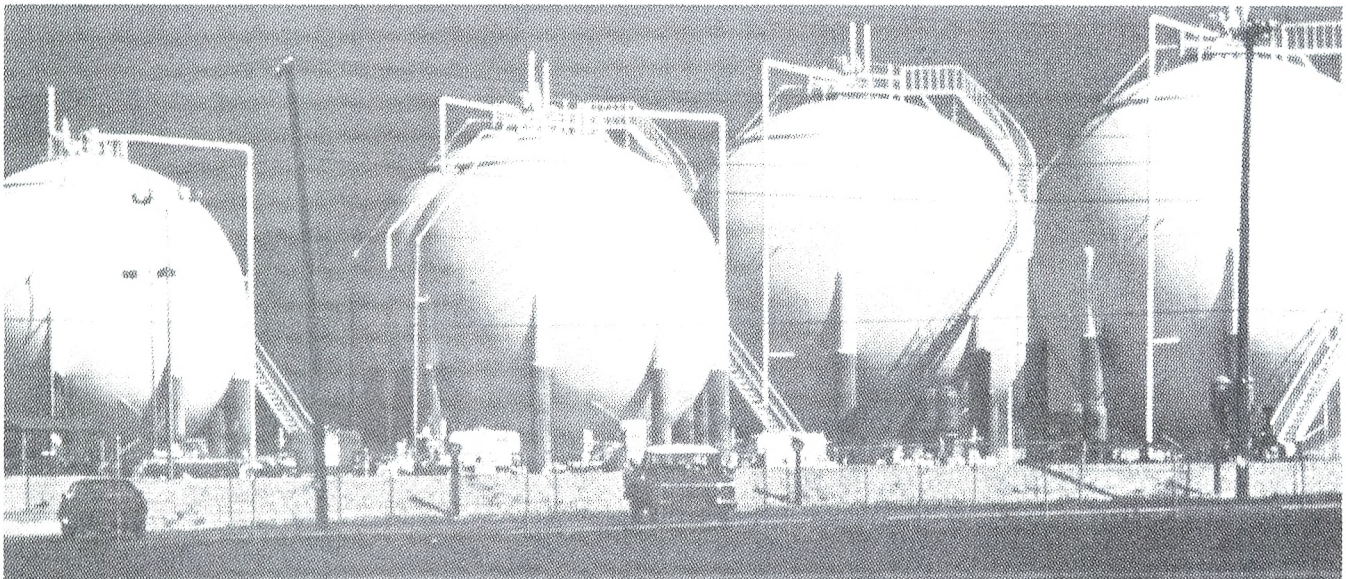


Table 13. Regional Petroleum Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1980-1982 (Thousand Barrels)

Census Regions	1980	1981		1982	
	Quantity	Quantity	Percent Change from 1980	Quantity	Percent Change from 1981
New England	74,992.7	67,514.2	-9.7	55,103.7	-18.4
Middle Atlantic	95,534.1	91,569.0	-3.9	74,689.9	-18.4
East North Central	26,531.3	18,771.7	-29.0	11,608.7	-38.2
West North Central	2,265.0	935.4	-58.6	1,294.6	38.4
South Atlantic	110,290.2	97,750.8	-11.1	68,241.2	-30.2
East South Central	6,045.0	3,344.0	-44.5	918.5	-72.5
West South Central	12,841.1	6,874.4	-46.3	3,547.1	-48.4
Mountain	5,323.4	779.4	-85.3	622.3	-20.2
Pacific	74,784.6	47,140.5	-36.8	13,129.9	-72.1
Total	**408,607.4**	**334,769.4**	**-19.4**	**229,155.9**	**-31.5**

Notes: Totals may not equal sum of components because of independent rounding. Percent change is based on daily averages. This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

Discussion

Table 14. Average Cost of Fuel Oil Receipts at Electric Utilities for Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1980-1982 (Cents per Million Btu)

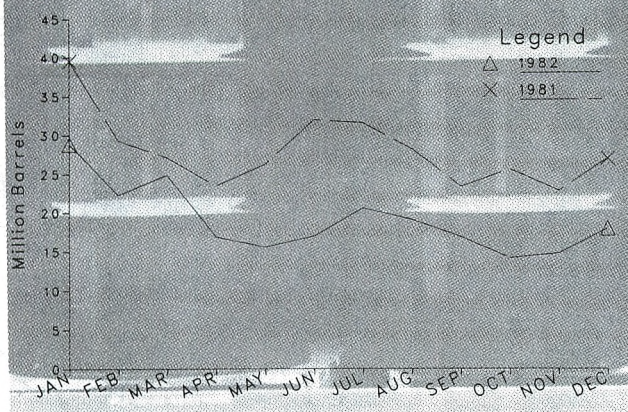
Type of Oil	1980	1981	1982	Percent Change from 1981
Distillate (FO2)	569.9	710.8	690.6	-2.8
FO4, FO5	496.5	611.8	568.9	-7.0
Residual (FO6)	427.6	529.1	475.1	-10.2
Crude, Topped Crude	633.5	-	-	-
Average All Receipts	**431.5**	**534.6**	**481.9**	**-9.9**

- = Not applicable.
Note: This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

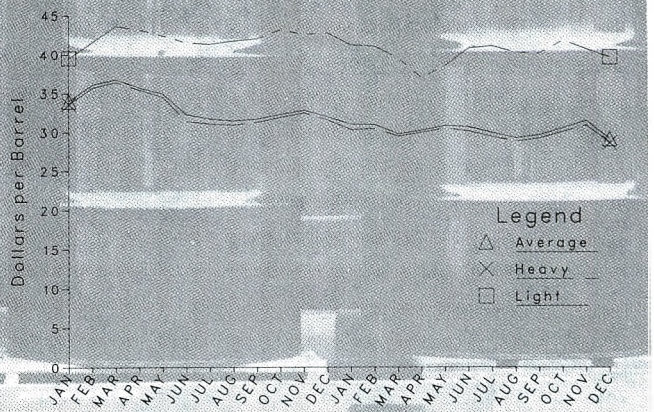
Table 15. Cost of Heavy Oil Receipts by Sulfur Category at Electric Utilities for Plants of 25-Megawatt Capacity or Larger in 1982

Sulfur Content (percent by weight)	Quantity of Receipts (million barrels)	Average Cost of Receipts (cents per million Btu)
0.00 to 1.00	123.9	526.1
1.01 to 2.00	36.2	425.0
2.01 or more	58.6	407.8

Note: This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.



Source: FPC Form 423 1981/82
Figure 7. Receipts of Oil



Source: FPC 423 1981/82
Figure 8. Average Cost of Oil in Dollars per Barrel

Discussion

Gas

During 1982, utilities received 3,138.2 billion cubic feet (Bcf) of natural gas and other gas products. This represents an 11.7 percent decrease from the 1981 level, as shown in Table 16. The bulk of the gas (96.4 percent in 1982) was purchased for use in utility steam boilers.

Only generating plants with a capacity of 25 megawatts or larger are required to submit information on Form 423; however, Form EIA-759, Monthly Power Plant Report, covers all electric utility generating plants. In 1982, electric utilities reported gas consumption totaling 3,226.0 Bcf on Form EIA-759. During the same period, electric utilities reported gas receipts of 3,138.2 Bcf on Form 423. Assuming all gas received in 1982 was consumed during the year, Form 423 covered 97.3 percent of gas consumption.

In 1982, the gas purchases in the West South Central Region (WSC) decreased from 1981. During 1982, gas receipts at plants in the WSC Region were 61.5 percent of the receipts at steam-electric plants in the country, while the rest of the country accounted for 38.5 percent of the total in 1982 as compared to 39.3 percent of the total in 1981.

In 1982, the cost of gas to steam-electric plants averaged 340.6 cents per million Btu, an increase of 58.1 cents per million Btu over the average cost of similar gas receipts of last year. Table 18 shows the average cost of steam-electric gas from 1976-1982. The national average of firm and interruptible gas cost rose to 289.5 and 431.0 cents per million Btu, respectively.

In 1982, a total of 186 utilities, including those in Alaska and Hawaii, reported natural gas purchases on FPC Form 423. The 20 largest gas consuming utilities received 78.5 percent of the natural gas. These same 20 utilities also accounted for 77.2 percent of the total gas expenditures reported by all utilities. Section 2.6 of the "Technical Notes" lists the 20 largest gas consuming utilities.

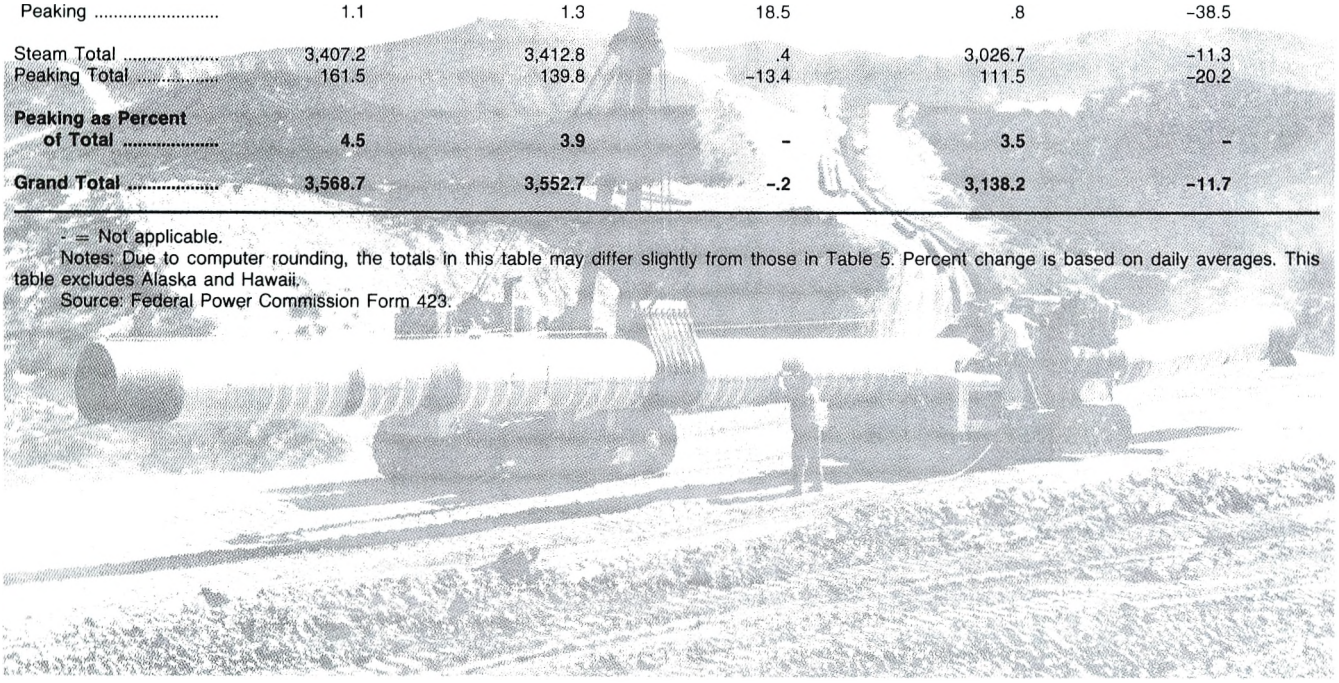
Table 16. Gas Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1980-1982 (Billion Cubic Feet)

Type of Purchase	1980	1981		1982	
	Quantity	Quantity	Percent Change from 1980	Quantity	Percent Change from 1981
Firm	2,221.6	2,181.8	-1.5	2,010.8	-7.8
Steam	2,129.2	2,094.2	-1.4	1,934.2	-7.6
Peaking	92.5	87.5	-5.1	76.7	-12.3
Interruptible	1,324.0	1,344.7	1.8	1,103.7	-17.9
Steam	1,256.1	1,293.7	3.3	1,069.7	-17.3
Peaking	67.9	51.0	-24.7	34.0	-33.3
Off-Peak	23.1	26.1	13.3	23.7	-9.2
Steam	22.0	24.8	13.0	22.9	-7.7
Peaking	1.1	1.3	18.5	.8	-38.5
Steam Total	3,407.2	3,412.8	.4	3,026.7	-11.3
Peaking Total	161.5	139.8	-13.4	111.5	-20.2
Peaking as Percent of Total	**4.5**	**3.9**	**-**	**3.5**	**-**
Grand Total	**3,568.7**	**3,552.7**	**-.2**	**3,138.2**	**-11.7**

- = Not applicable.

Notes: Due to computer rounding, the totals in this table may differ slightly from those in Table 5. Percent change is based on daily averages. This table excludes Alaska and Hawaii.

Source: Federal Power Commission Form 423.



Discussion

Table 17. Gas Receipts at Electric Utilities for Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1977-1982 (Billion Cubic Feet)

Region or State	1977	1978	1979	1980	1981	1982	Percent Change from 1981
West South Central[1]	2,114.0	2,173.9	2,084.7	2,166.5	2,072.6	1,861.6	-10.2
Percent of Total	70.4	72.3	64.2	63.6	60.7	61.5	-
California	358.8	297.7	444.1	502.6	645.1	524.6	-18.7
Percent of Total	11.9	9.9	13.7	14.8	18.9	17.3	-
Remaining States	530.6	536.7	719.8	738.1	695.1	640.6	-7.8
Percent of Total	17.7	17.8	22.2	21.7	20.4	21.2	-
Total	**3,003.3**	**3,008.3**	**3,248.6**	**3,407.2**	**3,412.8**	**3,026.7**	**-11.3**

[1] Includes Arkansas, Louisiana, Oklahoma, and Texas

- = Not applicable.

Notes: Totals may not equal sum of components because of independent rounding. Percent change is based on daily averages. This table excludes Alaska and Hawaii.

Source: Federal Power Commission Form 423.

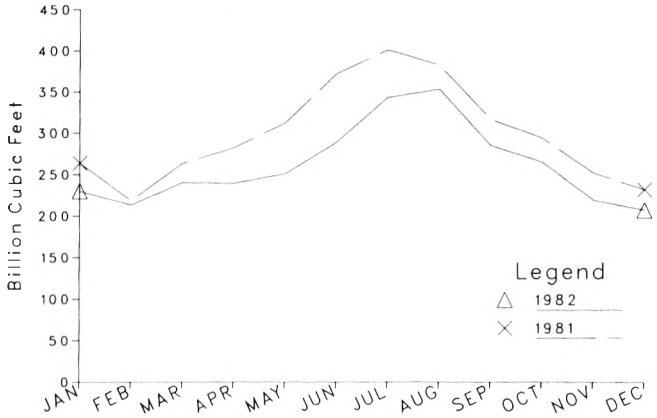
Table 18. Cost of Gas Receipts at Electric Utilities for Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1976-1982 (Cents per Million Btu)

Type of Purchase	1976	1977	1978	1979	1980	1981	1982
Firm	93.6	112.8	129.3	152.0	182.3	238.5	289.5
Interruptible	124.1	165.8	179.9	216.5	286.7	351.1	431.0
Off-Peak	101.1	132.0	105.5	271.4	295.0	386.8	401.2
Average	**103.4**	**130.0**	**143.8**	**175.4**	**221.4**	**282.5**	**340.3**

Note: This table excludes Alaska and Hawaii.

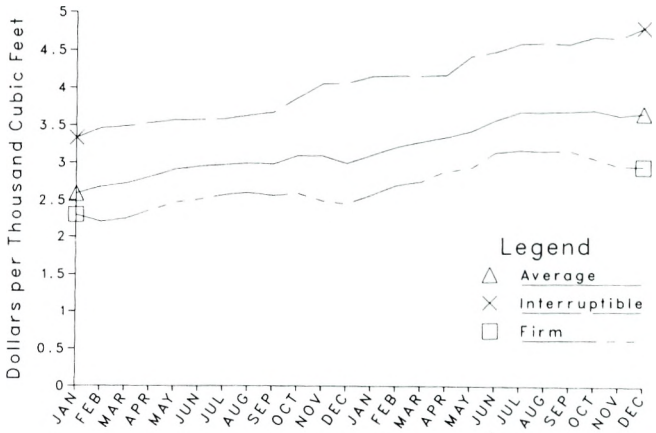
Source: Federal Power Commission Form 423.

Discussion



Source: FPC Form 423 1981/82.

Figure 9. Receipts of Gas Source: FPC Form 423 1981/82.



Source: FPC Form 423 1981/82.

Figure 10. Average Cost of Gas in Dollars per Thousand Cubic Feet

Discussion

Origin-Destination of Coal for Electric Utilities

Total 1982 receipts of coal at steam-electric plants increased to 601.4 million tons, a 3.8 percent increase from last year's level. As seen in Table 19, most geographic regions experienced increases in coal receipts. Eastern region receipts were up 2.4 percent while western region receipts increased 6.2 percent.

Historically, eastern mines have dominated the electric utility market with large producing States like Kentucky, Illinois, West Virginia, Pennsylvania, and Ohio supplying most of the demand.

During the past 8 years, the majority of incremental utility coal requirements has been met by coal produced in mines west of the Mississippi River. Using 1975 as a base year, Table 21 shows the continued growth of western coal both quantitatively and as a percent of total coal receipts at electric utilities in each of the past 8 years. During this period, receipts from the Northern Great Plains nearly tripled, while shipments from the Mountain Province have more than doubled. Also, receipts of Texas lignite, while limited to utilities in Texas, have tripled during the period.

The 1982 coal receipts from the five largest western coal producing States and a comparison of the 1973 receipts are given in Table 22.

Of the 243.2 million tons of coal produced from western mines for electric utility consumption, about 87.3 percent, or 212.4 million tons, remained in the West, while 30.8 million tons were delivered to eastern utilites. Most of the coal shipped to eastern utilities originated in Wyoming and Montana and was delivered to utilities in the East North Central Region, as shown in Table 23.

Detailed qualitative and quantitative information on the origin and destination of coal receipts at electric utilities in 1982 is presented in Chapters 4 and 5 of this report. Table 24 summarizes the quantities of steam-electric coal moved between producing and consuming States in 1982.

Table 19. Regional Coal Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1981-1982 (Thousand Tons)

Destination	Receipts in 1981	Receipts in 1982	Quantitative Difference	Percent Change
Eastern Regions				
New England	2,023	3,990	1,967	97.2
Middle Atlantic	48,944	49,391	447	.9
East North Central	142,617	143,133	516	.4
South Atlantic	106,060	109,047	2,987	2.8
East South Central	63,069	65,747	2,678	4.2
Subtotal	**362,713**	**371,308**	**8,595**	**2.4**
Western Regions				
West North Central	75,665	78,793	3,128	4.1
West South Central	69,395	74,315	4,920	7.1
Mountain	66,037	71,476	5,439	8.2
Pacific	5,564	5,535	-29	-.5
Subtotal	**216,661**	**230,119**	**13,458**	**6.2**
Total	**579,374**	**601,427**	**22,053**	**3.8**

Notes: Totals may not equal sum of components because of independent rounding. Percent change is based on daily averages. This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

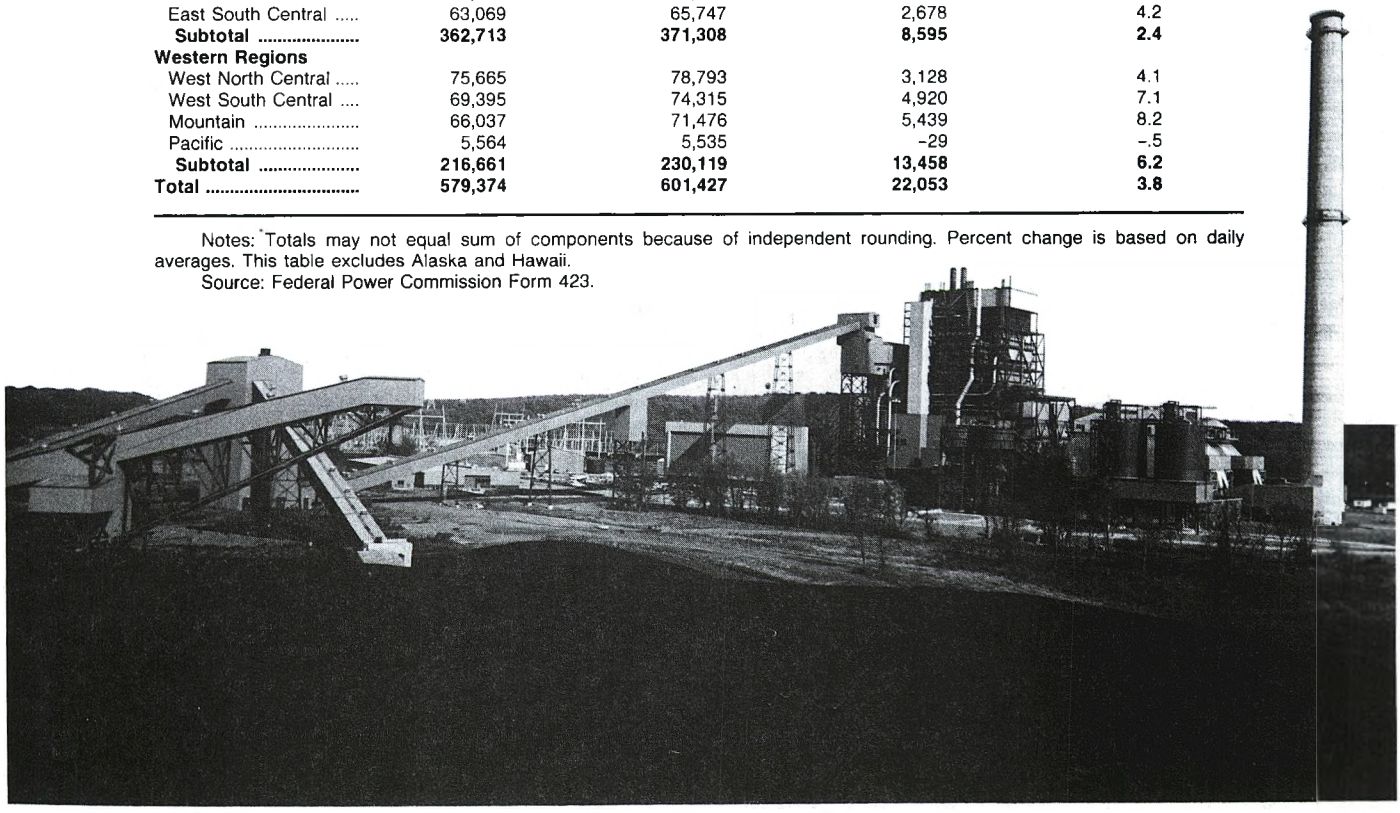


Table 20. Receipts of Coal from the Five Largest Coal Producing States East of the Mississippi River at Electric Utilities for Plants of 25-Megawatt Capacity or Larger in 1973 and 1982 (Million Tons)

Origin	Quantity in 1973	Quantity in 1982	Quantitative Difference	Average Annual Rate of Growth (percent)
Kentucky	86.9	106.1	19.2	2.2
West Virginia	47.3	63.7	16.4	3.4
Illinois	48.9	51.6	2.7	.1
Pennsylvania	39.6	46.3	6.7	1.8
Ohio	37.2	31.1	-6.1	-2.0
Total	**259.9**	**298.8**	**38.9**	**1.6**

Source: Federal Power Commission Form 423.
Notes: Totals may not equal sum of components because of independent rounding.

Table 21. Origin of Domestic Bituminous Coal and Lignite Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1975-1982 (Million Tons)

Origin	1975	1976	1977	1978	1979	1980	1981	1982	Average Annual Rate of Growth (percent)
Eastern Deposits									
Appalachia[1]	209.0	215.6	229.8	214.3	243.5	249.6	238.3	244.9	2.3
Interior Province (Eastern Region)[2]	125.8	122.4	118.0	99.1	117.9	119.1	101.6	111.8	-1.7
Subtotal	**334.8**	**338.0**	**347.8**	**313.4**	**361.4**	**368.7**	**339.9**	**356.7**	**1.0**
Percent of Total	**78.0**	**74.7**	**71.3**	**66.3**	**65.3**	**62.3**	**58.8**	**59.5**	**-**
Western Deposits									
Interior Province (Western Region)[3]	8.4	9.4	10.2	9.8	9.8	8.8	7.7	7.8	-1.1
Northern Great Plains[4]	54.1	64.4	82.2	96.7	114.5	137.9	151.4	151.2	15.8
Mountain Province[5]	22.8	29.0	33.7	34.4	43.3	49.5	50.1	54.1	13.1
Texas Lignite Region	9.1	11.0	14.2	18.2	24.8	27.0	28.8	30.1	18.6
Subtotal	**94.4**	**114.7**	**140.3**	**159.1**	**192.4**	**223.2**	**237.9**	**243.2**	**14.5**
Percent of Total	**22.0**	**25.3**	**28.7**	**33.7**	**34.7**	**37.7**	**41.2**	**40.5**	**-**
Total	**429.2**	**452.7**	**488.1**	**472.5**	**553.8**	**592.0**	**577.8**	**599.9**	**4.9**

[1] Includes eastern Kentucky, eastern Tennessee, Virginia, Maryland, West Virginia, Ohio, Pennsylvania, Alabama Georgia, and west Tennessee.
[2] Includes Illinois, Indiana, and western Kentucky.
[3] Includes Arkansas, Iowa, Kansas, Missouri, and Oklahoma.
[4] Includes Wyoming, Montana, North and South Dakota, as well as coal produced in Centralia, Washington.
[5] Includes New Mexico, Arizona, Colorado, and Utah.
- = Not applicable.
Notes: Totals may not equal the sum of components because of independent rounding. This table excludes anthracite and imported coal receipts.
Source: Federal Power Commission Form 423.

Table 22. Receipts of Coal from the Five Largest Western Coal Producing States at Electric Utilities for Plants of 25-Megawatt Capacity or Larger in 1973 and 1982 (Million Tons)

Origin	Quantity in 1973	Quantity in 1982	Quantitative Difference	Average Annual Growth Rate (percent)
Wyoming	13.1	102.5	89.4	25.7
Texas	4.7	30.1	25.4	22.9
Montana	10.6	28.0	17.4	11.4
New Mexico	8.3	18.4	10.1	9.2
North Dakota	5.3	16.3	11.0	13.3
Total	**42.0**	**195.3**	**153.3**	**18.6**

Source: Federal Power Commission Form 423.
Notes: Totals may not equal sum of components because of independent rounding.

Table 23. Destination of Western Coal Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger in 1981 and 1982 (Thousand Tons)

Destination	Receipts in 1981	Receipts in 1982	Quantitative Difference	Percent Change
Eastern Regions				
New England	0	0	0	0.0
Middle Atlantic	0	0	0	.0
East North Central	34,943	28,811	-6,132	-17.5
South Atlantic	286	364	78	27.3
East South Central	1,346	1,620	274	20.4
Subtotal	**36,576**	**30,794**	**-5,782**	**-15.8**
Percent of Total	**15.4**	**12.7**	**-**	**-**
Western Regions				
West North Central	60,588	61,119	531	.9
West South Central	69,395	74,315	4,920	7.1
Mountain	65,805	71,476	5,671	8.6
Pacific	5,564	5,535	-29	-.5
Subtotal	**201,353**	**212,445**	**11,092**	**5.5**
Percent of Total	**84.6**	**87.3**	**-**	**-**
Total	**237,929**	**243,239**	**5,310**	**2.2**

- = Not applicable.
Notes: Totals may not equal sum of components because of independent rounding. Percent change is based on daily averages. Totals in Tables 21 and 23 may not be equal due to rounding. Western deposits are as defined in Table 21. This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

Discussion

Table 24. Origin and Destination of Coal Receipts at Steam-Electric Plants of 25 Megawatt Capacity or Larger, 1982 (Thousand Short Tons)

Origin	Alabama	Arizona	Colorado	Georgia	Illinois	Indiana	Iowa	Kansas	Kentucky	Maryland	Missouri	Montana	N Mexico
Destination													
Alabama	12,526.8	-	-	-	-	25.9	-	-	1,892.8	-	-	-	-
Arizona	-	7,465.0	-	-	-	-	-	-	-	-	-	-	5,988.0
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	8,079.8	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	7.0	-	-	-	-
Florida	240.4	-	-	-	1,279.5	7.1	-	-	6,346.2	-	-	-	-
Georgia	520.6	-	-	-	5,083.1	1,279.7	-	-	11,969.6	-	-	-	-
Illinois	-	-	1,410.6	-	16,821.1	957.9	-	-	1,439.1	-	11.9	2,145.6	-
Indiana	-	-	1,013.4	-	7,151.8	17,336.5	-	-	2,587.4	-	-	1,504.0	-
Iowa	-	-	136.0	-	1,536.9	50.4	211.8	-	-	-	338.0	213.4	-
Kansas	-	-	5.5	-	467.5	-	-	737.8	-	-	590.3	-	-
Kentucky	-	-	-	-	69.3	2,653.4	-	-	21,132.1	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	1,132.0	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	348.3	116.6	-	-	9,580.7	-	-	3,702.5	-
Minnesota	-	-	-	-	576.9	7.8	-	-	19.3	-	-	10,038.7	-
Mississippi	549.0	-	804.5	-	291.8	24.0	-	-	1,344.3	-	-	-	-
Missouri	-	-	154.0	-	14,686.6	265.2	-	701.9	33.7	-	3,421.1	-	-
Montana	-	-	-	-	-	-	-	-	-	-	-	2,601.1	-
Nebraska	-	-	232.5	-	-	-	-	1.7	-	-	-	-	-
Nevada	-	4,788.0	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	71.7	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-	12,362.5
New York	-	-	-	-	-	-	-	-	248.0	-	-	-	-
North Carolina	-	-	-	-	-	-	-	-	11,030.7	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	49.3	-	-	9,656.6	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania		-	-	-	-	-	-	-	195.7	7.4	-	-	-
South Carolina	-	-	-	-	-	-	-	-	7,407.8	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	32.4	-	-	4.4	11.6	604.7	-	-	14,590.3	-	-	-	-
Texas	-	-	2,035.9	-	-	-	-	-	-	-	-	5,372.7	-
Utah	-	-		-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	2,936.1	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	1,557.7	183.8	-	-	-
Wisconsin	-	-	-	-	3,294.9	403.4	-	-	2,098.9	-	-	2,462.3	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	13,869.1	12,253.0	13,874.2	4.4	51,619.2	23,782.0	211.8	1,441.4	106,145.7	1,323.1	4,361.3	28,040.3	18,350.5

Note: Totals may not equal the sum of the component parts because of independent rounding.
Source: Federal Power Commission Form 423.

Table 24. Origin and Destination of Coal Receipts at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982 (Thousand Short Tons)

Origin	N Dakota	Ohio	Oklahoma	Penn.	Tenn.	Texas	Utah	Virginia	Wash.	W Va.	Wyoming	Imported	Total
Destination													
Alabama	-	2,538.3	-	-	302.8	-	-	-	-	280.3	-	-	17,566.7
Arizona	-	-	-	-	-	-	99.0	-	-	-	-	-	13,552.0
Arkansas	-	-	-	-	-	-	-	-	-	-	7,401.1	-	7,401.1
Colorado	-	-	-	-	-	-	-	-	-	-	3,953.7	-	12,033.5
Delaware	-	-	-	1,250.7	-	-	-	66.4	-	606.0	-	-	1,930.2
Florida	-	-	330.3	-	-	19.8	-	285.9	-	723.0	13.4	605.0	9,850.6
Georgia	-	-	-	-	1,174.0	-	-	1,142.2	-	-	-	-	21,169.2
Illinois	-	-	-	-	-	-	-	-	-	-	8,122.0	-	30,908.2
Indiana	-	18.3	-	-	-	-	809.0	-	-	252.0	1,424.2	-	32,096.6
Iowa	-	-	34.1	-	-	-	-	-	-	-	8,182.6	-	10,705.3
Kansas	-	-	154.4	-	-	-	-	-	-	-	9,223.2	-	11,178.7
Kentucky	-	480.4	-	11.3	208.8	-	-	282.8	-	797.2	-	-	25,635.3
Louisiana	-	-	-	-	-	-	-	-	-	-	2,547.8	-	2,547.8
Maryland	-	-	-	3,410.5	-	-	-	-	-	1,243.0	-	-	5,785.5
Massachusetts	-	-	-	1,039.9	-	-	-	1,028.7	-	1,020.4	-	-	3,089.0
Michigan	-	1,472.4	-	771.2	34.2	-	-	49.0	-	5,122.5	-	-	21,197.4
Minnesota	454.8	2.3	-	-	26.9	-	-	-	-	-	-	-	11,126.7
Mississippi	-	-	-	-	-	-	815.0	-	-	-	.2	-	3,828.8
Missouri	-	-	1,268.7	-	-	-	-	-	-	-	3,336.6	-	23,867.8
Montana	-	-	-	-	-	-	-	-	-	-	-	-	2,601.1
Nebraska	-	-	1.6	-	-	-	134.4	-	-	-	5,480.7	-	5,850.9
Nevada	-	-	-	-	-	-	1,801.4	-	-	-	-	-	6,589.4
New Hampshire	-	-	-	25.8	-	-	-	-	-	836.2	-	-	862.0
New Jersey	-	-	-	389.5	-	-	-	534.4	-	1,883.0	-	-	2,878.6
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-	12,362.5
New York	-	-	-	5,762.8	-	-	-	-	-	571.1	-	-	6,581.9
North Carolina	-	-	-	-	315.6	-	-	6,983.7	-	6,587.3	-	-	24,917.3
North Dakota	13,846.0	-	-	-	-	-	-	-	-	-	-	-	13,846.0
Ohio	-	23,446.1	-	1,661.7	-	-	-	126.9	-	8,535.4	1,827.1	-	45,303.0
Oklahoma	-	-	-	-	-	-	-	-	-	-	10,723.3	-	10,723.3
Oregon	-	-	-	-	-	-	-	-	-	-	1,134.5	-	1,134.5
Pennsylvania	-	3,060.8	-	31,104.3	-	-	-	-	-	5,542.2	-	-	39,930.4
South Carolina	-	-	-	-	76.0	-	-	922.5	-	138.3	-	-	8,544.7
South Dakota	1,998.8	-	-	-	-	-	-	-	-	-	218.4	-	2,217.2
Tennessee	-	6.4	-	-	3,134.7	-	-	180.6	-	150.8	-	-	18,716.0
Texas	-	-	-	-	-	30,056.9	-	-	-	-	16,177.3	-	53,642.8
Utah	-	-	-	-	-	-	5,994.0	-	-	-	-	-	5,994.0
Vermont	-	-	-	39.6	-	-	-	-	-	-	-	-	39.6
Virginia	-	-	-	-	2.0	-	-	2,740.4	-	1,120.0	-	-	6,798.5
Washington	-	-	-	-	-	-	-	-	4,400.0	-	-	-	4,400.0
West Virginia	-	15.4	-	37.4	-	-	-	134.1	-	28,123.0	-	-	30,051.4
Wisconsin	-	38.8	-	823.2	-	-	-	-	-	127.9	4,378.6	-	13,627.9
Wyoming	-	-	-	-	-	-	-	-	-	-	18,343.5	-	18,343.5
Total	**16,299.6**	**31,099.1**	**1,789.2**	**46,328.0**	**5,275.1**	**30,076.7**	**9,652.8**	**14,477.6**	**4,400.0**	**63,659.5**	**102,488.2**	**605.0**	**601,426.9**

Note: Totals may not equal the sum of the component parts because of independent rounding.
Source: Federal Power Commission Form 423.

Discussion

Imported Coal Receipts at Electric Utilities

Electric utilities imported less than 1.0 million tons of coal from abroad in 1982, which amounted to less than one-quarter of 1 percent of the total electric utility coal demand. The coal averaged less than 1 percent sulfur and was received at an average cost of $51.68 per ton. As shown in Table 25, only one utility received imported coal in 1982.

Table 25. Imported Coal Receipts at Electric Utilities for Plants of 25-Megawatt Capacity or Larger, 1973-1982

Utility Name Year/Country	Receipts (thousand tons)	Average Btu per Pound	Cents per Million Btu	Dollars per Ton	Sulfur Content (percent)
Alabama Power Co.					
1974 Australia	71.3	11,436	142.9	32.69	0.85
1975 Australia	36.7	11,074	151.8	33.62	.60
1978 Australia	805.0	11,559	155.9	36.05	.54
Baltimore Gas & Elec.					
1976 Poland	8.0	11,951	133.7	31.95	.66
Central Power & Light					
1979 South Africa	41.7	10,931	174.8	38.22	.43
Gulf Power[1]					
1974 South Africa	65.3	12,101	99.3	24.03	.76
1975 South Africa	259.1	11,849	122.0	28.92	.57
1975 Australia	33.0	11,115	194.0	43.13	.50
1975 Canada	39.0	11,306	193.0	43.63	.40
1976 South Africa	747.6	11,667	108.8	25.39	.59
1977 South Africa	746.0	11,663	128.3	29.92	.74
1978 South Africa	861.8	11,880	146.0	34.70	.62
1979 South Africa	898.1	11,915	160.2	38.17	.64
1980 South Africa	749.8	11,908	187.8	44.72	.67
1981 South Africa	712.3	11,894	211.4	50.29	.70
1982 South Africa	605.0	11,950	216.2	51.68	.68
Mississippi Power					
1977 South Africa	59.5	11,514	119.9	27.61	.67
1977 Australia	117.5	11,364	141.2	32.09	.64
Montaup Electric					
1973 Poland	12.7	12,205	79.0	19.28	.80
1974 Poland	148.5	12,043	97.5	23.48	.68
1975 Poland	16.7	11,725	97.5	22.86	.70
New England Power					
1974 Poland	366.0	12,660	91.4	23.04	.66
1974 South Africa	198.0	11,962	146.3	34.99	.64
1974 Australia	117.0	12,270	149.7	36.74	.62
1975 Poland	123.0	12,523	92.7	23.23	.58
1975 South Africa	36.0	12,091	144.7	34.99	.70
1975 Australia	29.0	12,331	149.0	36.74	.50
Public Service of N.H.					
1978 Poland	60.7	12,447	147.0	36.60	1.83
Tampa Electric					
1976 Poland	309.5	12,070	107.8	26.01	1.01
1977 Poland	305.1	11,889	127.6	30.33	1.31
1978 Poland	717.9	11,874	141.1	33.51	.86
1978 South Africa	90.5	11,000	143.7	31.62	1.41
1978 Australia	56.6	11,700	159.8	37.39	.50
1979 Poland	548.6	11,874	152.7	36.27	.84
1979 South Africa	67.6	11,757	139.1	32.71	.80
1979 Australia	57.3	11,700	155.5	36.39	.50
1980 Poland	236.8	11,505	173.2	39.86	1.26

[1] Utilities that received coal from abroad in 1982.
Source: Federal Power Commission Form 423.

Discussion

Comparison of 1982 Sulfur Regulations With the Sulfur Content of Coal Receipts at Electric Utilities

In 1982, coal receipts at 183 companies reporting coal purchases on Form 423 totaled 601.4 million tons. A plant-by-plant comparison of the sulfur content of each coal shipment with the State Implementation Plan (SIP) and New Source Performance Standard (NSPS) regulations for sulfur dioxide (S02) emissions effective January 1982,[1] shows that 436.3 million tons, or 72.5 percent of all the coal, complied with the 1982 SO2 emission regulations as delivered. If, however, plants receiving both complying and noncomplying coal blended these shipments, an additional 37.3 million tons could have been brought into compliance, increasing the quantity of complying coal to 473.5 million tons, or 78.7 percent of the total. Still remaining out of compliance would be 127.9 million tons, or 21.3 percent of all 1982 coal shipments to electric utilities. Not taken into consideration are the many FGD units that enable electric utilities to burn noncomplying coal and yet meet SO2 emission regulations by removing sulfur from the flue gas. The detailed plant-by-plant information is presented in Chapter 6 and is summarized by State in Table 27.

Noncomplying coal purchased by utilities totaled 127.9 million tons. Of this total, 65.8 million tons was received by plants sited in geographic regions east of the Mississippi River. Moreover, most of these noncomplying shipments went to plants in Ohio, Indiana, Illinois, Kentucky, Pennsylvania, and West Virginia, States in which coal is the predominant boiler fuel. The bulk of the coal purchased by western power plants complied with sulfur regulations with much of the noncomplying coal in those States going to plants in Texas (20.6 million tons) and Wyoming (14.3 million tons).

Between 1981 and 1982, total coal shipments to electric utilities increased by 22.1 million tons, while the quantities of coal complying with SO2 emission regulations as received increased by 0.2 million tons.

The calculations of conforming and nonconforming coal (after blending) are based on an annual averaging of the entire quantity of coal received by each plant during the year. The sulfur variability in coal from shipment to shipment, even in coal from the same mine, may be considerable and many power plants which appear to be complying with SIP and NSPS regulations exceed the 3-hour regulations more than once a year.

Table 28 identifies electric utilities using FGD systems for compliance with SO2 emission regulations. The number of installed FGD units increased from 93 in 1981 to 95 in 1982. During 1982, the capacity of FGD systems increased 2.3 percent from 33,269 to 34,035 megawatts.

[1] The sulfur regulations used in this analysis were provided by the Environmental Protection Agency (EPA) and reflect SIP revisions as of January 1982.

Table 26. Regional Summary of Coal Receipts Conforming to Sulfur Regulations After Blending at Electric Utilities for Plants of 25-Megawatt Capacity or Larger in 1981 and 1982 (Thousand Tons)

Destination	1981			1982		
	Total Receipts	Quantity Conforming	Percent of Total	Total Receipts	Quantity Conforming	Percent of Total
Eastern Regions						
New England	2,023	1,902	94.0	3,991	3,951	99.0
Middle Atlantic	48,944	36,840	75.3	49,391	37,744	76.4
East North Central	142,617	125,414	87.9	143,133	116,851	81.6
South Atlantic	106,060	97,932	92.3	109,047	99,937	91.6
East South Central	63,069	38,485	61.0	65,747	47,044	71.6
Subtotal	**362,713**	**300,573**	**82.9**	**371,309**	**305,526**	**82.3**
Western Regions						
West North Central	75,665	68,244	90.2	78,793	61,593	78.2
West South Central	69,395	58,542	84.4	74,315	53,731	72.3
Mountain	66,037	41,485	62.8	71,476	47,153	66.0
Pacific	5,564	5,564	100.0	5,535	5,535	100.0
Subtotal	**216,661**	**173,835**	**80.2**	**230,118**	**168,012**	**73.0**
Total	**579,374**	**474,409**	**81.9**	**601,427**	**473,538**	**78.7**

Notes: Totals may not equal the sum of components because of independent rounding. Percent of total is calculated before rounding. This table excludes Alaska and Hawaii.
Source: Federal Power Commission Form 423.

Table 27. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Census Region and State (Thousand Short Tons)

Census Region and State	Total Receipts	Before Blending				After Blending			
		Quantity Conforming	Pct of Total	Quantity Non-Conforming	Pct of Total	Quantity Conforming	Pct of Total	Quantity Non-Conforming	Pct of Total
New England	**3,990.6**	**3,951.0**	**99.0**	**39.6**	**1.0**	**3,951.0**	**99.0**	**39.6**	**1.0**
Connecticut	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-
Massachusetts	3,089.0	3,089.0	100.0	.0	.0	3,089.0	100.0	.0	.0
New Hampshire	862.0	862.0	100.0	.0	.0	862.0	100.0	.0	.0
Rhode Island	-	-	-	-	-	-	-	-	-
Vermont	39.6	.0	.0	39.6	100.0	.0	.0	39.6	100.0
Middle Atlantic	**49,390.9**	**34,175.1**	**69.2**	**15,215.7**	**30.8**	**37,743.7**	**76.4**	**11,647.2**	**23.6**
New Jersey	2,878.6	2,871.1	99.7	7.4	.3	2,878.6	100.0	.0	.0
New York	6,581.9	5,762.7	87.6	819.1	12.4	6,528.9	99.2	53.0	.8
Pennsylvania	39,930.4	25,541.3	64.0	14,389.1	36.0	28,336.2	71.0	11,594.2	29.0
East North Central	**143,133.2**	**106,840.9**	**74.6**	**36,292.3**	**25.4**	**116,851.0**	**81.6**	**26,282.2**	**18.4**
Illinois	30,908.2	27,491.6	88.9	3,416.7	11.1	27,889.3	90.2	3,019.0	9.8
Indiana	32,096.6	15,986.6	49.8	16,110.0	50.2	19,353.6	60.3	12,743.1	39.7
Michigan	21,197.4	18,128.9	85.5	3,068.5	14.5	18,935.5	89.3	2,261.9	10.7
Ohio	45,303.0	33,946.1	74.9	11,356.9	25.1	38,524.7	85.0	6,778.4	15.0
Wisconsin	13,627.9	11,287.7	82.8	2,340.2	17.2	12,148.0	89.1	1,479.9	10.9
West North Central	**78,792.6**	**54,192.0**	**68.8**	**24,600.6**	**31.2**	**61,593.3**	**78.2**	**17,199.3**	**21.8**
Iowa	10,705.3	9,291.1	86.8	1,414.2	13.2	10,296.6	96.2	408.7	3.8
Kansas	11,178.7	9,365.0	83.8	1,813.7	16.2	9,458.7	84.6	1,720.0	15.4
Minnesota	11,126.7	6,155.3	55.3	4,971.4	44.7	6,302.4	56.6	4,824.3	43.4
Missouri	23,867.8	15,705.3	65.8	8,162.5	34.2	21,404.7	89.7	2,463.1	10.3
Nebraska	5,850.9	5,850.9	100.0	.0	.0	5,850.9	100.0	.0	.0
North Dakota	13,846.0	6,017.6	43.5	7,828.4	56.5	6,062.8	43.8	7,783.2	56.2
South Dakota	2,217.2	1,806.7	81.5	410.5	18.5	2,217.2	100.0	.0	.0
South Atlantic	**109,047.3**	**93,214.2**	**85.5**	**15,833.1**	**14.5**	**99,936.8**	**91.6**	**9,110.5**	**8.4**
Delaware	1,930.2	1,835.4	95.1	94.7	4.9	1,930.2	100.0	.0	.0
District of Columbia	-	-	-	-	-	-	-	-	-
Florida	9,850.6	9,529.6	96.7	321.0	3.3	9,529.6	96.7	321.0	3.3
Georgia	21,169.2	19,462.1	91.9	1,707.1	8.1	21,169.2	100.0	.0	.0
Maryland	5,785.5	5,088.0	87.9	697.5	12.1	5,785.5	100.0	.0	.0
North Carolina	24,917.3	24,681.1	99.1	236.2	.9	24,917.3	100.0	.0	.0
South Carolina	8,544.7	5,304.9	62.1	3,239.8	37.9	5,753.8	67.3	2,790.8	32.7
Virginia	6,798.5	6,471.5	95.2	327.0	4.8	6,682.0	98.3	116.5	1.7
West Virginia	30,051.4	20,841.6	69.4	9,209.8	30.6	24,169.2	80.4	5,882.2	19.6
East South Central	**65,746.9**	**42,833.3**	**65.1**	**22,913.5**	**34.9**	**47,043.5**	**71.6**	**18,703.4**	**28.4**
Alabama	17,566.7	13,348.2	76.0	4,218.5	24.0	14,749.6	84.0	2,817.1	16.0
Kentucky	25,635.3	12,222.7	47.7	13,412.6	52.3	12,337.6	48.1	13,297.7	51.9
Mississippi	3,828.8	2,947.8	77.0	881.0	23.0	2,974.9	77.7	853.9	22.3
Tennessee	18,716.0	14,314.6	76.5	4,401.4	23.5	16,981.4	90.7	1,734.6	9.3
West South Central	**74,315.0**	**53,528.1**	**72.0**	**20,786.9**	**28.0**	**53,731.1**	**72.3**	**20,583.9**	**27.7**
Arkansas	7,401.1	7,401.1	100.0	.0	.0	7,401.1	100.0	.0	.0
Louisiana	2,547.8	2,344.8	92.0	203.0	8.0	2,547.8	100.0	.0	.0
Oklahoma	10,723.3	10,723.3	100.0	.0	.0	10,723.3	100.0	.0	.0
Texas	53,642.8	33,058.9	61.6	20,583.9	38.4	33,058.9	61.6	20,583.9	38.4
Mountain	**71,476.0**	**41,985.4**	**58.7**	**29,490.5**	**41.3**	**47,153.1**	**66.0**	**24,322.9**	**34.0**
Arizona	13,552.0	3,738.0	27.6	9,814.0	72.4	7,723.1	57.0	5,828.9	43.0
Colorado	12,033.5	11,974.9	99.5	58.6	.5	12,033.5	100.0	.0	.0
Idaho	-	-	-	-	-	-	-	-	-
Montana	2,601.1	177.1	6.8	2,424.0	93.2	177.1	6.8	2,424.0	93.2
Nevada	6,589.4	4,788.0	72.7	1,801.4	27.3	4,788.0	72.7	1,801.4	27.3
New Mexico	12,362.5	12,362.5	100.0	.0	.0	12,362.5	100.0	.0	.0
Utah	5,994.0	5,735.0	95.7	259.0	4.3	5,994.0	100.0	.0	.0
Wyoming	18,343.5	3,209.9	17.5	15,133.6	82.5	4,074.9	22.2	14,268.7	77.8
Pacific	**5,534.5**	**5,534.5**	**100.0**	**.0**	**.0**	**5,534.5**	**100.0**	**.0**	**.0**
California	-	-	-	-	-	-	-	-	-
Oregon	1,134.5	1,134.5	100.0	.0	.0	1,134.5	100.0	.0	.0
Washington	4,400.0	4,400.0	100.0	.0	.0	4,400.0	100.0	.0	.0
Total	**601,426.9**	**436,254.5**	**72.5**	**165,172.3**	**27.5**	**473,538.0**	**78.7**	**127,888.8**	**21.3**

Note: Totals may not equal the sum of component parts because of independent rounding.
Source: Federal Power Commission Form 423 and Federal Power Commission Form 67, Part IV.

Table 28. FGD Capacity in Operation as of December 1982

Utility Plant and Unit No.	Net Generating Capacity (Megawatts) by Plant	Net Generating Capacity (Megawatts) by Unit with FGD System	Initial Start Up Date of FGD System	Average Sulfur Content Percent by Wt	FGD Status	FGD Process	Designed SO2 Removal Percent Efficiency	Cost of FGD System: Installed (Dollars per Kilowatt)	Cost of FGD System: Operation and Maintenance (Mills per kWh)
Alabama Electric Coop									
Tombigbee 2	525	235	7809	1.61	New	Limestone	59.5	38.3	3.18
Tombigbee 3	-	235	7906	1.61	New	Limestone	59.5	38.3	3.18
Arizona Elec Pwr Coop									
Apache 2	530	175	7808	.50	New	Limestone	49.0	67.5	3.75
Apache 3	-	175	7906	.50	New	Limestone	49.0	59.8	3.75
Arizona Pub Serv Co									
Cholla 1	965	115	7310	.50	Retrofit	Limestone	55.0	81.3	4.79
Cholla 2	-	235	7804	.50	New	Limestone	75.0	162.1	8.22
Cholla 4	-	350	8103	.50	New	Limestone	95.0	-	-
Four Corners 1	2,085	170	7911	.75	Retrofit	Lime/Alkaline/Flyash	50.0	-	-
Four Corners 2	-	170	7911	.75	Retrofit	Lime/Alkaline/Flyash	50.0	-	-
Four Corners 3	-	229	7911	.75	Retrofit	Lime/Alkaline/Flyash	50.0	-	-
Basin Elec Power Coop									
Laramie River 1	1,500	545	8007	.35	New	Limestone	90.0	-	-
Laramie River 2	-	500	8107	.81	New	Limestone	90.0	-	-
Big River Elec Pwr Coop									
R. D. Green 1	444	222	7912	3.91	New	Lime	90.0	43.2	-
R. D. Green 2	-	222	8011	3.91	New	Lime	90.0	-	-
Cent Illinois Light									
Duck Creek 1	378	378	7607	3.40	New	Limestone	85.3	132.2	5.78
Cent Illinois Pub Serv									
Newton 1	575	575	7909	3.00	New	Dual Alkali	90.0	263.9	13.94
Cincinnati Gas & Electric									
East Bend 2	650	600	8103	3.60	New	Lime	87.0	-	-
Colorado Ute Elec Assn									
Craig 1	900	400	8010	.45	New	Limestone	85.0	105.9	5.33
Craig 2	-	400	7912	.45	New	Limestone	85.0	90.3	4.56
Columbus & So Ohio Elec									
Conesville 5	1,890	373	7701	4.50	New	Lime	89.5	99.4	6.78
Conesville 6	-	373	7806	4.50	New	Lime	89.5	99.4	6.78
Cooperative Pwr Assn									
Coal Creek 1	1,100	500	7907	.63	New	Lime/Alkaline/Flyash	54.0	52.5	2.99
Coal Creek 2	-	500	8007	.63	New	Lime/Alkaline/Flyash	54.0	52.5	2.99
Delmarva Power and Light									
Delaware City 1	180	60	8005	7.00	Retrofit	Wellman-Lord	90.0	-	-
Delaware City 2	-	60	8005	7.00	Retrofit	Wellman-Lord	90.0	-	-
Delaware City 3	-	60	8005	7.00	Retrofit	Wellman-Lord	90.0	-	-
Duquesne Light									
Elrama 1-4	487	487	7510	2.05	Retrofit	Lime	83.0	187.8	12.89
Philips 1-6	387	373	7307	2.05	Retrofit	Lime	83.0	210.0	17.65
Hoosier Energy									
Merom 2	490	490	8112	3.50	New	Limestone	90.0	-	-
Indianapolis Pwr & Lt									
Petersburg 3	1,180	515	7712	3.25	New	Limestone	85.0	162.1	9.74
Kansas City Pwr & Lt									
Hawthrown 3	836	85	7211	2.78	Retrofit	Lime	70.0	62.8	5.25
Hawthrown 4	-	85	7208	2.78	Retrofit	Lime	70.0	62.8	5.25
LaCygne 1	1,450	820	7212	5.39	New	Limestone	80.0	100.1	11.29
Kansas Power & Light									
Jeffrey 1	2,720	680	7808	.32	New	Limestone	60.0	55.9	2.42
Jeffrey 2	-	680	8001	.32	New	Limestone	60.0	41.2	1.65
Lawrence 4	576	115	7701	.55	Retrofit	Limestone	73.0	82.0	1.65
Lawrence 5	-	400	7804	.55	Retrofit	Limestone	52.0	17.7	.73
Kentucky Utilities									
Green River 1-3	242	60	7509	2.50	Retrofit	Lime	80.0	117.8	10.99
Louisville Gas & Elec									
Cane Run 4	992	175	7608	3.87	Retrofit	Lime	85.0	115.2	6.20
Cane Run 5	-	192	7712	3.80	Retrofit	Lime	85.0	102.4	5.30
Cane Run 6	-	277	7904	4.80	Retrofit	Dual Alkali	95.0	87.8	7.23
Mill Creek 1	1,574	334	8012	3.75	Retrofit	Lime	85.0	60.4	4.26
Mill Creek 2	-	325	8112	3.75	Retrofit	Lime	85.0	-	-
Mill Creek 3	-	420	7808	3.87	New	Lime	85.0	66.0	4.03
Mill Creek 4	-	495	8207	3.75	New	Lime	85.0	-	-
Paddys Run 6	302	67	7304	3.70	Retrofit	Lime	90.0	133.0	12.25
Minnesota Power & Light									
Clay Boswell 4	1,000	504	8002	.94	New	Lime/Alkaline/Flyash	89.0	184.4	14.09
Minnkota Power Coop									
Milton R. Young 2	690	402	7709	.60	New	Lime/Alkaline/Flyash	78.0	155.7	6.44
Monongahela Power									
Pleasants 1	1,160	580	7812	3.00	New	Lime	90.0	123.6	8.58
Pleasants 2	-	580	8010	3.00	New	Lime	90.0	152.9	7.94

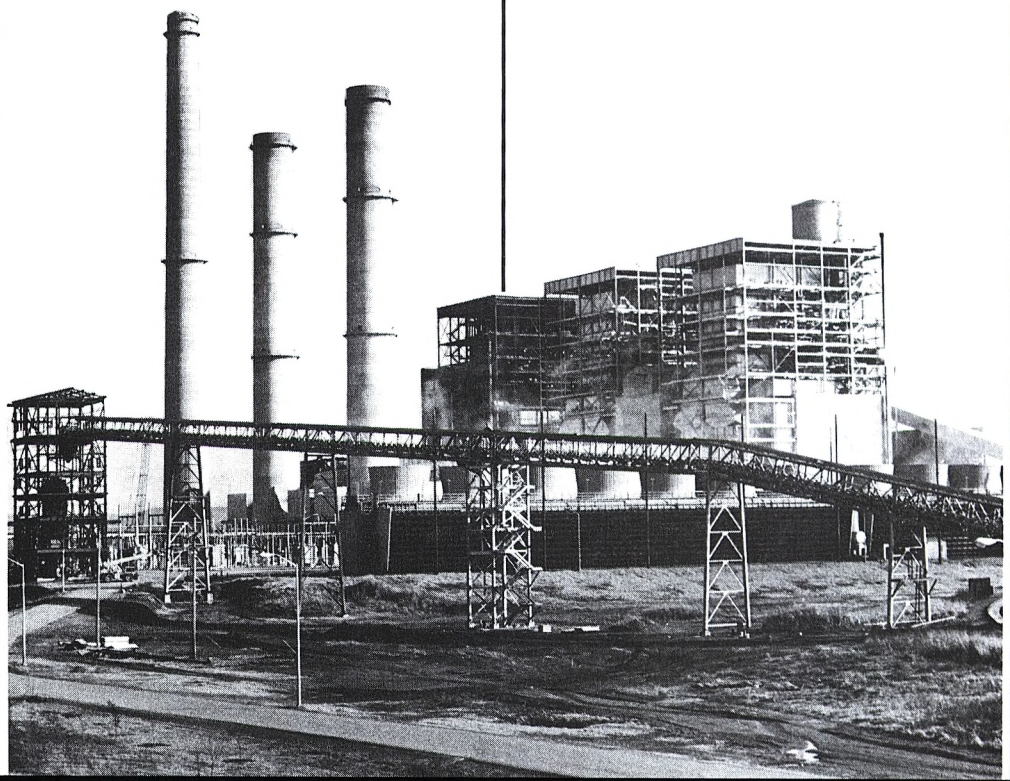
Table 28. FGD Capacity in Operation as of December 1982—Continued

Utility Plant and Unit No.	Net Generating Capacity (Megawatts) by Plant	Net Generating Capacity (Megawatts) by Unit with FGD System	Initial Start Up Date of FGD System	Average Sulfur Content Percent by Wt	FGD Status	FGD Process	Designed SO2 Removal Percent Efficiency	Cost of FGD System: Installed (Dollars per Kilowatt)	Cost of FGD System: Operation and Maintenance (Mills per kWh)
Montana Power									
Colstrip 1	664	332	7509	0.78	New	Lime/Alkaline/Flyash	60.0	145.9	8.27
Colstrip 2	-	332	7605	.78	New	Lime/Alkaline/Flyash	60.0	145.9	8.27
Montana-Dakota Utilities									
Coyote 1	400	400	8104	.87	New	Na2CO3/Spray Drying	70.0	-	-
Nevada Power									
Reid Gardner 1	331	110	7403	.50	Retrofit	Sodium Carbonate	90.0	87.1	5.78
Reid Gardner 2	-	110	7404	.50	Retrofit	Sodium Carbonate	90.0	87.1	5.78
Reid Gardner 3	-	110	7606	.50	New	Sodium Carbonate	85.0	150.9	7.40
Niagara Mohawk									
Huntley 66	828	95	8204	1.80	Retrofit	Aqueous CO3/Spray Dry	87.5	-	-
Northern States Power									
Riverside 6-7	350	103	8011	1.20	Retrofit	Lime/Spray Drying	90.0	120.0	-
Sherburne 1	1,420	710	7603	.80	New	Limestone/Alkali/Flyash	50.0	102.6	5.43
Sherburne 2	-	710	7703	.80	New	Limestone/Alkali/Flyash	50.0	102.6	5.43
Pacific Power & Light									
Jim Bridger 2A	2,034	-	8201	.56	Retrofit	Lime/Sodium Carbonate	-	-	-
Jim Bridger 4	-	508	7909	.56	New	Sodium Carbonate	91.0	118.4	6.81
Pennsylvania Power									
Bruce Mansfield 1	2,360	780	7512	3.50	New	Lime	92.1	144.2	11.31
Bruce Mansfield 2	-	780	7707	3.50	New	Lime	92.1	144.2	11.31
Bruce Mansfield 3	-	800	8006	4.30	New	Lime	92.2	181.1	10.27
Philadelphia Electric									
Eddystone	1,395	240	8205	2.60	Retrofit	Magnesium Oxide	90.0	-	-
Pub Serv of New Mexico									
San Juan 1	1,560	314	7804	.80	Retrofit	Wellman-Lord	90.0	277.9	16.69
San Juan 2	-	306	7808	.80	Retrofit	Wellman-Lord	90.0	282.2	16.89
San Juan 3	-	468	7912	.80	New	Wellman-Lord	90.0	-	-
San Juan 4	-	472	8205	.80	New	Wellman-Lord	90.0	-	-
Salt River Project									
Coronado 1	700	350	7911	.55	New	Limestone	82.0	86.5	7.70
Coronado 2	-	350	8007	.55	New	Limestone	82.5	86.5	7.70
San Miguel Electric									
San Miguel 1	400	380	8108	2.39	New	Limestone	86.0	-	-
Sikeston Brd of Mun utils									
Sikeston 1	207	207	8106	2.80	New	Limestone	80.0	-	-
South Carolina Pub Serv									
Winyah 2	1,030	258	7707	1.00	New	Limestone	45.0	47.0	1.84
Winyah 3	-	252	8007	1.00	New	Limestone	90.0	66.6	4.83
Winyah 4	-	252	8107	1.70	New	Limestone	80.0	-	-
S Mississippi Elec Pwr									
R. D. Morrow 1	400	190	7808	1.64	New	Limestone	85.0	118.5	6.94
R. D. Morrow 2	-	190	7906	1.64	New	Limestone	85.0	118.5	6.94
S Illinois Power Coop									
Marion 4	272	161	7904	3.75	New	Limestone	89.4	120.8	7.75
S Indiana Gas & Elec									
A. B. Brown 1	250	250	7903	3.35	New	Dual Alkali	85.0	88.4	4.98
Springfield City Utils									
Southwest 1	173	173	7704	3.50	New	Limestone	80.0	143.4	8.21
Springfield Wtr Lt & Pwr									
Dallman 3	350	192	8010	3.05	New	Limestone	95.0	194.3	14.56
Tennessee Valley Auth									
Shawnee 10A	1,750	10	7204	2.90	Retrofit	Lime/Limestone	90.0	-	-
Shawnee 10B	-	10	7204	2.90	Retrofit	Lime/Limestone	90.0	-	-
Widows Creek 7	1,978	575	8103	3.70	Retrofit	Limestone	80.0	-	-
Widows Creek 8	-	516	7705	3.30	Retrofit	Limestone	80.0	158.1	7.28
Texas Power & Light									
Sandow 4	548	545	8012	1.60	New	Limestone	75.0	-	-
Texas Utilities									
Martin Lake 1	3,000	750	7704	.90	New	Limestone	71.0	-	-
Martin Lake 2	-	750	7805	.90	New	Limestone	71.0	-	-
Martin Lake 3	-	750	7902	.90	New	Limestone	71.0	-	-
Monticello 3	1,900	750	7805	.50	New	Limestone	74.0	-	-
Utah Power & Light									
Hunter 1	786	393	7903	.52	New	Lime	80.0	75.1	4.66
Hunter 2	-	393	8006	.52	New	Lime	80.0	72.6	4.55
Huntington 1	810	400	7805	.43	New	Lime	80.0	90.0	5.89
Naughton 3	710	310	8109	.55	Retrofit	Sodium Carbonate	70.0	-	-

Source: Environmental Protection Agency.

Cost and Quality Data

by Census Region and State, 1982

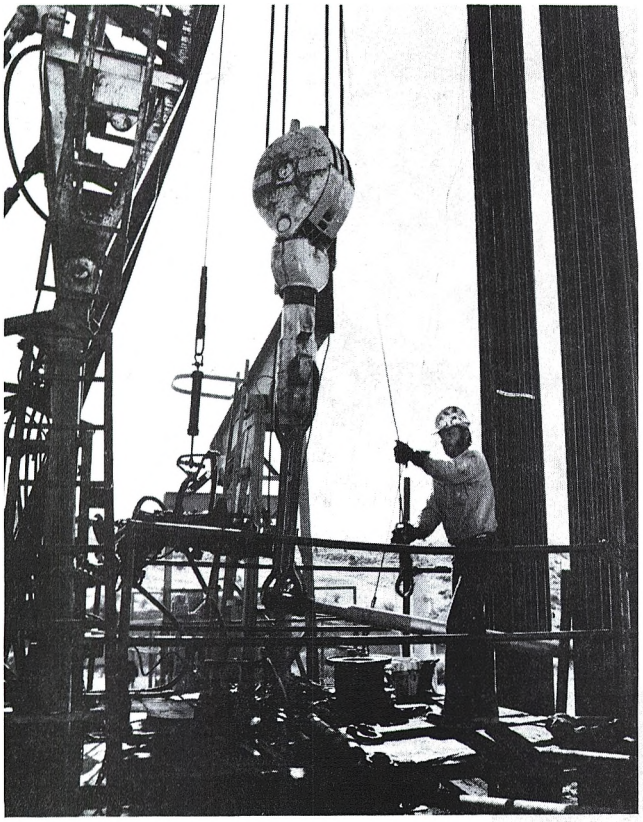


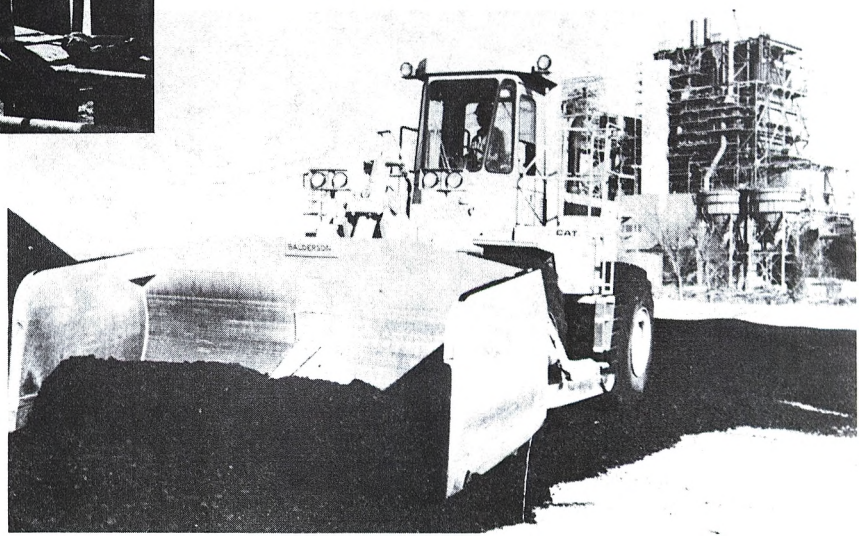
3. Cost and Quality Data by Census, Region and State, 1982

The cost as reported on Form 423 is in cents per million Btu. The annual averages for the three fossil fuels, by State and Census Region appear in Tables 44, 45, 46, 47, 48, 49, 50, 51, and 52. However, also included are average cost in dollars per ton of coal in Table 44; dollars per barrel of oil in Tables 45, 46, and 47; and dollars per Mcf of gas in Tables 48, 49, and 50. These costs were computed for each State and region.

Variations in the average cost per million Btu in relation to the average cost in dollars per ton of coal and dollars per Mcf of gas occur because of the wide ranges in average Btu content of some of the fuel types. For instance, the heat content of bituminous coal can be above 13,000 Btu per pound while lignite rarely contains more than 7,500 Btu per pound. Also, the heat content of refinery gas can be above 1,200 Btu per cubic foot while blast-furnace gas contains approximately 90 Btu per cubic foot.

Pacific Gas and Electric Company's (PG&E) Avon, Martinez, and Oleum plants have arrangements with adjacent refineries in which steam and/or electricity is exchanged for fuel (natural gas or oil). The cost accounting developed by PG&E does not reflect the true cost of the natural gas or oil used at these plants. To get a more representative cost of fuels, a weighted average of the costs of natural gas and oil, as reported by all other PG&E plants for the month, has been assigned to the fuels involved in the exchange arrangement at these three plants.





Cost and Quality Data

Receipts

During 1982, coal receipts totaled 601,426.9 thousand short tons, an increase of 22,053.2 thousand short tons from 1981 receipts. Bituminous coal shipments increased 6,985.3 thousand short tons, and subbituminous coal shipments increased 13,573.4 thousand short tons compared to those for 1981.

Receipts of all oil to fossil-fueled plants totaled 229,156.5 thousand barrels, which showed a 105,612.9 thousand barrel decrease from receipts in 1981. Heavy-oil purchases totaled 218,684.8 thousand barrels, decreasing 98,542.8 thousand barrels from purchases in 1981. Light-oil purchases decreased 7,070.0 thousand barrels to a level of 10,471.8 thousand barrels during 1982.

Gas receipts to electric units totaled 3,138,199.0 million cubic feet (MMcf) during 1982, which was a decrease of 414,460.2 MMcf below 1981 receipts. Natural-gas receipts decreased 405,897.8 MMcf from the 1981 level to 3,129,821.5 MMcf.

Coal, oil, and gas receipts in 1982 in comparison to 1981 are shown in the tables below.

Fuel Type	1982	1981	Quantitative Difference	Change (Percentage)[1]
Total Coal (thousand short tons)	**601,426.9**	**579,373.7**	**22,053.2**	**3.8**
Bituminous	388,504.7	381,519.4	6,985.3	1.8
Subbituminous	165,506.6	151,933.2	13,573.4	8.9
Lignite	46,533.6	45,108.7	1,424.9	3.2
Anthracite	882.0	812.4	69.6	8.6
Total Oil (thousand barrels)	**229,156.5**	**334,769.4**	**-105,612.9**	**-31.5**
Heavy	218,684.8	317,227.6	-98,542.8	-31.1
Light	10,471.8	17,541.8	-7,070.0	-40.3
Total Gas (million cubic feet)	**3,138,199.0**	**3,552,659.2**	**-414,460.2**	**-11.7**
Natural	3,129,821.5	3,535,719.3	-405,897.8	-11.5
Other[2]	8,377.4	16,940.0	-8,562.6	-50.5

[1]Percent change is based on daily averages.
[2]Includes small quantities of coke-oven gas, refinery and blast-furnace gas.
Note: Totals may not equal sum of components because of independent rounding.
Source: •Federal Power Commission Form 423.

Cost and Quality Data

Table 29. Coal Receipts at Steam-Electric Plants of 25-Megawatt Capacity or Larger by Census Region and State, 1982 (Thousand Tons)

Census Region and State	Receipts by Type of Coal				
	Anthracite	Bituminous	Subbituminous	Lignite	Total
New England	**-**	**3,990.6**	**-**	**-**	**3,990.6**
Connecticut	-	-	-	-	-
Maine	-	-	-	-	-
Massachusetts	-	3,089.0	-	-	3,089.0
New Hampshire	-	862.0	-	-	862.0
Rhode Island	-	-	-	-	-
Vermont	-	39.6	-	-	39.6
Middle Atlantic	**882.0**	**48,508.8**	**-**	**-**	**49,390.9**
New Jersey	-	2,878.6	-	-	2,878.6
New York	-	6,581.9	-	-	6,581.9
Pennsylvania	882.0	39,048.4	-	-	39,930.4
East North Central	**-**	**118,991.1**	**24,142.1**	**-**	**143,133.2**
Illinois	-	20,640.6	10,267.6	-	30,908.2
Indiana	-	30,592.5	1,504.1	-	32,096.6
Michigan	-	17,494.9	3,702.5	-	21,197.4
Ohio	-	43,475.9	1,827.1	-	45,303.0
Wisconsin	-	6,787.1	6,840.8	-	13,627.9
West North Central	**-**	**25,592.7**	**36,900.3**	**16,299.6**	**78,792.6**
Iowa	-	2,309.3	8,396.0	-	10,705.3
Kansas	-	1,981.3	9,197.4	-	11,178.7
Minnesota	-	633.2	10,038.7	454.8	11,126.7
Missouri	-	20,531.2	3,336.6	-	23,867.8
Nebraska	-	137.7	5,713.2	-	5,850.9
North Dakota	-	-	-	13,846.0	13,846.0
South Dakota	-	-	218.4	1,998.8	2,217.2
South Atlantic	**-**	**109,034.0**	**13.4**	**-**	**109,047.3**
Delaware	-	1,930.2	-	-	1,930.2
District of Columbia	-	-	-	-	-
Florida	-	9,837.3	13.4	-	9,850.6
Georgia	-	21,169.2	-	-	21,169.2
Maryland	-	5,785.5	-	-	5,785.5
North Carolina	-	24,917.3	-	-	24,917.3
South Carolina	-	8,544.7	-	-	8,544.7
Virginia	-	6,798.5	-	-	6,798.5
West Virginia	-	30,051.4	-	-	30,051.4
East South Central	**-**	**65,746.7**	**.2**	**-**	**65,746.9**
Alabama	-	17,566.7	-	-	17,566.7
Kentucky	-	25,635.3	-	-	25,635.3
Mississippi	-	3,828.6	.2	-	3,828.8
Tennessee	-	18,716.0	-	-	18,716.0
West South Central	**-**	**2,035.9**	**42,222.2**	**30,056.9**	**74,315.0**
Arkansas	-	-	7,401.1	-	7,401.1
Louisiana	-	-	2,547.8	-	2,547.8
Oklahoma	-	-	10,723.3	-	10,723.3
Texas	-	2,035.9	21,550.0	30,056.9	53,642.8
Mountain	**-**	**14,605.0**	**56,693.9**	**177.1**	**71,476.0**
Arizona	-	1,554.7	11,997.3	-	13,552.0
Colorado	-	5,254.9	6,778.6	-	12,033.5
Idaho	-	-	-	-	-
Montana	-	-	2,424.0	177.1	2,601.1
Nevada	-	1,801.4	4,788.0	-	6,589.4
New Mexico	-	-	12,362.5	-	12,362.5
Utah	-	5,994.0	-	-	5,994.0
Wyoming	-	-	18,343.5	-	18,343.5
Pacific	**-**	**-**	**5,534.5**	**-**	**5,534.5**
California	-	-	-	-	-
Oregon	-	-	1,134.5	-	1,134.5
Washington	-	-	4,400.0	-	4,400.0
Total	**882.0**	**388,504.7**	**165,506.6**	**46,533.6**	**601,426.9**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 30. Fuel Oil Receipts at All Reporting Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982 (Thousand Barrels)

Census Region and State	Receipts by Type of Oil				
	Kerosene[1]	Fuel Oil No. 2	Fuel Oil No. 6	Other Heavy Oils[2]	Total
New England	**14.0**	**270.2**	**54,819.5**	**-**	**55,103.7**
Connecticut	.4	15.9	17,507.8	-	17,524.1
Maine	-	45.0	3,031.8	-	3,076.8
Massachusetts	2.0	181.7	30,467.3	-	30,650.9
New Hampshire	4.2	15.3	2,833.1	-	2,852.6
Rhode Island	-	-	979.5	-	979.5
Vermont	7.4	12.3	-	-	19.8
Middle Atlantic	**373.0**	**2,180.5**	**72,135.9**	**0.5**	**74,689.9**
New Jersey	360.0	339.4	7,867.4	.5	8,567.3
New York	12.0	255.0	55,719.4	-	55,986.4
Pennsylvania	1.0	1,586.1	8,549.0	-	10,136.1
East North Central	**46.2**	**1,939.2**	**9,623.3**	**-**	**11,608.7**
Illinois	46.2	400.2	7,950.4	-	8,396.9
Indiana	-	487.3	-	-	487.3
Michigan	-	382.2	1,557.4	-	1,939.6
Ohio	-	480.4	115.5	-	595.9
Wisconsin	-	189.1	-	-	189.1
West North Central	**-**	**661.1**	**633.5**	**-**	**1,294.6**
Iowa	-	63.4	-	-	63.4
Kansas	-	65.0	284.7	-	349.7
Minnesota	-	8.3	16.5	-	24.8
Missouri	-	311.2	332.3	-	643.5
Nebraska	-	121.6	-	-	121.6
North Dakota	-	77.6	-	-	77.6
South Dakota	-	13.9	-	-	13.9
South Atlantic	**4.0**	**2,585.5**	**65,440.7**	**211.0**	**68,241.2**
Delaware	-	128.5	3,260.8	-	3,389.4
District of Columbia	-	37.2	-	211.0	248.2
Florida	-	529.4	53,614.3	-	54,143.8
Georgia	-	215.4	39.6	-	255.0
Maryland	-	612.6	5,677.2	-	6,289.8
North Carolina	-	332.0	-	-	332.0
South Carolina	-	177.8	7.8	-	185.6
Virginia	-	254.0	2,841.0	-	3,095.0
West Virginia	4.0	298.5	-	-	302.5
East South Central	**-**	**634.9**	**283.6**	**-**	**918.5**
Alabama	-	176.7	-	-	176.7
Kentucky	-	205.4	-	-	205.4
Mississippi	-	44.1	283.6	-	327.7
Tennessee	-	208.6	-	-	208.6
West South Central	**-**	**1,256.7**	**1,634.7**	**655.7**	**3,547.1**
Arkansas	-	217.2	107.7	-	324.9
Louisiana	-	299.3	1,157.4	-	1,456.7
Oklahoma	-	83.4	-	-	83.4
Texas	-	656.9	369.6	655.7	1,682.2
Mountain	**-**	**301.9**	**202.0**	**118.4**	**622.3**
Arizona	-	74.6	116.9	-	191.5
Colorado	-	67.5	-	-	67.5
Idaho	-	-	-	-	-
Montana	-	.3	-	-	.3
Nevada	-	16.5	85.1	-	101.5
New Mexico	-	107.6	-	118.4	226.0
Utah	-	30.0	-	-	30.0
Wyoming	-	5.4	-	-	5.4
Pacific	**-**	**204.0**	**12,925.9**	**-**	**13,129.9**
California	-	188.2	12,925.9	-	13,114.1
Oregon	-	15.7	-	-	15.7
Washington	-	.2	-	-	.2
Total	**437.2**	**10,034.0**	**217,699.1**	**985.6**	**229,155.9**

[1] Includes small quantities of Jet Fuel.
[2] Includes Fuel Oil No. 4, Fuel Oil No. 5, Crude, and Topped Crude.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 31. Fuel Oil Receipts at Steam-Electric Plants of 25-Megawatt Capacity or Larger by Census Region and State, 1982 (Thousand Barrels)

Census Region and State	Receipts by Type of Oil					
	Fuel Oil No. 2	Fuel Oil No. 4[1]	Fuel Oil No. 5[1]	Fuel Oil No. 6	Crude Oil[2]	Total
New England	**121.5**	-	-	**54,819.5**	-	**54,941.0**
Connecticut	15.5	-	-	17,507.8	-	17,523.3
Maine	43.0	-	-	3,031.8	-	3,074.8
Massachusetts	38.2	-	-	30,467.3	-	30,505.5
New Hampshire	15.3	-	-	2,833.1	-	2,848.4
Rhode Island	-	-	-	979.5	-	979.5
Vermont	9.5	-	-	-	-	9.5
Middle Atlantic	**1,003.9**	**0.5**	-	**72,135.9**	-	**73,140.2**
New Jersey	9.1	.5	-	7,867.4	-	7,877.0
New York	-	-	-	55,719.4	-	55,719.4
Pennsylvania	994.8	-	-	8,549.0	-	9,543.8
East North Central	**1,480.4**	-	-	**9,623.3**	-	**11,103.8**
Illinois	355.9	-	-	7,950.4	-	8,306.3
Indiana	215.6	-	-	-	-	215.6
Michigan	377.9	-	-	1,557.4	-	1,935.3
Ohio	374.5	-	-	115.5	-	490.0
Wisconsin	156.5	-	-	-	-	156.5
West North Central	**578.4**	-	-	**633.5**	-	**1,211.9**
Iowa	63.4	-	-	-	-	63.4
Kansas	27.7	-	-	284.7	-	312.4
Minnesota	8.3	-	-	16.5	-	24.8
Missouri	280.8	-	-	332.3	-	613.1
Nebraska	106.8	-	-	-	-	106.8
North Dakota	77.6	-	-	-	-	77.6
South Dakota	13.9	-	-	-	-	13.9
South Atlantic	**1,924.4**	**211.0**	-	**65,253.1**	-	**67,388.5**
Delaware	128.5	-	-	3,260.8	-	3,389.4
District of Columbia	8.9	211.0	-	-	-	219.9
Florida	174.3	-	-	53,426.7	-	53,601.0
Georgia	215.4	-	-	39.6	-	255.0
Maryland	548.7	-	-	5,677.2	-	6,225.8
North Carolina	216.6	-	-	-	-	216.6
South Carolina	108.5	-	-	7.8	-	116.3
Virginia	225.0	-	-	2,841.0	-	3,066.0
West Virginia	298.5	-	-	-	-	298.5
East South Central	**634.9**	-	-	**283.6**	-	**918.5**
Alabama	176.7	-	-	-	-	176.7
Kentucky	205.4	-	-	-	-	205.4
Mississippi	44.1	-	-	283.6	-	327.7
Tennessee	208.6	-	-	-	-	208.6
West South Central	**1,166.4**	**121.9**	**533.8**	**1,634.7**	-	**3,456.8**
Arkansas	208.3	-	-	107.7	-	316.0
Louisiana	294.2	-	-	1,157.4	-	1,451.6
Oklahoma	83.4	-	-	-	-	83.4
Texas	580.6	121.9	533.8	369.6	-	1,605.9
Mountain	**301.6**	-	**118.4**	**202.0**	-	**622.0**
Arizona	74.6	-	-	116.9	-	191.5
Colorado	67.5	-	-	-	-	67.5
Idaho	-	-	-	-	-	-
Montana	-	-	-	-	-	-
Nevada	16.5	-	-	85.1	-	101.5
New Mexico	107.6	-	118.4	-	-	226.0
Utah	30.0	-	-	-	-	30.0
Wyoming	5.4	-	-	-	-	5.4
Pacific	**23.8**	-	-	**12,925.9**	-	**12,949.7**
California	8.0	-	-	12,925.9	-	12,933.9
Oregon	15.7	-	-	-	-	15.7
Washington	.2	-	-	-	-	.2
Total	**7,235.4**	**333.4**	**652.2**	**217,511.5**	-	**225,732.5**

[1] Blend of Fuel Oil No. 2 and Fuel Oil No. 6.
[2] Includes small quantities of Topped Crude.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 32. Fuel Oil Receipts at Peaking Units for Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982 (Thousand Barrels)

Census Region and State	Receipts by Type of Oil			
	Kerosene[1]	Fuel Oil No. 2	Heavy Oil[2]	Total
New England	**14.0**	**148.7**	**-**	**162.7**
Connecticut	.4	.4	-	.8
Maine	-	2.0	-	2.0
Massachusetts	2.0	143.5	-	145.5
New Hampshire	4.2	-	-	4.2
Rhode Island	-	-	-	-
Vermont	7.4	2.8	-	10.3
Middle Atlantic	**373.0**	**1,176.7**	**-**	**1,549.7**
New Jersey	360.0	330.4	-	690.4
New York	12.0	255.0	-	267.0
Pennsylvania	1.0	591.3	-	592.3
East North Central	**46.2**	**458.7**	**-**	**504.9**
Illinois	46.2	44.3	-	90.5
Indiana	-	271.7	-	271.7
Michigan	-	4.2	-	4.2
Ohio	-	105.9	-	105.9
Wisconsin	-	32.6	-	32.6
West North Central	**-**	**82.7**	**-**	**82.7**
Iowa	-	-	-	-
Kansas	-	37.3	-	37.3
Minnesota	-	-	-	-
Missouri	-	30.4	-	30.4
Nebraska	-	14.9	-	14.9
North Dakota	-	-	-	-
South Dakota	-	.1	-	.1
South Atlantic	**4.0**	**661.0**	**187.7**	**852.7**
Delaware	-	-	-	-
District of Columbia	-	28.3	-	28.3
Florida	-	355.1	187.7	542.7
Georgia	-	-	-	-
Maryland	-	64.0	-	64.0
North Carolina	-	115.4	-	115.4
South Carolina	-	69.3	-	69.3
Virginia	-	29.0	-	29.0
West Virginia	4.0	-	-	4.0
East South Central	**-**	**-**	**-**	**-**
Alabama	-	-	-	-
Kentucky	-	-	-	-
Mississippi	-	-	-	-
Tennessee	-	-	-	-
West South Central	**-**	**90.3**	**-**	**90.3**
Arkansas	-	8.9	-	8.9
Louisiana	-	5.1	-	5.1
Oklahoma	-	-	-	-
Texas	-	76.3	-	76.3
Mountain	**-**	**.3**	**-**	**.3**
Arizona	-	-	-	-
Colorado	-	-	-	-
Idaho	-	-	-	-
Montana	-	.3	-	.3
Nevada	-	-	-	-
New Mexico	-	-	-	-
Utah	-	-	-	-
Wyoming	-	-	-	-
Pacific	**-**	**180.2**	**-**	**180.2**
California	-	180.2	-	180.2
Oregon	-	-	-	-
Washington	-	-	-	-
Total	**437.2**	**2,798.6**	**187.7**	**3,423.5**

[1] Includes small quantities of Jet Fuel.
[2] Includes Fuel Oil No. 4, Fuel Oil No. 5, Fuel Oil No. 6, Crude, and Topped Crude.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 33. Gas Receipts at All Reporting Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982 (Thousand Mcf)

Census Region and State	Receipts by Type of Gas			
	Natural Gas	LNG and SNG[1]	Other[2]	Total
New England	**17,010.3**	-	-	**17,010.3**
Connecticut	-	-	-	-
Maine	-	-	-	-
Massachusetts	16,095.6	-	-	16,095.6
New Hampshire	-	-	-	-
Rhode Island	807.4	-	-	807.4
Vermont	107.3	-	-	107.3
Middle Atlantic	**215,811.2**	-	-	**215,811.2**
New Jersey	63,315.0	-	-	63,315.0
New York	151,254.6	-	-	151,254.6
Pennsylvania	1,241.5	-	-	1,241.5
East North Central	**20,615.8**	-	**2,172.6**	**22,788.4**
Illinois	9,022.3	-	-	9,022.3
Indiana	2,567.4	-	-	2,567.4
Michigan	3,607.2	-	2,172.6	5,779.8
Ohio	1,015.1	-	-	1,015.1
Wisconsin	4,403.8	-	-	4,403.8
West North Central	**64,642.9**	-	-	**64,642.9**
Iowa	1,722.9	-	-	1,722.9
Kansas	54,571.4	-	-	54,571.4
Minnesota	3,252.8	-	-	3,252.8
Missouri	4,077.1	-	-	4,077.1
Nebraska	997.9	-	-	997.9
North Dakota	-	-	-	-
South Dakota	20.7	-	-	20.7
South Atlantic	**188,043.4**	-	**723.9**	**188,767.3**
Delaware	4,503.1	-	114.9	4,618.0
District of Columbia	-	-	-	-
Florida	177,820.5	-	-	177,820.5
Georgia	1,554.4	-	-	1,554.4
Maryland	933.4	-	-	933.4
North Carolina	28.6	-	-	28.6
South Carolina	535.2	-	-	535.2
Virginia	2,537.0	-	609.0	3,146.0
West Virginia	131.2	-	-	131.2
East South Central	**84,538.3**	-	-	**84,538.3**
Alabama	1,342.0	-	-	1,342.0
Kentucky	1,679.7	-	-	1,679.7
Mississippi	81,516.6	-	-	81,516.6
Tennessee	-	-	-	-
West South Central	**1,924,045.9**	-	-	**1,924,045.9**
Arkansas	32,293.7	-	-	32,293.7
Louisiana	360,599.2	-	-	360,599.2
Oklahoma	245,305.5	-	-	245,305.5
Texas	1,285,847.6	-	-	1,285,847.6
Mountain	**89,177.0**	-	-	**89,177.0**
Arizona	31,281.4	-	-	31,281.4
Colorado	5,443.0	-	-	5,443.0
Idaho	5.2	-	-	5.2
Montana	321.9	-	-	321.9
Nevada	15,736.9	-	-	15,736.9
New Mexico	34,190.6	-	-	34,190.6
Utah	2,065.0	-	-	2,065.0
Wyoming	133.0	-	-	133.0
Pacific	**525,936.7**	-	**5,480.9**	**531,417.6**
California	525,788.4	-	5,480.9	531,269.3
Oregon	35.7	-	-	35.7
Washington	112.6	-	-	112.6
Total	**3,129,821.5**	-	**8,377.4**	**3,138,199.0**

[1] Liquified Natural Gas and Synthetic Natural Gas.
[2] Includes small quantities of Coke-Oven Gas, Refinery Gas, and Blast-Furnace Gas.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 34. Gas Receipts at Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982 (Thousand Mcf)

Census Region and State	Receipts by Type of Gas			
	Natural Gas	LNG and SNG[1]	Other[2]	Total
New England	**14,648.3**	-	-	**14,648.3**
Connecticut	-	-	-	-
Maine	-	-	-	-
Massachusetts	13,733.6	-	-	13,733.6
New Hampshire	-	-	-	-
Rhode Island	807.4	-	-	807.4
Vermont	107.3	-	-	107.3
Middle Atlantic	**199,449.9**	-	-	**199,449.9**
New Jersey	50,093.8	-	-	50,093.8
New York	149,271.9	-	-	149,271.9
Pennsylvania	84.2	-	-	84.2
East North Central	**14,053.7**	-	**2,172.6**	**16,226.3**
Illinois	5,254.0	-	-	5,254.0
Indiana	2,424.9	-	-	2,424.9
Michigan	1,989.6	-	2,172.6	4,162.2
Ohio	519.8	-	-	519.8
Wisconsin	3,865.4	-	-	3,865.4
West North Central	**63,249.3**	-	-	**63,249.3**
Iowa	1,613.6	-	-	1,613.6
Kansas	53,372.4	-	-	53,372.4
Minnesota	3,246.1	-	-	3,246.1
Missouri	4,001.8	-	-	4,001.8
Nebraska	994.8	-	-	994.8
North Dakota	-	-	-	-
South Dakota	20.7	-	-	20.7
South Atlantic	**183,100.7**	-	**723.9**	**183,824.7**
Delaware	4,503.1	-	114.9	4,618.0
District of Columbia	-	-	-	-
Florida	174,152.6	-	-	174,152.6
Georgia	1,501.1	-	-	1,501.1
Maryland	-	-	-	-
North Carolina	-	-	-	-
South Carolina	317.8	-	-	317.8
Virginia	2,495.0	-	609.0	3,104.0
West Virginia	131.2	-	-	131.2
East South Central	**80,878.8**	-	-	**80,878.8**
Alabama	1,342.0	-	-	1,342.0
Kentucky	1,654.4	-	-	1,654.4
Mississippi	77,882.4	-	-	77,882.4
Tennessee	-	-	-	-
West South Central	**1,861,563.3**	-	-	**1,861,563.3**
Arkansas	32,290.2	-	-	32,290.2
Louisiana	360,306.3	-	-	360,306.3
Oklahoma	242,349.0	-	-	242,349.0
Texas	1,226,617.8	-	-	1,226,617.8
Mountain	**82,318.6**	-	-	**82,318.6**
Arizona	26,112.7	-	-	26,112.7
Colorado	4,747.3	-	-	4,747.3
Idaho	-	-	-	-
Montana	318.7	-	-	318.7
Nevada	14,884.3	-	-	14,884.3
New Mexico	34,057.6	-	-	34,057.6
Utah	2,065.0	-	-	2,065.0
Wyoming	133.0	-	-	133.0
Pacific	**519,081.8**	-	**5,480.9**	**524,562.7**
California	519,081.8	-	5,480.9	524,562.7
Oregon	-	-	-	-
Washington	-	-	-	-
Total	**3,018,344.4**	-	**8,377.4**	**3,026,721.9**

[1] Liquified Natural Gas and Synthetic Natural Gas.
[2] Includes small quantities of Coke-Oven Gas, Refinery Gas, and Blast-Furnace Gas.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 35. Gas Receipts at Peaking Units for Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982 (Thousand Mcf)

Census Region and State	Receipts by Type of Gas			
	Natural Gas	LNG and SNG[1]	Other[2]	Total
New England	**2,362.0**	-	-	**2,362.0**
Connecticut	-	-	-	-
Maine	-	-	-	-
Massachusetts	2,362.0	-	-	2,362.0
New Hampshire	-	-	-	-
Rhode Island	-	-	-	-
Vermont	-	-	-	-
Middle Atlantic	**16,361.3**	-	-	**16,361.3**
New Jersey	13,221.2	-	-	13,221.2
New York	1,982.7	-	-	1,982.7
Pennsylvania	1,157.3	-	-	1,157.3
East North Central	**6,562.1**	-	-	**6,562.1**
Illinois	3,768.3	-	-	3,768.3
Indiana	142.5	-	-	142.5
Michigan	1,617.6	-	-	1,617.6
Ohio	495.3	-	-	495.3
Wisconsin	538.4	-	-	538.4
West North Central	**1,393.6**	-	-	**1,393.6**
Iowa	109.3	-	-	109.3
Kansas	1,199.1	-	-	1,199.1
Minnesota	6.7	-	-	6.7
Missouri	75.3	-	-	75.3
Nebraska	3.1	-	-	3.1
North Dakota	-	-	-	-
South Dakota	-	-	-	-
South Atlantic	**4,942.6**	-	-	**4,942.6**
Delaware	-	-	-	-
District of Columbia	-	-	-	-
Florida	3,667.9	-	-	3,667.9
Georgia	53.3	-	-	53.3
Maryland	933.4	-	-	933.4
North Carolina	28.6	-	-	28.6
South Carolina	217.4	-	-	217.4
Virginia	42.0	-	-	42.0
West Virginia	-	-	-	-
East South Central	**3,659.5**	-	-	**3,659.5**
Alabama	-	-	-	-
Kentucky	25.3	-	-	25.3
Mississippi	3,634.2	-	-	3,634.2
Tennessee	-	-	-	-
West South Central	**62,482.6**	-	-	**62,482.6**
Arkansas	3.4	-	-	3.4
Louisiana	292.9	-	-	292.9
Oklahoma	2,956.5	-	-	2,956.5
Texas	59,229.8	-	-	59,229.8
Mountain	**6,858.4**	-	-	**6,858.4**
Arizona	5,168.7	-	-	5,168.7
Colorado	695.7	-	-	695.7
Idaho	5.2	-	-	5.2
Montana	3.2	-	-	3.2
Nevada	852.6	-	-	852.6
New Mexico	133.0	-	-	133.0
Utah	-	-	-	-
Wyoming	-	-	-	-
Pacific	**6,855.0**	-	-	**6,855.0**
California	6,706.6	-	-	6,706.6
Oregon	35.7	-	-	35.7
Washington	112.6	-	-	112.6
Total	**111,477.1**	-	-	**111,477.1**

[1] Liquified Natural Gas and Synthetic Natural Gas.
[2] Includes small quantities of Coke-Oven Gas, Refinery Gas, and Blast-Furnace Gas.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 36. Basic Coal Statistics for the Past Twelve Months for Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region

Census Region	January 1982	February 1982	March 1982	April 1982	May 1982	June 1982
New England						
Receipts Purchased, 1000 Tons	335.1	388.2	374.6	373.0	361.5	196.4
Total Heating Val, Billion Btu	8,853.6	10,192.3	9,887.5	9,852.4	9,578.3	5,204.3
Sulfur Content, % by Weight	1.7	1.4	1.6	1.6	1.4	1.3
Avg. Cost, ¢ per Million Btu	229.3	237.9	234.3	231.3	242.7	241.5
Total Est. Coal Bill, $1000	20,299.8	24,245.1	23,170.2	22,786.2	23,242.8	12,569.1
Middle Atlantic						
Receipts Purchased, 1000 Tons	3,487.7	3,576.3	4,883.6	4,772.1	4,762.6	4,416.3
Total Heating Val, Billion Btu	84,861.1	86,909.2	118,377.2	116,843.3	116,755.6	108,407.3
Sulfur Content, % by Weight	2.0	1.9	2.0	2.1	2.0	2.0
Avg. Cost, ¢ per Million Btu	168.2	172.7	174.4	167.6	167.3	175.7
Total Est. Coal Bill, $1000	142,757.6	150,064.1	206,400.2	195,860.3	195,276.2	190,436.4
East North Central						
Receipts Purchased, 1000 Tons	10,946.0	10,710.6	13,071.2	12,775.4	12,420.3	12,189.1
Total Heating Val, Billion Btu	240,420.2	236,082.0	289,949.4	284,102.5	273,720.7	270,259.7
Sulfur Content, % by Weight	2.3	2.3	2.2	2.1	2.1	2.0
Avg. Cost, ¢ per Million Btu	171.3	171.3	175.2	178.9	180.4	181.4
Total Est. Coal Bill, $1000	411,808.3	404,449.3	507,939.2	508,309.2	493,833.8	490,291.2
West North Central						
Receipts Purchased, 1000 Tons	5,880.9	6,050.9	6,806.5	6,545.4	6,491.2	6,690.4
Total Heating Val, Billion Btu	103,398.8	106,409.9	124,228.6	119,956.9	118,209.5	119,810.8
Sulfur Content, % by Weight	1.3	1.3	1.4	1.5	1.4	1.4
Avg. Cost, ¢ per Million Btu	123.8	125.2	129.2	131.2	130.1	129.2
Total Est. Coal Bill, $1000	128,026.2	133,274.6	160,523.9	157,340.3	153,799.2	154,760.7
South Atlantic						
Receipts Purchased, 1000 Tons	8,679.0	9,822.1	10,658.2	9,096.8	9,077.3	9,259.5
Total Heating Val, Billion Btu	210,013.1	237,958.0	259,041.4	221,887.1	222,000.6	226,229.2
Sulfur Content, % by Weight	1.6	1.6	1.6	1.6	1.6	1.5
Avg. Cost, ¢ per Million Btu	182.4	183.5	185.5	185.2	186.6	188.0
Total Est. Coal Bill, $1000	383,063.4	436,662.6	480,509.2	410,919.3	414,327.9	425,276.2
East South Central						
Receipts Purchased, 1000 Tons	5,128.3	5,650.4	6,237.4	5,473.3	5,893.9	5,856.1
Total Heating Val, Billion Btu	119,780.3	132,054.6	145,599.8	127,993.9	138,444.0	137,977.1
Sulfur Content, % by Weight	2.1	2.1	2.1	2.1	2.1	2.0
Avg. Cost, ¢ per Million Btu	176.4	181.4	179.1	174.7	179.0	180.1
Total Est. Coal Bill, $1000	211,295.3	239,493.2	260,834.0	223,566.0	247,847.1	248,565.3
West South Central						
Receipts Purchased, 1000 Tons	5,799.9	5,498.6	5,884.2	5,438.2	5,914.6	6,542.5
Total Heating Val, Billion Btu	88,451.7	83,631.5	91,369.5	85,023.0	92,824.1	102,328.2
Sulfur Content, % by Weight	.5	.6	.6	.5	.6	.5
Avg. Cost, ¢ per Million Btu	164.5	161.8	165.8	163.6	165.3	167.5
Total Est. Coal Bill, $1000	145,475.0	135,293.1	151,505.2	139,113.5	153,393.8	171,399.7
Mountain						
Receipts Purchased, 1000 Tons	5,567.7	5,078.1	5,710.9	5,650.5	5,916.4	5,526.5
Total Heating Val, Billion Btu	107,633.1	99,153.8	111,764.8	110,452.0	115,980.5	107,599.7
Sulfur Content, % by Weight	.5	.5	.5	.6	.5	.5
Avg. Cost, ¢ per Million Btu	102.5	108.8	105.3	105.5	100.2	100.8
Total Est. Coal Bill, $1000	110,308.9	107,916.9	117,678.4	116,528.9	116,199.2	108,513.8
Pacific						
Receipts Purchased, 1000 Tons	468.5	510.1	531.0	510.5	500.3	501.0
Total Heating Val, Billion Btu	7,629.3	8,307.8	8,643.1	8,325.3	8,138.8	8,168.3
Sulfur Content, % by Weight	.7	.6	.7	.6	.8	.8
Avg. Cost, ¢ per Million Btu	121.9	124.8	130.8	130.5	131.4	146.4
Total Est. Coal Bill, $1000	9,296.6	10,365.0	11,308.5	10,867.9	10,695.6	11,958.0
Total						
Receipts Purchased, 1000 Tons	46,293.1	47,285.4	54,157.7	50,635.3	51,338.1	51,177.9
Total Heating Val, Billion Btu	971,041.1	1,000,699.1	1,158,861.2	1,084,436.4	1,095,652.1	1,085,984.5
Sulfur Content, % by Weight	1.5	1.6	1.6	1.6	1.5	1.5
Avg. Cost, ¢ per Million Btu	160.9	164.1	165.7	164.6	165.1	167.0
Total Est. Coal Bill, $1000	1,562,330.9	1,641,764.0	1,919,868.7	1,785,291.6	1,808,615.5	1,813,770.3

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 36. Basic Coal Statistics for the Past Twelve Months for Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region-Cont.

Census Region	July 1982	August 1982	September 1982	October 1982	November 1982	December 1982	12 Month Total
New England							
Receipts Purchased, 1000 Tons	202.3	255.1	292.6	192.4	439.8	579.5	3,990.6
Total Heating Val, Billion Btu	5,364.8	6,793.9	7,783.2	5,117.4	11,640.2	15,326.1	105,593.8
Sulfur Content, % by Weight	1.6	1.5	1.6	1.7	1.5	1.4	1.5
Avg. Cost, ¢ per Million Btu	243.4	237.0	228.2	223.6	235.5	237.7	235.4
Total Est. Coal Bill, $1000	13,056.6	16,098.2	17,765.0	11,441.7	27,408.4	36,435.8	248,518.9
Middle Atlantic							
Receipts Purchased, 1000 Tons	3,108.9	4,334.7	4,005.0	4,141.0	3,722.8	4,179.8	49,390.9
Total Heating Val, Billion Btu	75,901.3	106,543.9	98,079.9	101,657.1	91,469.2	102,936.0	1,208,741.1
Sulfur Content, % by Weight	2.0	2.0	2.0	2.0	2.0	1.9	2.0
Avg. Cost, ¢ per Million Btu	166.2	170.4	176.3	163.7	172.1	156.2	169.3
Total Est. Coal Bill, $1000	126,164.4	181,592.0	172,897.2	166,424.7	157,402.8	160,813.5	2,046,089.4
East North Central							
Receipts Purchased, 1000 Tons	10,568.2	13,093.6	12,100.7	12,177.1	12,027.8	11,053.2	143,133.2
Total Heating Val, Billion Btu	232,128.6	290,964.4	269,488.2	271,410.7	268,368.3	244,001.1	3,170,895.8
Sulfur Content, % by Weight	2.0	2.1	2.2	2.2	2.1	2.1	2.1
Avg. Cost, ¢ per Million Btu	182.1	178.8	177.4	180.2	179.8	182.9	178.4
Total Est. Coal Bill, $1000	422,674.2	520,291.9	478,093.0	489,153.4	482,393.4	446,377.2	5,655,614.0
West North Central							
Receipts Purchased, 1000 Tons	6,745.6	7,934.8	5,988.8	6,625.5	6,657.5	6,375.0	78,792.6
Total Heating Val, Billion Btu	121,535.9	143,349.7	108,175.3	120,487.8	118,514.2	113,182.8	1,417,260.2
Sulfur Content, % by Weight	1.3	1.4	1.4	1.4	1.3	1.3	1.4
Avg. Cost, ¢ per Million Btu	133.1	131.4	134.8	138.2	135.5	132.2	131.3
Total Est. Coal Bill, $1000	161,761.3	188,290.9	145,788.9	166,549.4	160,572.5	149,672.7	1,860,360.6
South Atlantic							
Receipts Purchased, 1000 Tons	7,983.7	10,002.1	8,788.2	9,186.9	8,120.3	8,373.2	109,047.3
Total Heating Val, Billion Btu	195,331.7	245,248.5	215,215.0	225,511.4	199,677.0	206,266.4	2,664,379.2
Sulfur Content, % by Weight	1.5	1.5	1.6	1.5	1.5	1.5	1.6
Avg. Cost, ¢ per Million Btu	187.2	186.0	186.1	190.4	190.6	189.2	186.7
Total Est. Coal Bill, $1000	365,582.0	456,103.5	400,529.4	429,323.0	380,608.0	390,352.5	4,973,257.0
East South Central							
Receipts Purchased, 1000 Tons	4,783.2	5,766.8	5,214.2	5,488.6	5,164.3	5,090.4	65,746.9
Total Heating Val, Billion Btu	112,538.8	135,439.8	122,571.5	129,044.6	121,146.8	118,948.4	1,541,539.6
Sulfur Content, % by Weight	1.9	2.1	2.1	2.0	2.0	2.2	2.1
Avg. Cost, ¢ per Million Btu	183.2	180.9	178.8	180.4	179.5	175.7	179.1
Total Est. Coal Bill, $1000	206,158.9	245,051.3	219,173.4	232,748.4	217,454.6	208,958.6	2,761,146.0
West South Central							
Receipts Purchased, 1000 Tons	6,340.1	6,698.6	6,208.1	6,717.4	6,434.6	6,838.0	74,315.0
Total Heating Val, Billion Btu	99,399.0	103,799.1	96,274.0	106,123.2	100,577.0	105,629.1	1,155,429.3
Sulfur Content, % by Weight	.6	.6	.6	.5	.6	.6	.6
Avg. Cost, ¢ per Million Btu	162.9	163.2	164.5	164.6	167.3	162.8	164.5
Total Est. Coal Bill, $1000	161,889.8	169,441.8	158,407.6	174,663.9	168,306.9	172,012.5	1,900,902.9
Mountain							
Receipts Purchased, 1000 Tons	5,513.9	6,251.0	5,777.6	6,903.0	6,634.5	6,945.7	71,476.0
Total Heating Val, Billion Btu	107,745.2	122,115.4	111,731.2	134,730.8	130,157.4	135,140.3	1,394,204.4
Sulfur Content, % by Weight	.5	.5	.6	.6	.5	.6	.5
Avg. Cost, ¢ per Million Btu	98.1	102.1	103.1	99.2	98.1	97.2	101.5
Total Est. Coal Bill, $1000	105,652.9	124,624.6	115,149.6	133,712.6	127,713.9	131,307.8	1,415,307.3
Pacific							
Receipts Purchased, 1000 Tons	520.9	510.7	402.1	369.4	349.6	360.4	5,534.5
Total Heating Val, Billion Btu	8,487.2	8,320.9	6,540.2	6,022.9	5,680.3	5,864.1	90,128.1
Sulfur Content, % by Weight	.6	.7	.7	.7	.7	.6	.7
Avg. Cost, ¢ per Million Btu	156.4	164.1	164.9	166.1	164.0	167.1	145.7
Total Est. Coal Bill, $1000	13,276.0	13,655.0	10,787.4	10,005.4	9,317.6	9,799.0	131,332.0
Total							
Receipts Purchased, 1000 Tons	45,766.8	54,847.4	48,777.4	51,801.3	49,551.2	49,795.3	601,426.9
Total Heating Val, Billion Btu	958,432.6	1,162,575.7	1,035,858.5	1,100,105.8	1,047,230.4	1,047,294.3	12,748,171.7
Sulfur Content, % by Weight	1.4	1.5	1.5	1.5	1.5	1.4	1.5
Avg. Cost, ¢ per Million Btu	164.5	164.7	165.9	164.9	165.3	162.9	164.7
Total Est. Coal Bill, $1000	1,576,216.2	1,915,149.2	1,718,591.6	1,814,022.5	1,731,178.1	1,705,729.6	20,992,528.2

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 37. Basic Fuel Oil Statistics for the Past Twelve Months for Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region

Census Region	January 1982	February 1982	March 1982	April 1982	May 1982	June 1982
New England						
Receipts Purchased, 1000 Bbls	6,425.8	5,785.3	6,315.7	3,549.7	2,680.7	3,218.1
Total Heating Val, Billion Btu	40,305.4	36,310.9	39,525.5	22,209.4	16,779.7	20,176.2
Sulfur Content, % by Weight	1.5	1.3	1.6	1.4	1.5	1.5
Avg. Cost, ¢ per Million Btu	441.9	447.5	416.4	422.3	438.0	446.9
Total Est. Oil Bill, $1000	178,122.1	162,485.4	164,565.6	93,796.4	73,487.7	90,176.0
Middle Atlantic						
Receipts Purchased, 1000 Bbls	10,209.6	7,483.9	7,345.6	5,533.3	4,283.7	4,614.7
Total Heating Val, Billion Btu	63,241.9	46,371.4	45,698.9	34,479.9	26,763.7	28,765.9
Sulfur Content, % by Weight	1.0	.9	1.0	1.1	1.4	1.3
Avg. Cost, ¢ per Million Btu	496.8	503.0	478.3	462.7	468.4	482.0
Total Est. Oil Bill, $1000	314,171.7	233,237.9	218,557.5	159,541.4	125,350.0	138,642.7
East North Central						
Receipts Purchased, 1000 Bbls	956.4	1,142.1	1,138.9	1,233.5	1,340.7	1,108.9
Total Heating Val, Billion Btu	5,958.5	7,053.0	7,072.9	7,761.0	8,419.1	6,971.4
Sulfur Content, % by Weight	.6	.7	.7	.7	.7	.7
Avg. Cost, ¢ per Million Btu	729.7	625.5	679.3	697.3	691.7	658.4
Total Est. Oil Bill, $1000	43,479.8	44,116.2	48,045.9	54,118.4	58,237.6	45,898.9
West North Central						
Receipts Purchased, 1000 Bbls	199.6	198.1	103.4	95.0	64.7	141.6
Total Heating Val, Billion Btu	1,231.4	1,211.2	635.5	569.8	378.1	856.2
Sulfur Content, % by Weight	1.3	1.0	1.0	.7	.5	.7
Avg. Cost, ¢ per Million Btu	500.2	518.4	482.4	521.6	634.3	571.9
Total Est. Oil Bill, $1000	6,158.9	6,279.0	3,065.8	2,971.9	2,398.2	4,896.7
South Atlantic						
Receipts Purchased, 1000 Bbls	7,218.5	5,200.4	6,648.9	4,816.7	5,157.9	6,326.7
Total Heating Val, Billion Btu	45,340.4	32,746.0	41,902.8	30,394.7	32,485.4	39,878.4
Sulfur Content, % by Weight	1.6	1.5	1.6	1.4	1.6	1.6
Avg. Cost, ¢ per Million Btu	456.6	446.3	421.9	427.3	448.0	454.5
Total Est. Oil Bill, $1000	207,005.6	146,134.2	176,795.8	129,868.6	145,536.7	181,247.0
East South Central						
Receipts Purchased, 1000 Bbls	265.4	55.0	39.3	48.0	106.1	82.3
Total Heating Val, Billion Btu	1,647.4	318.6	229.2	280.4	636.4	492.5
Sulfur Content, % by Weight	2.2	.4	.4	.6	1.2	1.2
Avg. Cost, ¢ per Million Btu	490.4	799.7	785.0	674.3	550.1	624.8
Total Est. Oil Bill, $1000	8,079.1	2,548.2	1,799.3	1,891.1	3,500.9	3,077.1
West South Central						
Receipts Purchased, 1000 Bbls	980.5	375.1	235.4	146.8	563.3	330.6
Total Heating Val, Billion Btu	6,018.5	2,278.6	1,442.7	874.1	3,557.8	2,054.4
Sulfur Content, % by Weight	.7	.6	.6	.5	1.4	1.1
Avg. Cost, ¢ per Million Btu	469.4	484.7	498.3	522.9	383.7	430.5
Total Est. Oil Bill, $1000	28,248.4	11,045.2	7,188.8	4,571.1	13,651.6	8,843.7
Mountain						
Receipts Purchased, 1000 Bbls	66.7	64.6	103.0	75.4	34.7	72.0
Total Heating Val, Billion Btu	395.4	385.4	611.8	458.7	208.0	437.9
Sulfur Content, % by Weight	.3	.3	.3	.4	.3	.5
Avg. Cost, ¢ per Million Btu	624.9	628.3	602.6	458.2	587.2	556.0
Total Est. Oil Bill, $1000	2,470.8	2,421.1	3,687.0	2,101.5	1,221.2	2,434.3
Pacific						
Receipts Purchased, 1000 Bbls	1,705.8	1,599.2	2,824.4	1,290.4	1,102.2	917.3
Total Heating Val, Billion Btu	10,488.5	9,884.6	17,535.3	7,939.4	6,806.9	5,740.9
Sulfur Content, % by Weight	.3	.4	.4	.3	.3	.5
Avg. Cost, ¢ per Million Btu	693.7	669.8	632.1	720.7	707.3	665.5
Total Est. Oil Bill, $1000	72,754.5	66,202.9	110,838.5	57,216.6	48,142.7	38,203.3
Total						
Receipts Purchased, 1000 Bbls	28,028.3	21,903.9	24,754.7	16,788.8	15,334.0	16,812.2
Total Heating Val, Billion Btu	174,627.5	136,559.5	154,654.5	104,967.3	96,035.1	105,373.7
Sulfur Content, % by Weight	1.2	1.1	1.2	1.1	1.3	1.3
Avg. Cost, ¢ per Million Btu	492.8	493.9	475.0	482.1	491.0	487.2
Total Est. Oil Bill, $1000	860,491.0	674,470.0	734,544.2	506,076.8	471,526.7	513,419.8

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 37. Basic Fuel Oil Statistics for the Past Twelve Months for Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region-Cont.

Census Region	July 1982	August 1982	September 1982	October 1982	November 1982	December 1982	12 Month Total
New England							
Receipts Purchased, 1000 Bbls	3,491.8	3,763.0	4,506.3	3,851.2	5,230.2	6,123.1	54,941.0
Total Heating Val, Billion Btu	21,857.2	23,596.0	28,247.4	24,170.2	32,855.2	38,476.9	344,509.9
Sulfur Content, % by Weight	1.5	1.2	1.4	1.4	1.2	1.6	1.4
Avg. Cost, ¢ per Million Btu	442.2	440.2	438.5	461.4	481.8	433.8	442.3
Total Est. Oil Bill, $1000	96,650.7	103,863.3	123,872.7	111,529.8	158,281.4	166,906.6	1,523,737.9
Middle Atlantic							
Receipts Purchased, 1000 Bbls	5,948.7	6,590.6	4,724.7	4,470.1	5,034.9	6,900.4	73,140.2
Total Heating Val, Billion Btu	37,032.9	41,138.2	29,503.5	27,854.4	31,306.6	43,081.4	455,238.6
Sulfur Content, % by Weight	1.2	1.3	1.3	1.1	.9	1.2	1.1
Avg. Cost, ¢ per Million Btu	475.5	462.7	469.0	489.2	506.9	462.1	480.7
Total Est. Oil Bill, $1000	176,090.1	190,335.6	138,377.4	136,272.0	158,706.3	199,060.5	2,188,343.2
East North Central							
Receipts Purchased, 1000 Bbls	1,097.4	790.3	733.3	829.4	385.6	347.3	11,103.8
Total Heating Val, Billion Btu	6,908.9	4,954.2	4,582.9	5,224.9	2,382.2	2,157.4	69,446.2
Sulfur Content, % by Weight	.7	.7	.7	.7	.5	.6	.7
Avg. Cost, ¢ per Million Btu	689.1	639.8	644.3	655.3	705.9	695.0	675.0
Total Est. Oil Bill, $1000	47,612.4	31,697.8	29,528.1	34,238.0	16,816.4	14,993.9	468,783.4
West North Central							
Receipts Purchased, 1000 Bbls	66.4	75.8	47.1	39.1	89.4	91.7	1,211.9
Total Heating Val, Billion Btu	388.4	462.7	287.9	236.9	532.9	559.0	7,349.9
Sulfur Content, % by Weight	.5	.9	1.0	1.1	.7	1.2	.9
Avg. Cost, ¢ per Million Btu	668.7	473.2	480.6	523.8	559.8	523.2	531.8
Total Est. Oil Bill, $1000	2,597.0	2,189.2	1,383.4	1,240.9	2,983.5	2,924.6	39,088.9
South Atlantic							
Receipts Purchased, 1000 Bbls	8,480.5	6,594.6	5,737.2	4,462.3	3,183.6	3,561.4	67,388.5
Total Heating Val, Billion Btu	53,376.4	41,533.9	36,282.8	28,080.2	20,005.9	22,419.5	424,446.5
Sulfur Content, % by Weight	1.5	1.5	1.5	1.8	1.5	1.5	1.5
Avg. Cost, ¢ per Million Btu	442.5	433.7	443.7	444.7	467.0	438.4	443.0
Total Est. Oil Bill, $1000	236,188.8	180,113.1	161,001.8	124,865.6	93,427.9	98,296.3	1,880,481.5
East South Central							
Receipts Purchased, 1000 Bbls	63.2	65.2	53.3	38.0	42.6	59.9	918.5
Total Heating Val, Billion Btu	367.7	380.6	317.3	221.1	247.6	348.4	5,487.3
Sulfur Content, % by Weight	.4	.3	1.0	.4	.5	.4	1.1
Avg. Cost, ¢ per Million Btu	754.1	752.3	672.5	788.2	782.1	695.0	633.6
Total Est. Oil Bill, $1000	2,773.0	2,863.2	2,133.7	1,743.0	1,936.2	2,421.4	34,766.1
West South Central							
Receipts Purchased, 1000 Bbls	106.2	147.0	117.4	115.2	151.4	187.8	3,456.8
Total Heating Val, Billion Btu	636.3	885.6	697.5	686.6	897.2	1,117.5	21,146.9
Sulfur Content, % by Weight	.4	.4	.4	.5	.5	.5	.7
Avg. Cost, ¢ per Million Btu	591.1	546.0	558.6	571.9	582.0	593.5	481.5
Total Est. Oil Bill, $1000	3,760.6	4,835.8	3,896.5	3,926.4	5,221.6	6,632.0	101,821.7
Mountain							
Receipts Purchased, 1000 Bbls	49.5	25.7	35.9	19.8	24.6	50.0	622.0
Total Heating Val, Billion Btu	304.5	152.6	213.1	115.7	146.7	291.7	3,721.3
Sulfur Content, % by Weight	.6	.3	.3	.2	.4	.3	.4
Avg. Cost, ¢ per Million Btu	526.5	623.3	647.1	680.1	628.7	721.6	593.4
Total Est. Oil Bill, $1000	1,603.3	950.9	1,379.0	786.9	922.1	2,104.8	22,083.0
Pacific							
Receipts Purchased, 1000 Bbls	882.6	779.6	814.2	169.0	401.1	463.9	12,949.7
Total Heating Val, Billion Btu	5,532.0	4,887.7	5,119.2	1,061.2	2,503.8	2,918.1	80,417.7
Sulfur Content, % by Weight	.5	.6	.6	.5	.4	.4	.4
Avg. Cost, ¢ per Million Btu	594.7	648.9	667.9	1,052.3	703.9	804.2	677.0
Total Est. Oil Bill, $1000	32,896.7	31,714.1	34,188.9	11,167.6	17,623.5	23,467.4	544,416.7
Total							
Receipts Purchased, 1000 Bbls	20,186.3	18,831.9	16,769.5	13,994.2	14,543.4	17,785.4	225,732.5
Total Heating Val, Billion Btu	126,404.3	117,991.5	105,251.5	87,651.2	90,878.1	111,369.9	1,411,764.2
Sulfur Content, % by Weight	1.3	1.3	1.3	1.3	1.1	1.3	1.3
Avg. Cost, ¢ per Million Btu	474.8	464.9	471.0	485.8	501.7	464.0	481.9
Total Est. Oil Bill, $1000	600,172.7	548,563.2	495,761.6	425,770.1	455,918.9	516,807.4	6,803,522.4

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 38. Basic Fuel Oil Statistics for the Past Twelve Months at Peaking Units for Plants of 25-Megawatt Capacity or Larger, by Census Region

Census Region	January 1982	February 1982	March 1982	April 1982	May 1982	June 1982
New England						
Receipts Purchased, 1000 Bbls	11.0	7.7	9.4	3.1	1.3	1.8
Total Heating Val, Billion Btu	63.0	44.8	54.6	18.2	7.5	10.2
Sulfur Content, % by Weight	.2	.3	.2	.2	.2	.2
Avg. Cost, ¢ per Million Btu	763.6	739.0	676.2	670.4	705.7	727.6
Total Est. Oil Bill, $1000	480.8	330.8	369.3	121.8	52.9	74.5
Middle Atlantic						
Receipts Purchased, 1000 Bbls	354.6	209.4	72.9	84.6	45.2	74.8
Total Heating Val, Billion Btu	2,053.3	1,219.7	421.4	487.0	242.8	429.0
Sulfur Content, % by Weight	.1	.1	.1	.1	.1	.1
Avg. Cost, ¢ per Million Btu	749.5	723.2	692.2	649.2	691.1	719.0
Total Est. Oil Bill, $1000	15,388.6	8,821.2	2,916.5	3,162.1	1,678.2	3,084.5
East North Central						
Receipts Purchased, 1000 Bbls	89.1	40.5	68.4	15.0	62.0	47.8
Total Heating Val, Billion Btu	515.1	233.6	401.4	87.1	360.4	278.3
Sulfur Content, % by Weight	.3	.3	.3	.4	.5	.5
Avg. Cost, ¢ per Million Btu	775.0	787.6	694.7	816.9	703.7	769.3
Total Est. Oil Bill, $1000	3,992.0	1,840.2	2,788.4	711.7	2,536.6	2,140.7
West North Central						
Receipts Purchased, 1000 Bbls	42.3	14.2	4.1	8.1	1.0	5.0
Total Heating Val, Billion Btu	241.3	81.1	23.7	46.6	5.8	28.8
Sulfur Content, % by Weight	.3	.2	.3	.3	.3	.3
Avg. Cost, ¢ per Million Btu	730.6	684.6	638.2	630.2	663.0	729.2
Total Est. Oil Bill, $1000	1,762.9	555.4	151.6	293.9	38.1	209.8
South Atlantic						
Receipts Purchased, 1000 Bbls	264.2	68.5	28.3	32.3	21.1	84.9
Total Heating Val, Billion Btu	1,547.0	400.1	164.4	186.1	121.6	486.5
Sulfur Content, % by Weight	.3	.3	.2	.2	.2	.2
Avg. Cost, ¢ per Million Btu	683.9	703.4	647.7	696.8	691.0	715.4
Total Est. Oil Bill, $1000	10,580.0	2,814.0	1,065.1	1,296.7	840.0	3,480.6
East South Central						
Receipts Purchased, 1000 Bbls	-	-	-	-	-	-
Total Heating Val, Billion Btu	-	-	-	-	-	-
Sulfur Content, % by Weight	-	-	-	-	-	-
Avg. Cost, ¢ per Million Btu	-	-	-	-	-	-
Total Est. Oil Bill, $1000	-	-	-	-	-	-
West South Central						
Receipts Purchased, 1000 Bbls	55.7	10.8	1.5	.9	1.5	1.6
Total Heating Val, Billion Btu	328.3	63.0	8.9	5.2	8.7	9.2
Sulfur Content, % by Weight	.6	.7	.5	.3	.2	.1
Avg. Cost, ¢ per Million Btu	275.5	198.7	341.0	510.5	232.7	440.2
Total Est. Oil Bill, $1000	904.6	125.2	30.3	26.6	20.2	40.5
Mountain						
Receipts Purchased, 1000 Bbls	-	-	-	-	-	-
Total Heating Val, Billion Btu	-	-	-	-	-	-
Sulfur Content, % by Weight	-	-	-	-	-	-
Avg. Cost, ¢ per Million Btu	-	-	-	-	-	-
Total Est. Oil Bill, $1000	-	-	-	-	-	-
Pacific						
Receipts Purchased, 1000 Bbls	-	-	10.1	16.3	87.1	-
Total Heating Val, Billion Btu	-	-	59.9	94.0	452.4	-
Sulfur Content, % by Weight	-	-	.2	.1	.1	-
Avg. Cost, ¢ per Million Btu	-	-	679.2	692.7	691.4	-
Total Est. Oil Bill, $1000	-	-	406.8	651.0	3,127.9	-
Total						
Receipts Purchased, 1000 Bbls	816.9	351.1	194.7	160.3	219.3	215.8
Total Heating Val, Billion Btu	4,748.0	2,042.3	1,134.3	924.2	1,199.1	1,242.0
Sulfur Content, % by Weight	.2	.2	.2	.2	.2	.2
Avg. Cost, ¢ per Million Btu	697.3	709.3	681.3	677.7	691.6	727.1
Total Est. Oil Bill, $1000	33,108.9	14,486.8	7,728.0	6,263.6	8,293.9	9,030.6

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 38. Basic Fuel Oil Statistics for the Past Twelve Months at Peaking Units for Plants of 25-Megawatt Capacity or Larger, by Census Region-Cont.

Census Region	July 1982	August 1982	September 1982	October 1982	November 1982	December 1982	12 Month Total
New England							
Receipts Purchased, 1000 Bbls	5.9	7.5	3.5	1.8	52.7	57.0	162.7
Total Heating Val, Billion Btu	33.4	43.1	20.1	10.1	309.2	334.1	948.3
Sulfur Content, % by Weight	.2	.2	.2	.1	*	*	.1
Avg. Cost, ¢ per Million Btu	777.5	749.2	746.3	776.0	718.4	685.9	712.3
Total Est. Oil Bill, $1000	259.8	323.2	149.9	78.6	2,220.8	2,291.8	6,754.3
Middle Atlantic							
Receipts Purchased, 1000 Bbls	213.1	131.4	27.8	105.2	131.1	99.6	1,549.7
Total Heating Val, Billion Btu	1,243.6	755.7	159.2	596.0	765.3	590.3	8,963.2
Sulfur Content, % by Weight	.1	.1	.1	*	.1	.1	.1
Avg. Cost, ¢ per Million Btu	688.1	706.2	694.3	766.5	710.4	650.3	712.8
Total Est. Oil Bill, $1000	8,556.7	5,336.9	1,105.3	4,568.3	5,436.1	3,838.6	63,893.1
East North Central							
Receipts Purchased, 1000 Bbls	52.1	51.3	48.5	14.3	12.4	3.5	504.9
Total Heating Val, Billion Btu	302.5	297.8	281.7	81.7	71.5	20.5	2,931.7
Sulfur Content, % by Weight	.5	.5	.5	.3	.3	.4	.4
Avg. Cost, ¢ per Million Btu	736.8	708.4	729.0	773.1	924.8	713.7	745.0
Total Est. Oil Bill, $1000	2,229.1	2,109.4	2,053.9	631.4	661.4	146.4	21,841.1
West North Central							
Receipts Purchased, 1000 Bbls	-	-	-	5.0	3.0	-	82.7
Total Heating Val, Billion Btu	-	-	-	28.8	17.3	-	473.4
Sulfur Content, % by Weight	-	-	-	.3	.3	-	.3
Avg. Cost, ¢ per Million Btu	-	-	-	729.5	751.8	-	708.0
Total Est. Oil Bill, $1000	-	-	-	209.9	129.8	-	3,351.4
South Atlantic							
Receipts Purchased, 1000 Bbls	62.9	103.5	80.2	40.5	44.4	21.9	852.7
Total Heating Val, Billion Btu	361.9	621.9	476.9	233.5	254.7	125.8	4,980.5
Sulfur Content, % by Weight	.2	.5	.4	.2	.2	.2	.3
Avg. Cost, ¢ per Million Btu	734.0	565.9	607.3	713.4	782.4	718.1	676.9
Total Est. Oil Bill, $1000	2,656.2	3,519.4	2,896.3	1,665.8	1,993.1	903.6	33,711.0
East South Central							
Receipts Purchased, 1000 Bbls	-	-	-	-	-	-	-
Total Heating Val, Billion Btu	-	-	-	-	-	-	-
Sulfur Content, % by Weight	-	-	-	-	-	-	-
Avg. Cost, ¢ per Million Btu	-	-	-	-	-	-	-
Total Est. Oil Bill, $1000	-	-	-	-	-	-	-
West South Central							
Receipts Purchased, 1000 Bbls	2.3	.9	.8	2.4	11.4	.6	90.3
Total Heating Val, Billion Btu	13.1	5.2	4.7	13.9	65.9	3.5	529.7
Sulfur Content, % by Weight	.2	.3	.3	.2	*	.2	.5
Avg. Cost, ¢ per Million Btu	664.3	654.5	721.0	665.0	235.0	685.6	297.2
Total Est. Oil Bill, $1000	87.3	34.0	34.0	92.6	154.9	24.1	1,574.1
Mountain							
Receipts Purchased, 1000 Bbls	.2	.1	-	-	-	-	.3
Total Heating Val, Billion Btu	1.1	.6	-	-	-	-	1.7
Sulfur Content, % by Weight	.3	.3	-	-	-	-	.3
Avg. Cost, ¢ per Million Btu	542.1	542.1	-	-	-	-	542.1
Total Est. Oil Bill, $1000	6.0	3.0	-	-	-	-	9.0
Pacific							
Receipts Purchased, 1000 Bbls	36.4	-	-	-	29.9	.4	180.2
Total Heating Val, Billion Btu	212.2	-	-	-	169.7	2.4	990.6
Sulfur Content, % by Weight	.2	-	-	-	*	.2	.1
Avg. Cost, ¢ per Million Btu	704.0	-	-	-	577.3	719.5	674.0
Total Est. Oil Bill, $1000	1,494.2	-	-	-	979.8	17.0	6,676.6
Total							
Receipts Purchased, 1000 Bbls	372.7	294.6	160.8	169.1	284.9	183.0	3,423.5
Total Heating Val, Billion Btu	2,167.9	1,724.3	942.6	964.0	1,653.6	1,076.6	19,819.0
Sulfur Content, % by Weight	.2	.3	.4	.1	.1	.1	.2
Avg. Cost, ¢ per Million Btu	705.3	656.8	661.9	751.7	700.1	670.8	695.3
Total Est. Oil Bill, $1000	15,289.4	11,325.9	6,239.4	7,246.6	11,576.0	7,221.4	137,810.6

* = Number less than 0.05 rounded to zero.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 39. Basic Gas Statistics for the Past Twelve Months for Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region

Census Region	January 1982	February 1982	March 1982	April 1982	May 1982	June 1982
New England						
Qntv Purchased: Firm 1000 Mcf	-	-	-	-	-	-
Interruptible 1000 Mcf[1]	1.3	9.9	661.8	500.2	595.1	1,794.5
Total 1000 Mcf	1.3	9.9	661.8	500.2	595.1	1,794.5
Total Heating Val, Billion Btu	1.3	9.9	661.8	500.2	595.1	1,962.0
Avg. Cost, ¢ per Million Btu	499.6	499.6	399.0	380.2	421.7	392.6
Total Est. Gas Bill, $1000	6.7	49.7	2,640.4	1,901.5	2,509.7	7,703.1
Middle Atlantic						
Qnty Purchased: Firm 1000 Mcf	447.9	2,475.2	5,123.7	5,338.8	7,024.1	7,535.7
Interruptible 1000 Mcf[1]	1,399.9	2,742.0	10,227.4	8,498.4	11,677.0	12,370.4
Total 1000 Mcf	1,847.8	5,217.2	15,351.1	13,837.2	18,701.1	19,906.1
Total Heating Val, Billion Btu	1,907.0	5,371.0	15,821.1	14,269.8	19,267.0	20,516.5
Avg. Cost, ¢ per Million Btu	375.4	367.2	376.6	372.8	384.7	377.3
Total Est. Gas Bill, $1000	7,158.6	19,720.7	59,583.3	53,194.4	74,118.4	77,401.7
East North Central						
Qnty Purchased: Firm 1000 Mcf	2,449.0	835.6	949.3	520.0	1,076.2	332.9
Interruptible 1000 Mcf[1]	1,635.6	1,349.7	499.9	431.0	362.1	363.8
Total 1000 Mcf	4,084.6	2,185.3	1,449.2	951.0	1,438.3	696.7
Total Heating Val, Billion Btu	3,701.2	1,827.4	1,387.6	919.8	1,382.6	560.1
Avg. Cost, ¢ per Million Btu	431.2	378.6	374.3	404.2	443.4	391.8
Total Est. Gas Bill, $1000	15,958.0	6,919.5	5,193.7	3,718.2	6,130.1	2,194.3
West North Central						
Qnty Purchased: Firm 1000 Mcf	1,211.7	1,461.6	1,184.7	1,247.7	1,234.4	1,258.2
Interruptible 1000 Mcf[1]	4,306.8	4,353.1	4,254.8	3,679.3	3,727.8	3,977.8
Total 1000 Mcf	5,518.5	5,814.7	5,439.5	4,927.0	4,962.2	5,236.0
Total Heating Val, Billion Btu	5,288.1	5,550.2	5,290.2	4,720.2	4,788.0	5,085.7
Avg. Cost, ¢ per Million Btu	264.1	265.6	258.8	254.3	262.8	256.7
Total Est. Gas Bill, $1000	13,964.0	14,743.0	13,689.0	12,002.0	12,581.9	13,054.2
South Atlantic						
Qnty Purchased: Firm 1000 Mcf	7,312.2	6,951.6	8,721.0	9,305.6	9,015.7	9,895.6
Interruptible 1000 Mcf[1]	4,107.0	4,792.7	6,022.5	6,224.7	6,598.0	7,087.1
Total 1000 Mcf	11,419.2	11,744.3	14,743.5	15,530.3	15,613.7	16,982.7
Total Heating Val, Billion Btu	11,562.0	11,918.0	14,986.2	15,775.1	15,865.1	17,249.3
Avg. Cost, ¢ per Million Btu	190.7	202.6	222.6	218.8	234.2	235.1
Total Est. Gas Bill, $1000	22,053.3	24,145.8	33,363.0	34,516.1	37,154.2	40,546.2
East South Central						
Qnty Purchased: Firm 1000 Mcf	4,606.1	5,032.1	4,612.7	6,429.9	7,507.6	9,237.1
Interruptible 1000 Mcf[1]	155.9	95.1	171.0	109.5	168.2	156.2
Total 1000 Mcf	4,762.0	5,127.2	4,783.8	6,539.3	7,675.8	9,393.3
Total Heating Val, Billion Btu	4,869.0	5,261.5	4,896.1	6,684.6	7,857.1	9,592.2
Avg. Cost, ¢ per Million Btu	278.0	291.0	292.1	298.7	307.7	319.9
Total Est. Gas Bill, $1000	13,534.6	15,309.5	14,300.0	19,966.0	24,173.3	30,684.8
West South Central						
Qnty Purchased: Firm 1000 Mcf	127,269.8	115,796.5	123,552.9	119,364.9	133,198.8	157,295.2
Interruptible 1000 Mcf[1]	18,470.7	16,584.1	20,792.4	21,278.6	19,368.5	20,056.6
Total 1000 Mcf	145,740.6	132,380.6	144,345.3	140,643.5	152,567.3	177,351.9
Total Heating Val, Billion Btu	150,608.7	137,213.0	149,629.6	145,976.1	158,659.6	184,561.1
Avg. Cost, ¢ per Million Btu	261.5	274.1	278.9	294.5	295.5	315.6
Total Est. Gas Bill, $1000	393,813.9	376,035.9	417,319.3	429,877.5	468,877.7	582,529.9
Mountain						
Qnty Purchased: Firm 1000 Mcf	3,404.1	3,064.5	2,678.5	2,601.1	2,423.7	3,370.2
Interruptible 1000 Mcf[1]	4,756.2	4,814.9	4,175.0	3,830.6	3,303.8	3,226.2
Total 1000 Mcf	8,160.3	7,879.4	6,853.5	6,431.8	5,727.5	6,596.4
Total Heating Val, Billion Btu	8,468.0	8,173.3	7,108.4	6,658.3	5,946.5	6,882.9
Avg. Cost, ¢ per Million Btu	331.5	325.7	326.5	344.1	346.0	347.7
Total Est. Gas Bill, $1000	28,068.6	26,618.2	23,208.8	22,912.4	20,575.1	23,933.5
Pacific						
Qnty Purchased: Firm 1000 Mcf	-	-	-	-	-	-
Interruptible 1000 Mcf[1]	39,436.7	38,163.4	40,655.7	38,159.8	34,130.7	40,825.7
Total 1000 Mcf	39,436.7	38,163.4	40,655.7	38,159.8	34,130.7	40,825.7
Total Heating Val, Billion Btu	41,863.4	40,331.6	42,796.2	40,170.2	35,922.3	43,013.7
Avg. Cost, ¢ per Million Btu	460.1	460.8	459.7	458.5	511.8	517.8
Total Est. Gas Bill, $1000	192,614.5	185,856.3	196,716.2	184,191.0	183,837.6	222,743.5
Total						
Qnty Purchased: Firm 1000 Mcf	146,700.9	135,617.1	146,822.7	144,808.0	161,480.3	188,924.9
Interruptible 1000 Mcf[1]	74,270.2	72,905.0	87,460.7	82,712.1	79,931.2	89,858.4
Total 1000 Mcf	220,971.1	208,522.2	234,283.4	227,520.0	241,411.5	278,783.3
Total Heating Val, Billion Btu	228,268.6	215,656.0	242,577.2	235,674.2	250,283.3	289,423.4
Avg. Cost, ¢ per Million Btu	301.0	310.4	315.8	323.4	331.6	345.8
Total Est. Gas Bill, $1000	687,172.2	669,398.5	766,013.8	762,279.1	829,958.2	1,000,791.2

[1] Includes Off-Peak Gas.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 39. Basic Gas Statistics for the Past Twelve Months for Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region—Continued

Census Region	July 1982	August 1982	September 1982	October 1982	November 1982	December 1982	12 Month Total
New England							
Qnty Purchased: Firm 1000 Mcf	-	-	-	-	-	-	-
Interruptible 1000 Mcf[1]	3,350.3	2,591.4	2,121.5	1,644.9	973.3	403.9	14,648.3
Total 1000 Mcf	3,350.3	2,591.4	2,121.5	1,644.9	973.3	403.9	14,648.3
Total Heating Val, Billion Btu	3,661.5	2,678.6	2,193.9	1,746.5	989.1	416.5	15,416.5
Avg. Cost, ¢ per Million Btu	388.7	392.2	401.3	408.9	417.9	446.8	398.8
Total Est. Gas Bill, $1000	14,231.6	10,505.8	8,803.0	7,141.1	4,133.1	1,861.0	61,486.8
Middle Atlantic							
Qnty Purchased: Firm 1000 Mcf	7,569.0	6,696.4	7,263.3	8,309.0	6,958.4	4,525.2	69,266.7
Interruptible 1000 Mcf[1]	16,151.1	15,720.8	15,401.7	16,554.7	11,536.2	7,903.7	130,183.2
Total 1000 Mcf	23,720.1	22,417.2	22,665.0	24,863.7	18,494.6	12,428.9	199,449.9
Total Heating Val, Billion Btu	24,444.5	23,101.5	23,368.3	25,663.1	19,109.9	12,793.1	205,632.9
Avg. Cost, ¢ per Million Btu	402.7	401.5	409.4	416.5	425.5	430.3	399.4
Total Est. Gas Bill, $1000	98,432.1	92,759.8	95,667.0	106,882.3	81,321.9	55,048.9	821,289.2
East North Central							
Qnty Purchased: Firm 1000 Mcf	297.3	357.5	452.6	353.3	701.9	941.4	9,267.0
Interruptible 1000 Mcf[1]	377.7	421.1	264.7	374.8	537.0	342.0	6,959.3
Total 1000 Mcf	675.0	778.7	717.3	728.1	1,238.9	1,283.4	16,226.3
Total Heating Val, Billion Btu	608.0	768.2	698.5	573.4	1,108.5	898.3	14,433.6
Avg. Cost, ¢ per Million Btu	400.7	408.2	419.6	423.8	444.6	434.7	414.9
Total Est. Gas Bill, $1000	2,436.2	3,135.7	2,930.6	2,430.0	4,928.6	3,904.8	59,879.8
West North Central							
Qnty Purchased: Firm 1000 Mcf	1,543.8	1,572.4	1,360.8	1,233.6	1,281.7	1,169.4	15,760.0
Interruptible 1000 Mcf[1]	5,205.0	4,651.7	3,483.2	3,053.0	3,396.9	3,399.9	47,489.3
Total 1000 Mcf	6,748.8	6,224.1	4,844.0	4,286.6	4,678.6	4,569.3	63,249.3
Total Heating Val, Billion Btu	6,587.3	6,035.7	4,662.1	4,078.3	4,541.8	4,370.0	60,997.6
Avg. Cost, ¢ per Million Btu	266.6	267.4	262.9	277.1	263.9	277.3	264.6
Total Est. Gas Bill, $1000	17,561.9	16,137.8	12,256.7	11,302.6	11,983.6	12,116.1	161,392.8
South Atlantic							
Qnty Purchased: Firm 1000 Mcf	9,553.5	10,063.7	10,796.3	9,937.4	11,094.7	9,228.1	111,875.4
Interruptible 1000 Mcf[1]	7,780.7	8,050.6	5,930.6	6,126.8	4,474.8	4,753.7	71,949.3
Total 1000 Mcf	17,334.2	18,114.3	16,726.9	16,064.2	15,569.5	13,981.9	183,824.7
Total Heating Val, Billion Btu	17,683.1	18,461.9	16,987.9	16,323.6	15,762.6	14,150.7	186,725.4
Avg. Cost, ¢ per Million Btu	254.9	243.7	219.3	241.2	229.3	223.1	228.2
Total Est. Gas Bill, $1000	45,066.8	44,983.6	37,250.9	39,378.7	36,145.0	31,571.4	426,175.0
East South Central							
Qnty Purchased: Firm 1000 Mcf	9,721.9	9,553.6	7,111.0	7,448.6	3,938.4	3,913.2	79,112.3
Interruptible 1000 Mcf[1]	337.9	149.9	123.4	64.8	84.0	150.5	1,766.5
Total 1000 Mcf	10,059.9	9,703.5	7,234.4	7,513.5	4,022.4	4,063.6	80,878.8
Total Heating Val, Billion Btu	10,260.9	9,967.1	7,393.3	7,690.7	4,127.6	4,175.5	82,775.6
Avg. Cost, ¢ per Million Btu	328.1	325.9	333.1	346.6	314 4	309.0	315.7
Total Est. Gas Bill, $1000	33,670.2	32,461.0	24,629.1	26,658.4	12,976.7	12,902.3	261,285.8
West South Central							
Qnty Purchased: Firm 1000 Mcf	175,904.2	180,969.9	142,061.1	128,641.0	105,058.1	104,494.1	1,613,606.5
Interruptible 1000 Mcf[1]	22,979.4	28,837.5	24,196.1	20,593.3	20,310.4	14,488.9	247,956.8
Total 1000 Mcf	198,883.7	209,807.4	166,257.2	149,234.3	125,368.6	118,983.0	1,861,563.3
Total Heating Val, Billion Btu	206,535.2	217,989.7	172,481.5	154,443.7	129,710.2	122,929.2	1,930,737.6
Avg. Cost, ¢ per Million Btu	316.0	316.7	323.0	311.5	300.6	302.9	301.0
Total Est. Gas Bill, $1000	652,636.1	690,420.4	557,194.4	481,129.2	389,852.9	372,337.6	5,812,024.7
Mountain							
Qnty Purchased: Firm 1000 Mcf	4,518.8	5,005.7	3,141.3	1,355.1	1,912.2	1,804.7	35,280.0
Interruptible 1000 Mcf[1]	4,605.5	4,692.9	4,532.8	3,349.2	2,868.4	2,883.0	47,038.6
Total 1000 Mcf	9,124.3	9,698.7	7,674.1	4,704.4	4,780.6	4,687.7	82,318.6
Total Heating Val, Billion Btu	9,441.9	9,984.1	7,884.0	4,812.2	4,880.0	4,794.3	85,033.9
Avg. Cost, ¢ per Million Btu	345.9	362.0	360.3	355.4	374.1	378.9	348.2
Total Est. Gas Bill, $1000	32,661.3	36,142.6	28,405.3	17,103.7	18,254.6	18,168.0	296,052.0
Pacific							
Qnty Purchased: Firm 1000 Mcf	-	-	-	-	-	-	-
Interruptible 1000 Mcf[1]	56,781.9	59,463.7	46,514.7	48,719.7	39,649.8	42,060.9	524,562.7
Total 1000 Mcf	56,781.9	59,463.7	46,514.7	48,719.7	39,649.8	42,060.9	524,562.7
Total Heating Val, Billion Btu	59,803.2	62,584.9	48,927.1	51,181.9	41,532.0	44,133.2	552,259.7
Avg. Cost, ¢ per Million Btu	518.4	517.7	517.4	524.8	529.5	529.5	502.5
Total Est. Gas Bill, $1000	310,028.7	324,004.0	253,164.0	268,617.6	219,894.9	233,670.2	2,775,338.7
Total							
Qnty Purchased: Firm 1000 Mcf	209,108.6	214,219.3	172,186.4	157,278.1	130,945.4	126,076.1	1,934,167.9
Interruptible 1000 Mcf[1]	117,569.6	124,579.7	102,568.6	100,481.2	83,830.9	76,386.4	1,092,554.0
Total 1000 Mcf	326,678.2	338,798.9	274,755.1	257,759.3	214,776.3	202,462.5	3,026,721.9
Total Heating Val, Billion Btu	339,025.7	351,571.7	284,596.7	266,513.5	221,761.6	208,660.8	3,134,012.8
Avg. Cost, ¢ per Million Btu	355.9	355.7	358.5	360.4	351.5	355.4	340.6
Total Est. Gas Bill, $1000	1,206,725.0	1,250,570.7	1,020,301.0	960,643.8	779,491.2	741,580.2	10,674,924.8

[1] Includes Off-Peak Gas.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 40. Basic Gas Statistics for the Past Twelve Months at Peaking Units for Plants of 25-Megawatt Capacity or Larger, by Census Region

Census Region	January 1982	February 1982	March 1982	April 1982	May 1982	June 1982
New England						
Qnty Purchased: Firm 1000 Mcf	-	-	-	-	-	-
Interruptible 1000 Mcf[1]	-	-	-	162.0	357.8	353.5
Total 1000 Mcf	-	-	-	162.0	357.8	353.5
Total Heating Val, Billion Btu	-	-	-	162.0	357.8	353.5
Avg. Cost, ¢ per Million Btu	-	-	-	411.6	423.0	419.2
Total Est. Gas Bill, $1000	-	-	-	666.8	1,513.5	1,481.9
Middle Atlantic						
Qnty Purchased: Firm 1000 Mcf	27.0	12.6	51.6	31.4	145.3	46.9
Interruptible 1000 Mcf[1]	231.9	398.0	1,275.3	937.4	519.9	603.9
Total 1000 Mcf	258.8	410.6	1,326.9	968.8	665.2	650.8
Total Heating Val, Billion Btu	262.9	415.7	1,362.0	995.7	683.7	670.2
Avg. Cost, ¢ per Million Btu	404.9	408.8	431.2	449.9	404.0	404.4
Total Est. Gas Bill, $1000	1,064.7	1,699.3	5,873.1	4,479.6	2,762.1	2,710.1
East North Central						
Qnty Purchased: Firm 1000 Mcf	1,091.4	704.8	174.4	992.3	819.7	719.8
Interruptible 1000 Mcf[1]	278.5	223.9	103.8	138.5	70.1	58.8
Total 1000 Mcf	1,369.9	928.7	278.2	1,130.8	889.8	778.5
Total Heating Val, Billion Btu	1,395.2	942.9	281.6	1,156.0	910.8	799.0
Avg. Cost, ¢ per Million Btu	434.4	407.5	414.2	452.8	453.9	463.9
Total Est. Gas Bill, $1000	6,061.2	3,842.7	1,166.6	5,233.9	4,134.3	3,706.2
West North Central						
Qnty Purchased: Firm 1000 Mcf	-	.1	1.5	4.1	5.3	2.9
Interruptible 1000 Mcf[1]	81.1	67.5	19.0	26.3	55.3	116.7
Total 1000 Mcf	81.1	67.6	20.5	30.4	60.6	119.6
Total Heating Val, Billion Btu	83.5	69.3	20.2	29.7	58.1	115.7
Avg. Cost, ¢ per Million Btu	293.5	284.3	294.2	296.6	243.6	235.0
Total Est. Gas Bill, $1000	245.0	197.0	59.4	88.2	141.6	271.8
South Atlantic						
Qnty Purchased: Firm 1000 Mcf	133.0	6.0	41.0	257.0	108.0	29.0
Interruptible 1000 Mcf[1]	369.9	229.5	138.8	140.1	226.8	238.5
Total 1000 Mcf	502.9	235.5	179.8	397.1	334.8	267.5
Total Heating Val, Billion Btu	513.5	242.2	183.6	400.9	341.7	275.0
Avg. Cost, ¢ per Million Btu	261.7	325.3	333.6	221.1	295.0	306.4
Total Est. Gas Bill, $1000	1,343.8	787.8	612.4	886.4	1,008.0	842.5
East South Central						
Qnty Purchased: Firm 1000 Mcf	328.9	283.0	318.0	306.7	305.6	288.2
Interruptible 1000 Mcf[1]	-	-	-	8.0	3.8	1.4
Total 1000 Mcf	328.9	283.0	318.0	314.7	309.4	289.6
Total Heating Val, Billion Btu	339.1	292.1	330.4	326.9	323.2	300.0
Avg. Cost, ¢ per Million Btu	67.3	68.5	66.0	76.5	660.0	650.5
Total Est. Gas Bill, $1000	228.2	200.1	218.1	250.0	2,133.2	1,951.5
West South Central						
Qnty Purchased: Firm 1000 Mcf	4,906.0	2,010.1	2,766.6	7,814.8	5,504.9	6,571.1
Interruptible 1000 Mcf[1]	294.4	57.7	4.2	.6	120.6	275.2
Total 1000 Mcf	5,200.4	2,067.9	2,770.9	7,815.3	5,625.5	6,846.3
Total Heating Val, Billion Btu	5,336.2	2,099.0	2,856.3	8,175.7	5,811.4	7,101.7
Avg. Cost, ¢ per Million Btu	204.7	232.8	314.7	273.5	169.5	201.4
Total Est. Gas Bill, $1000	10,921.4	4,885.9	8,990.1	22,359.1	9,847.9	14,299.7
Mountain						
Qnty Purchased: Firm 1000 Mcf	117.1	63.7	93.5	278.5	455.9	595.6
Interruptible 1000 Mcf[1]	155.7	93.4	173.3	113.7	54.0	17.3
Total 1000 Mcf	272.8	157.1	266.8	392.2	510.0	612.9
Total Heating Val, Billion Btu	285.5	165.2	278.5	416.8	545.1	655.0
Avg. Cost, ¢ per Million Btu	322.2	324.3	319.3	358.0	372.4	369.6
Total Est. Gas Bill, $1000	919.6	535.8	889.0	1,492.4	2,030.2	2,421.1
Pacific						
Qnty Purchased: Firm 1000 Mcf	-	-	-	-	-	-
Interruptible 1000 Mcf[1]	935.7	601.0	598.9	523.5	513.6	537.3
Total 1000 Mcf	935.7	601.0	598.9	523.5	513.6	537.3
Total Heating Val, Billion Btu	987.8	633.6	630.4	551.0	541.0	564.8
Avg. Cost, ¢ per Million Btu	434.0	437.8	427.0	432.9	507.9	518.4
Total Est. Gas Bill, $1000	4,293.2	2,774.0	2,691.6	2,385.0	2,747.8	2,928.0
Total						
Qnty Purchased: Firm 1000 Mcf	6,603.4	3,080.4	3,446.6	9,684.8	7,344.8	8,253.5
Interruptible 1000 Mcf[1]	2,347.2	1,671.1	2,313.4	2,050.0	1,921.9	2,202.5
Total 1000 Mcf	8,950.6	4,751.4	5,759.9	11,734.8	9,266.7	10,456.0
Total Heating Val, Billion Btu	9,203.7	4,859.9	5,943.0	12,214.7	9,573.0	10,834.9
Avg. Cost, ¢ per Million Btu	272.5	307.1	344.9	309.8	274.9	282.5
Total Est. Gas Bill, $1000	25,077.0	14,922.5	20,500.2	37,841.4	26,318.4	30,612.8

[1] Includes Off-Peak Gas.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 40. Basic Gas Statistics for the Past Twelve Months at Peaking Units for Plants of 25-Megawatt Capacity or Larger, by Census Region—Continued

Census Region	July 1982	August 1982	September 1982	October 1982	November 1982	December 1982	12 Month Total
New England							
Qnty Purchased: Firm 1000 Mcf	-	-	-	-	-	-	-
Interruptible 1000 Mcf[1]	389.6	327.5	41.4	165.6	422.3	142.3	2,362.0
Total 1000 Mcf	389.6	327.5	41.4	165.6	422.3	142.3	2,362.0
Total Heating Val, Billion Btu	389.6	335.7	42.4	169.7	432.9	145.9	2,389.5
Avg. Cost, ¢ per Million Btu	399.3	441.8	442.0	442.0	442.0	442.9	426.8
Total Est. Gas Bill, $1000	1,555.8	1,483.1	187.6	750.3	1,913.2	646.0	10,198.1
Middle Atlantic							
Qnty Purchased: Firm 1000 Mcf	265.4	395.1	72.3	79.1	23.0	40.5	1,190.1
Interruptible 1000 Mcf[1]	3,558.0	2,179.9	1,302.9	1,361.5	1,583.7	1,218.7	15,171.2
Total 1000 Mcf	3,823.5	2,575.0	1,375.3	1,440.6	1,606.6	1,259.1	16,361.3
Total Heating Val, Billion Btu	3,938.6	2,653.4	1,416.9	1,484.5	1,660.7	1,298.2	16,842.6
Avg. Cost, ¢ per Million Btu	431.1	451.4	434.8	447.9	463.7	483.5	441.3
Total Est. Gas Bill, $1000	16,979.6	11,978.7	6,161.4	6,648.5	7,701.1	6,276.5	74,334.5
East North Central							
Qnty Purchased: Firm 1000 Mcf	204.6	146.7	192.6	41.7	46.6	20.8	5,155.4
Interruptible 1000 Mcf[1]	137.9	105.6	92.0	86.1	45.1	66.4	1,406.8
Total 1000 Mcf	342.5	252.3	284.6	127.8	91.7	87.2	6,562.1
Total Heating Val, Billion Btu	348.3	257.3	288.7	129.7	92.9	88.4	6,690.8
Avg. Cost, ¢ per Million Btu	431.8	437.5	413.6	399.4	452.2	451.3	438.0
Total Est. Gas Bill, $1000	1,503.8	1,125.6	1,194.1	518.2	420.1	398.8	29,305.4
West North Central							
Qnty Purchased: Firm 1000 Mcf	4.5	25.1	8.6	6.1	11.3	1.9	71.5
Interruptible 1000 Mcf[1]	319.6	278.2	96.9	174.2	37.6	49.8	1,322.1
Total 1000 Mcf	324.0	303.3	105.5	180.4	49.0	51.7	1,393.6
Total Heating Val, Billion Btu	316.0	295.0	104.8	174.6	47.6	49.6	1,364.2
Avg. Cost, ¢ per Million Btu	250.1	256.9	331.2	243.0	290.8	281.2	264.0
Total Est. Gas Bill, $1000	790.4	758.0	347.1	424.4	138.4	139.6	3,600.9
South Atlantic							
Qnty Purchased: Firm 1000 Mcf	157.0	35.0	71.0	52.0	49.0	54.5	992.5
Interruptible 1000 Mcf[1]	908.4	423.6	291.4	283.6	381.5	318.1	3,950.1
Total 1000 Mcf	1,065.4	458.6	362.4	335.6	430.5	372.6	4,942.6
Total Heating Val, Billion Btu	1,096.4	472.3	373.4	345.4	442.4	381.9	5,068.7
Avg. Cost, ¢ per Million Btu	289.6	329.5	300.1	341.8	357.2	364.4	305.5
Total Est. Gas Bill, $1000	3,174.8	1,556.0	1,120.4	1,180.5	1,580.1	1,391.9	15,484.6
East South Central							
Qnty Purchased: Firm 1000 Mcf	300.6	289.5	266.6	311.0	309.8	326.3	3,634.2
Interruptible 1000 Mcf[1]	.2	.2	2.1	4.5	5.2	-	25.3
Total 1000 Mcf	300.8	289.7	268.7	315.5	315.0	326.3	3,659.5
Total Heating Val, Billion Btu	312.2	302.7	280.0	328.1	326.6	333.2	3,794.3
Avg. Cost, ¢ per Million Btu	667.9	727.9	986.3	122.3	128.8	124.3	349.6
Total Est. Gas Bill, $1000	2,085.1	2,203.2	2,761.3	401.1	420.7	414.1	13,266.6
West South Central							
Qnty Purchased: Firm 1000 Mcf	8,331.2	8,388.5	6,841.1	4,228.5	1,099.7	1,570.3	60,032.9
Interruptible 1000 Mcf[1]	262.8	280.2	287.0	237.5	339.2	290.3	2,449.6
Total 1000 Mcf	8,594.0	8,668.6	7,128.1	4,466.0	1,438.9	1,860.6	62,482.6
Total Heating Val, Billion Btu	8,889.5	8,995.5	7,394.5	4,614.3	1,461.6	1,890.8	64,626.7
Avg. Cost, ¢ per Million Btu	258.3	262.0	231.0	204.6	359.2	266.8	239.3
Total Est. Gas Bill, $1000	22,959.2	23,567.2	17,079.8	9,440.0	5,250.8	5,045.5	154,646.5
Mountain							
Qnty Purchased: Firm 1000 Mcf	1,327.8	1,387.5	745.9	203.5	33.5	286.6	5,589.0
Interruptible 1000 Mcf[1]	199.0	129.3	34.6	102.4	86.9	109.6	1,269.3
Total 1000 Mcf	1,526.8	1,516.8	780.5	305.9	120.4	396.2	6,858.4
Total Heating Val, Billion Btu	1,610.2	1,589.1	818.3	321.9	124.9	416.6	7,227.2
Avg. Cost, ¢ per Million Btu	365.2	389.5	389.4	393.0	396.2	401.7	373.3
Total Est. Gas Bill, $1000	5,881.2	6,190.2	3,186.6	1,265.1	494.9	1,673.3	26,979.3
Pacific							
Qnty Purchased: Firm 1000 Mcf	-	-	-	-	-	-	-
Interruptible 1000 Mcf[1]	596.0	547.0	488.3	535.3	470.9	507.6	6,855.0
Total 1000 Mcf	596.0	547.0	488.3	535.3	470.9	507.6	6,855.0
Total Heating Val, Billion Btu	621.3	568.5	506.5	553.4	488.2	527.0	7,173.3
Avg. Cost, ¢ per Million Btu	517.8	509.8	516.6	531.0	538.4	537.9	487.3
Total Est. Gas Bill, $1000	3,216.9	2,898.4	2,616.2	2,938.3	2,628.6	2,834.2	34,952.1
Total							
Qnty Purchased: Firm 1000 Mcf	10,591.1	10,667.5	8,198.1	4,922.0	1,572.9	2,300.8	78,665.7
Interruptible 1000 Mcf[1]	6,371.5	4,271.4	2,636.6	2,950.7	3,372.4	2,702.8	34,811.4
Total 1000 Mcf	16,962.6	14,938.9	10,834.8	7,872.7	4,945.3	5,003.6	111,477.1
Total Heating Val, Billion Btu	17,522.1	15,469.5	11,225.5	8,121.8	5,077.8	5,131.5	115,177.1
Avg. Cost, ¢ per Million Btu	331.8	334.6	308.7	290.2	404.7	366.8	315.0
Total Est. Gas Bill, $1000	58,146.9	51,760.2	34,654.4	23,566.4	20,547.8	18,819.9	362,768.0

[1] Includes Off-Peak Gas.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 41. Primary Energy Purchase Data for All Reporting Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	Total Btu (Billions)				% of Total Btu			Avg. Delivered Cost, ¢ per 10^6 Btu		
	Total	Coal	Oil	Gas	Coal	Oil	Gas	Coal	Oil	Gas
New England	[1] **469,626.9**	**105,593.8**	**345,458.2**	**17,806.0**	[1] **22.5**	[1] **73.6**	[1] **3.8**	**235.4**	**443.0**	**402.6**
Connecticut	109,653.9	-	109,653.9	-	-	100.0	-	-	474.7	-
Maine	19,301.3	-	19,301.3	-	-	100.0	-	-	486.2	-
Massachusetts	290,425.3	81,270.8	192,279.4	16,875.1	28.0	66.2	5.8	249.1	422.6	402.3
New Hampshire	41,261.8	23,308.6	17,953.3	-	56.5	43.5	-	188.4	414.1	-
Rhode Island	6,979.9	-	6,156.4	823.5	-	88.2	11.8	-	460.1	396.2
Vermont	[1] 2,004.7	1,014.5	114.0	107.3	[1] 50.6	[1] 5.7	[1] 5.4	210.5	762.5	499.6
Middle Atlantic	[1] **1,897,851.9**	**1,208,741.1**	**464,201.8**	**222,475.4**	[1] **63.7**	[1] **24.5**	[1] **11.7**	**169.3**	**485.2**	**402.6**
New Jersey	194,066.3	76,000.4	52,681.6	65,384.3	39.2	27.1	33.7	214.0	532.9	430.2
New York	668,401.0	163,518.6	349,043.4	155,839.0	24.5	52.2	23.3	182.8	469.6	390.9
Pennsylvania	[1] 1,035,384.6	969,222.1	62,476.7	1,252.2	[1] 93.6	[1] 6.0	[1] .1	163.5	532.1	409.5
East North Central	[1] **3,265,896.6**	**3,170,895.8**	**72,377.9**	**21,124.4**	[1] **97.1**	[1] **2.2**	[1] **.6**	**178.4**	**677.9**	**422.2**
Illinois	[1] 707,253.9	644,708.2	53,083.9	9,241.9	[1] 91.2	[1] 7.5	[1] 1.3	198.3	708.4	458.4
Indiana	704,320.2	698,922.1	2,826.3	2,571.8	99.2	.4	.4	160.4	687.8	355.0
Michigan	522,424.6	506,744.8	11,854.2	3,825.7	97.0	2.3	.7	193.8	532.5	384.5
Ohio	1,051,319.2	1,046,778.1	3,512.0	1,029.1	99.6	.3	.1	172.3	697.9	424.7
Wisconsin	[1] 280,578.7	273,742.6	1,101.5	4,455.9	[1] 97.6	[1] .4	[1] 1.6	171.7	682.5	417.6
West North Central	[1] **1,493,535.1**	**1,417,260.2**	**7,823.2**	**62,361.8**	[1] **94.9**	[1] **.5**	[1] **4.2**	**131.3**	**542.5**	**264.6**
Iowa	197,767.6	195,643.6	368.3	1,755.7	98.9	.2	.9	156.8	622.4	356.9
Kansas	252,744.5	198,371.2	2,185.3	52,188.1	78.5	.9	20.6	134.1	423.1	248.4
Minnesota	[1] 205,315.0	195,982.3	152.8	3,250.9	[1] 95.5	[1] .1	[1] 1.6	129.3	545.8	335.7
Missouri	[1] 518,938.6	510,731.3	3,878.6	4,168.0	[1] 98.4	[1] .7	[1] .8	143.1	556.5	363.9
Nebraska	106,130.4	104,445.8	705.1	979.4	98.4	.7	.9	116.9	665.7	301.9
North Dakota	184,409.1	183,956.5	452.7	-	99.8	.2	-	80.7	717.8	-
South Dakota	28,229.7	28,129.6	80.5	19.6	99.6	.3	.1	114.6	670.9	376.1
South Atlantic	[1] **3,287,143.2**	**2,664,379.2**	**429,427.0**	**191,794.1**	[1] **81.1**	[1] **13.1**	[1] **5.8**	**186.7**	**445.8**	**230.3**
Delaware	74,845.8	48,673.2	21,402.0	4,770.6	65.0	28.6	6.4	214.1	473.6	408.4
District of Columbia	1,488.9	-	1,488.9	-	-	100.0	-	-	592.4	-
Florida	[1] 760,487.5	236,625.5	341,966.7	180,355.7	[1] 31.1	[1] 45.0	[1] 23.7	215.3	432.8	219.3
Georgia	510,980.1	507,886.5	1,495.9	1,597.8	99.4	.3	.3	186.1	668.5	406.2
Maryland	183,758.5	143,608.2	39,193.3	957.0	78.2	21.3	.5	192.0	479.6	410.4
North Carolina	613,367.9	611,414.0	1,924.4	29.5	99.7	.3	*	187.8	706.3	447.5
South Carolina	213,229.5	211,596.0	1,082.8	550.6	99.2	.5	.3	190.8	674.6	393.6
Virginia	192,282.0	169,789.9	19,090.3	3,401.7	88.3	9.9	1.8	192.9	484.6	393.9
West Virginia	[1] 736,703.1	734,786.0	1,782.7	131.2	[1] 99.7	[1] .2	[1] .0	171.4	704.0	415.3
East South Central	**1,633,596.8**	**1,541,539.6**	**5,487.3**	**86,569.8**	**94.4**	**.3**	**5.3**	**179.1**	**633.6**	**317.1**
Alabama	424,858.9	422,323.8	1,025.9	1,509.2	99.4	.2	.4	203.1	711.5	300.3
Kentucky	587,465.7	584,553.4	1,192.6	1,719.6	99.5	.2	.3	155.2	759.5	339.2
Mississippi	177,959.9	92,564.2	2,054.7	83,341.0	52.0	1.2	46.8	242.9	417.2	317.0
Tennessee	443,312.3	442,098.2	1,214.1	-	99.7	.3	-	174.5	810.2	-
West South Central	**3,172,470.1**	**1,155,429.3**	**21,676.5**	**1,995,364.3**	**36.4**	**.7**	**62.9**	**164.5**	**477.0**	**299.0**
Arkansas	161,431.3	126,152.8	1,949.4	33,329.1	78.1	1.2	20.6	174.5	577.9	299.2
Louisiana	428,888.7	42,583.4	9,139.3	377,166.0	9.9	2.1	87.9	227.2	437.8	308.7
Oklahoma	439,793.9	182,942.0	483.3	256,368.5	41.6	.1	58.3	164.6	670.7	207.9
Texas	2,142,356.3	803,751.1	10,104.5	1,328,500.7	37.5	.5	62.0	159.6	483.7	313.9
Mountain	[1] **1,490,227.6**	**1,394,204.4**	**3,723.0**	**92,261.1**	[1] **93.6**	[1] **.2**	[1] **6.2**	**101.5**	**593.4**	**350.1**
Arizona	319,792.7	285,758.4	1,164.4	32,869.9	89.4	.4	10.3	118.2	600.1	364.3
Colorado	[1] 241,862.8	236,188.0	390.5	5,245.1	[1] 97.7	[1] .2	[1] 2.2	108.9	586.1	361.5
Idaho	5.6	-	-	5.6	-	-	100.0	-	-	534.1
Montana	44,627.5	44,248.1	1.7	377.7	99.1	*	.8	57.5	542.1	171.0
Nevada	163,051.3	145,615.5	632.8	16,803.0	89.3	.4	10.3	117.5	463.0	391.8
New Mexico	262,249.8	226,018.7	1,325.6	34,905.5	86.2	.5	13.3	78.5	635.5	322.3
Utah	140,472.5	138,354.5	176.4	1,941.6	98.5	.1	1.4	141.2	694.2	243.2
Wyoming	318,165.5	318,021.2	31.7	112.6	100.0	*	*	78.9	721.6	515.6
Pacific	**730,969.4**	**90,128.1**	**81,408.3**	**559,433.0**	**12.3**	**11.1**	**76.5**	**145.7**	**677.0**	**502.3**
California	640,598.3	-	81,317.1	559,281.3	-	12.7	87.3	-	676.9	502.3
Oregon	18,973.7	18,848.1	90.2	35.3	99.3	.5	.2	171.5	722.2	537.5
Washington	71,397.4	71,280.0	1.0	116.4	99.8	*	.2	138.9	778.0	562.0
Total	[1] **17,441,317.7**	**12,748,171.7**	**1,431,583.2**	**3,249,189.9**	[1] **73.1**	[1] **8.2**	[1] **18.6**	**164.7**	**484.9**	**339.7**

[1] Also includes Petroleum Coke, Refuse, Wood Waste, or Coke Breeze.
* = Number less than 0.05 rounded to zero.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 42. Primary Energy Purchase Data for Steam-Electric Plants of 25-Megawatt Capacity or larger, by Census Region and State, 1982

Census Region and State	Total Btu (Billions)				% of Total Btu			Avg. Delivered Cost, ¢ per 10^6 Btu		
	Total	Coal	Oil	Gas	Coal	Oil	Gas	Coal	Oil	Gas
New England	[1] **466,289.2**	**105,593.8**	**344,509.9**	**15,416.5**	[1] **22.6**	[1] **73.9**	[1] **3.3**	**235.4**	**442.3**	**398.8**
Connecticut	109,649.5	-	109,649.5	-	-	100.0	-	-	474.7	-
Maine	19,289.6	-	19,289.6	-	-	100.0	-	-	486.0	-
Massachusetts	287,186.3	81,270.8	191,429.9	14,485.6	28.3	66.7	5.0	249.1	421.3	398.2
New Hampshire	41,238.1	23,308.6	17,929.5	-	56.5	43.5	-	188.4	413.6	-
Rhode Island	6,979.9	-	6,156.4	823.5	-	88.2	11.8	-	460.1	396.2
Vermont	[1] 1,945.7	1,014.5	55.0	107.3	[1] 52.1	[1] 2.8	[1] 5.5	210.5	753.9	499.6
Middle Atlantic	[1] **1,872,046.1**	**1,208,741.1**	**455,238.6**	**205,632.9**	[1] **64.6**	[1] **24.3**	[1] **11.0**	**169.3**	**480.7**	**399.4**
New Jersey	176,464.6	76,000.4	48,711.4	51,752.9	43.1	27.6	29.3	214.0	517.0	424.2
New York	664,829.5	163,518.6	347,515.1	153,795.8	24.6	52.3	23.1	182.8	468.5	391.1
Pennsylvania	[1] 1,030,751.9	969,222.1	59,012.1	84.2	[1] 94.0	[1] 5.7	[1] .0	163.5	522.3	375.1
East North Central	[1] **3,256,274.1**	**3,170,895.8**	**69,446.2**	**14,433.6**	[1] **97.4**	[1] **2.1**	[1] **.4**	**178.4**	**675.0**	**414.9**
Illinois	[1] 702,866.5	644,708.2	52,566.1	5,372.4	[1] 91.7	[1] 7.5	[1] .8	198.3	707.5	449.7
Indiana	702,590.3	698,922.1	1,239.7	2,428.5	99.5	.2	.3	160.4	697.6	356.5
Michigan	520,771.9	506,744.8	11,829.6	2,197.5	97.3	2.3	.4	193.8	532.1	388.2
Ohio	1,050,200.0	1,046,778.1	2,899.1	522.8	99.7	.3	*	172.3	657.8	419.2
Wisconsin	[1] 279,845.4	273,742.6	911.7	3,912.4	[1] 97.8	[1] .3	[1] 1.4	171.7	679.1	417.6
West North Central	[1] **1,491,697.5**	**1,417,260.2**	**7,349.9**	**60,997.6**	[1] **95.0**	[1] **.5**	[1] **4.1**	**131.3**	**531.8**	**264.6**
Iowa	197,658.8	195,643.6	368.3	1,646.9	99.0	.2	.8	156.8	622.4	355.8
Kansas	251,363.4	198,371.2	1,973.3	51,018.9	78.9	.8	20.3	134.1	392.7	248.4
Minnesota	[1] 205,308.3	195,982.3	152.8	3,244.2	[1] 95.5	[1] .1	[1] 1.6	129.3	545.8	335.7
Missouri	[1] 518,687.0	510,731.3	3,703.4	4,091.5	[1] 98.5	[1] .7	[1] .8	143.1	548.2	363.7
Nebraska	106,041.6	104,445.8	619.3	976.4	98.5	.6	.9	116.9	666.1	301.9
North Dakota	184,409.1	183,956.5	452.7	-	99.8	.2	-	80.7	717.8	-
South Dakota	28,229.2	28,129.6	80.0	19.6	99.6	.3	.1	114.6	670.3	376.1
South Atlantic	[1] **3,277,094.1**	**2,664,379.2**	**424,446.5**	**186,725.4**	[1] **81.3**	[1] **13.0**	[1] **5.7**	**186.7**	**443.0**	**228.2**
Delaware	74,845.8	48,673.2	21,402.0	4,770.6	65.0	28.6	6.4	214.1	473.6	408.4
District of Columbia	1,324.4	-	1,324.4	-	-	100.0	-	-	577.9	-
Florida	[1] 753,547.7	236,625.5	338,786.7	176,595.9	[1] 31.4	[1] 45.0	[1] 23.4	215.3	430.7	218.2
Georgia	510,925.3	507,886.5	1,495.9	1,543.0	99.4	.3	.3	186.1	668.5	406.8
Maryland	182,430.5	143,608.2	38,822.2	-	78.7	21.3	-	192.0	477.4	-
North Carolina	612,669.8	611,414.0	1,255.9	-	99.8	.2	-	187.8	699.3	-
South Carolina	212,602.4	211,596.0	679.7	326.6	99.5	.3	.2	190.8	685.1	379.9
Virginia	192,067.8	169,789.9	18,919.8	3,358.1	88.4	9.9	1.7	192.9	482.8	394.2
West Virginia	[1] 736,680.4	734,786.0	1,759.9	131.2	[1] 99.7	[1] .2	[1] .0	171.4	703.4	415.3
East South Central	**1,629,802.5**	**1,541,539.6**	**5,487.3**	**82,775.6**	**94.6**	**.3**	**5.1**	**179.1**	**633.6**	**315.7**
Alabama	424,858.9	422,323.8	1,025.9	1,509.2	99.4	.2	.4	203.1	711.5	300.3
Kentucky	587,439.8	584,553.4	1,192.6	1,693.7	99.5	.2	.3	155.2	759.5	338.9
Mississippi	174,191.5	92,564.2	2,054.7	79,572.6	53.1	1.2	45.7	242.9	417.2	315.5
Tennessee	443,312.3	442,098.2	1,214.1	-	99.7	.3	-	174.5	810.2	-
West South Central	**3,107,313.8**	**1,155,429.3**	**21,146.9**	**1,930,737.6**	**37.2**	**.7**	**62.1**	**164.5**	**481.5**	**301.0**
Arkansas	161,373.5	126,152.8	1,895.2	33,325.6	78.2	1.2	20.7	174.5	576.4	299.2
Louisiana	428,547.1	42,583.4	9,109.8	376,853.9	9.9	2.1	87.9	227.2	437.1	308.8
Oklahoma	436,725.9	182,942.0	483.3	253,300.5	41.9	.1	58.0	164.6	670.7	208.0
Texas	2,080,667.3	803,751.1	9,658.6	1,267,257.5	38.6	.5	60.9	159.6	495.3	317.3
Mountain	[1] **1,482,998.8**	**1,394,204.4**	**3,721.3**	**85,033.9**	[1] **94.0**	[1] **.3**	[1] **5.7**	**101.5**	**593.4**	**348.2**
Arizona	314,343.9	285,758.4	1,164.4	27,421.1	90.9	.4	8.7	118.2	600.1	361.5
Colorado	[1] 241,140.2	236,188.0	390.5	4,522.5	[1] 97.9	[1] .2	[1] 1.9	108.9	586.1	368.6
Idaho	-	-	-	-	-	-	-	-	-	-
Montana	44,622.5	44,248.1	-	374.5	99.2	-	.8	57.5	-	169.0
Nevada	162,142.5	145,615.5	632.8	15,894.2	89.8	.4	9.8	117.5	463.0	391.8
New Mexico	262,111.6	226,018.7	1,325.6	34,767.3	86.2	.5	13.3	78.5	635.5	322.3
Utah	140,472.5	138,354.5	176.4	1,941.6	98.5	.1	1.4	141.2	694.2	243.2
Wyoming	318,165.5	318,021.2	31.7	112.6	100.0	*	*	78.9	721.6	515.6
Pacific	**722,805.5**	**90,128.1**	**80,417.7**	**552,259.7**	**12.5**	**11.1**	**76.4**	**145.7**	**677.0**	**502.5**
California	632,586.2	-	80,326.5	552,259.7	-	12.7	87.3	-	676.9	502.5
Oregon	18,938.3	18,848.1	90.2	-	99.5	.5	-	171.5	722.2	-
Washington	71,281.0	71,280.0	1.0	-	100.0	*	-	138.9	778.0	-
Total	[1] **17,306,321.6**	**12,748,171.7**	**1,411,764.2**	**3,134,012.8**	[1] **73.7**	[1] **8.2**	[1] **18.1**	**164.7**	**481.9**	**340.6**

[1] Also includes Petroleum Coke, Refuse, Wood Waste, or Coke Breeze.
* = Number less than 0.05 rounded to zero.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 43. Primary Energy Purchase Data at Peaking Units for Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	Total Btu (Billions)			% of Total Btu		Avg. Delivered Cost, ¢ per 10^6 Btu	
	Total	Oil	Gas	Oil	Gas	Oil	Gas
New England	**3,337.8**	**948.3**	**2,389.5**	**28.4**	**71.6**	**712.3**	**426.8**
Connecticut	4.3	4.3	-	100.0	-	777.3	-
Maine	11.7	11.7	-	100.0	-	765.3	-
Massachusetts	3,239.0	849.5	2,389.5	26.2	73.8	705.0	426.8
New Hampshire	23.7	23.7	-	100.0	-	790.5	-
Rhode Island	-	-	-	-	-	-	-
Vermont	59.0	59.0	-	100.0	-	770.6	-
Middle Atlantic	**25,805.8**	**8,963.2**	**16,842.6**	**34.7**	**65.3**	**712.8**	**441.3**
New Jersey	17,601.7	3,970.3	13,631.4	22.6	77.4	727.6	453.1
New York	3,571.5	1,528.3	2,043.2	42.8	57.2	708.4	379.8
Pennsylvania	4,632.6	3,464.7	1,168.0	74.8	25.2	697.8	412.0
East North Central	**9,622.5**	**2,931.7**	**6,690.8**	**30.5**	**69.5**	**745.0**	**438.0**
Illinois	4,387.4	517.8	3,869.6	11.8	88.2	793.3	470.5
Indiana	1,729.9	1,586.6	143.3	91.7	8.3	680.0	329.7
Michigan	1,652.7	24.6	1,628.1	1.5	98.5	715.8	379.4
Ohio	1,119.2	612.9	506.3	54.8	45.2	887.8	430.4
Wisconsin	733.3	189.8	543.5	25.9	74.1	698.7	417.7
West North Central	**1,837.6**	**473.4**	**1,364.2**	**25.8**	**74.2**	**708.0**	**264.0**
Iowa	108.8	-	108.8	-	100.0	-	373.1
Kansas	1,381.1	211.9	1,169.2	15.3	84.7	706.4	246.0
Minnesota	6.7	-	6.7	-	100.0	-	332.9
Missouri	251.6	175.1	76.5	69.6	30.4	732.1	373.6
Nebraska	88.8	85.8	3.0	96.6	3.4	662.3	330.2
North Dakota	-	-	-	-	-	-	-
South Dakota	.5	.5	-	100.0	-	777.8	-
South Atlantic	**10,049.1**	**4,980.5**	**5,068.7**	**49.6**	**50.4**	**676.9**	**305.5**
Delaware	-	-	-	-	-	-	-
District of Columbia	164.6	164.6	-	100.0	-	708.5	-
Florida	6,939.7	3,180.0	3,759.8	45.8	54.2	663.8	269.3
Georgia	54.8	-	54.8	-	100.0	-	390.3
Maryland	1,328.0	371.1	957.0	27.9	72.1	710.4	410.4
North Carolina	698.1	668.6	29.5	95.8	4.2	719.2	447.5
South Carolina	627.1	403.1	224.0	64.3	35.7	657.1	413.5
Virginia	214.2	170.5	43.6	79.6	20.4	687.9	366.1
West Virginia	22.7	22.7	-	100.0	-	748.8	-
East South Central	**3,794.3**	**-**	**3,794.3**	**-**	**100.0**	**-**	**349.6**
Alabama	-	-	-	-	-	-	-
Kentucky	25.9	-	25.9	-	100.0	-	355.9
Mississippi	3,768.3	-	3,768.3	-	100.0	-	349.6
Tennessee	-	-	-	-	-	-	-
West South Central	**65,156.4**	**529.7**	**64,626.7**	**.8**	**99.2**	**297.2**	**239.3**
Arkansas	57.7	54.3	3.5	94.0	6.0	629.7	318.3
Louisiana	341.6	29.5	312.1	8.6	91.4	662.1	173.0
Oklahoma	3,068.0	-	3,068.0	-	100.0	-	198.6
Texas	61,689.1	445.9	61,243.2	.7	99.3	232.6	241.7
Mountain	**7,228.8**	**1.7**	**7,227.2**	*****	**100.0**	**542.1**	**373.3**
Arizona	5,448.8	-	5,448.8	-	100.0	-	378.3
Colorado	722.6	-	722.6	-	100.0	-	316.6
Idaho	5.6	-	5.6	-	100.0	-	534.1
Montana	4.9	1.7	3.3	33.7	66.3	542.1	401.8
Nevada	908.8	-	908.8	-	100.0	-	393.0
New Mexico	138.2	-	138.2	-	100.0	-	335.9
Utah	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-
Pacific	**8,163.9**	**990.6**	**7,173.3**	**12.1**	**87.9**	**674.0**	**487.3**
California	8,012.2	990.6	7,021.6	12.4	87.6	674.0	485.8
Oregon	35.3	-	35.3	-	100.0	-	537.5
Washington	116.4	-	116.4	-	100.0	-	562.0
Total	**134,996.1**	**19,819.0**	**115,177.1**	**14.7**	**85.3**	**695.3**	**315.0**

* = Number less than 0.05 rounded to zero.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Cost

The average cost of all coal receipts at electric utilities in the United States was $34.90 per ton, which was a $2.59 per ton increase from 1981. Contract coal purchases increased $3.27 per ton to a level of $34.61 per ton, while spot coal costs decreased $1.16 from 1981 and averaged $37.64 per ton.

The average cost of heavy oil decreased $3.20 per barrel to a level of $29.81 per barrel as compared to costs in 1981. The average cost of light oil decreased $1.40 per barrel to a level of $40.32 per barrel.

The average cost of gas received by electric utilities during 1982 increased $0.61 per thousand cubic feet (Mcf) to a level of $3.52 per Mcf. Firm and interruptible gas receipts averaged $2.98 per Mcf and $4.48 per Mcf, respectively.

The following tables compare fossil-fuel average costs in 1982 and 1981.

Cost (dollars)	1982	1981	Quantitative Difference	Change (percentage)
Total Coal (per short ton)	**34.90**	**32.31**	**2.59**	**8.0**
Contract	34.61	31.34	3.27	10.4
Spot	37.64	38.80	-1.16	-3.0
Total Oil (per barrel)	**30.29**	**33.47**	**-3.18**	**-9.5**
Heavy Oil	29.81	33.01	-3.20	-9.7
Light Oil	40.32	41.72	-1.40	-3.4
Total Gas (per Mcf)	**3.52**	**2.91**	**0.61**	**21.0**
Firm	2.98	2.45	0.53	21.6
Interruptible[1]	4.48	3.64	0.84	23.1

[1]Includes small quantities of Off-Peak Gas.
Note: Totals may not equal sum of components because of independent rounding.
Source: •Federal Power Commission Form 423.

Table 44. Average Cost of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	Average Cost by Type of Purchase						Average Cost by Type of Mining Method					
	Contract Purchases			Spot Purchases			Strip and Auger			Underground		
	Quantity 1000 tons	¢ per 10^6 Btu	$ per ton	Quantity 1000 tons	¢ per 10^6 Btu	$ per ton	Quantity 1000 tons	¢ per 10^6 Btu	$ per ton	Quantity 1000 tons	¢ per 10^6 Btu	$ per ton
New England	**3,162.8**	**232.1**	**61.51**	**827.8**	**247.9**	**65.19**	**992.7**	**236.8**	**62.03**	**2,997.9**	**234.9**	**62.36**
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	2,317.7	248.5	65.38	771.3	251.0	66.06	953.1	237.9	62.36	2,135.9	254.1	66.97
New Hampshire	845.1	188.3	50.92	16.9	192.3	51.94	-	-	-	862.0	188.4	50.94
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	39.6	210.5	53.94	39.6	210.5	53.94	-	-	-
Middle Atlantic	**35,510.5**	**173.3**	**42.34**	**13,880.4**	**159.1**	**39.08**	**25,398.2**	**168.4**	**41.08**	**23,992.6**	**170.2**	**41.79**
New Jersey	2,210.4	215.0	56.67	668.2	210.5	55.89	1,968.7	207.4	54.46	909.9	228.0	60.88
New York	3,739.0	187.9	46.62	2,842.9	176.1	43.83	5,657.1	182.0	44.78	924.7	187.5	49.28
Pennsylvania	29,561.0	168.0	40.73	10,369.4	150.7	36.70	17,772.4	159.3	38.42	22,158.0	166.8	40.69
East North Central	**126,058.4**	**181.9**	**39.98**	**17,074.8**	**153.8**	**36.07**	**87,910.1**	**174.2**	**37.58**	**55,223.1**	**184.6**	**42.58**
Illinois	28,823.3	201.3	41.79	2,084.9	159.7	35.51	17,078.6	230.5	46.82	13,829.6	160.8	34.64
Indiana	30,322.1	162.2	35.28	1,774.5	129.3	28.66	22,100.9	141.0	30.71	9,995.7	203.2	44.23
Michigan	19,329.9	193.9	46.17	1,867.5	193.3	48.10	10,672.9	196.3	44.89	10,524.5	191.6	47.81
Ohio	34,682.7	179.7	41.18	10,620.3	148.9	35.36	26,490.2	160.2	36.21	18,812.8	188.4	44.90
Wisconsin	12,900.4	172.5	34.44	727.5	159.0	35.38	11,567.4	171.6	33.51	2,060.4	172.3	40.04
West North Central	**75,790.1**	**130.8**	**23.39**	**3,002.6**	**141.1**	**29.24**	**73,589.5**	**127.2**	**22.46**	**5,203.2**	**176.6**	**39.92**
Iowa	10,602.0	156.7	28.59	103.3	171.5	36.81	10,493.4	154.1	28.10	211.8	282.3	56.67
Kansas	10,646.7	134.4	23.77	532.1	128.6	24.44	10,795.5	130.9	23.00	383.2	205.5	46.49
Minnesota	11,066.6	128.7	22.63	60.1	209.6	51.11	10,788.0	126.7	22.06	338.8	191.9	45.70
Missouri	22,094.7	144.1	30.89	1,773.1	130.4	27.36	19,832.0	138.4	29.27	4,035.8	165.1	37.32
Nebraska	5,316.9	110.2	19.32	534.0	172.8	36.31	5,617.4	111.3	19.64	233.6	220.0	50.64
North Dakota	13,846.0	80.7	10.73	-	-	-	13,846.0	80.7	10.73	-	-	-
South Dakota	2,217.2	114.6	14.53	-	-	-	2,217.2	114.6	14.53	-	-	-
South Atlantic	**95,935.4**	**187.4**	**45.70**	**13,111.9**	**181.2**	**44.93**	**48,085.9**	**185.3**	**44.89**	**60,961.4**	**187.7**	**46.17**
Delaware	1,353.6	219.5	55.38	576.6	201.6	50.76	1,214.2	199.8	49.98	716.0	237.9	60.82
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Florida	9,243.9	216.4	51.82	606.7	199.6	50.22	4,498.1	199.1	47.35	5,352.5	228.7	55.40
Georgia	20,119.6	185.8	44.47	1,049.6	191.5	47.94	13,087.1	176.6	41.66	8,082.0	200.8	49.47
Maryland	4,051.5	193.6	48.13	1,734.0	188.4	46.59	4,660.2	190.7	47.05	1,125.3	197.3	50.19
North Carolina	22,848.6	190.7	46.83	2,068.7	155.7	37.92	7,908.5	185.4	45.62	17,008.8	189.0	46.31
South Carolina	6,851.1	194.3	48.40	1,693.6	176.1	42.60	3,777.9	187.1	45.57	4,766.8	193.7	48.59
Virginia	2,850.5	193.8	47.46	3,948.0	192.2	48.68	2,664.7	194.9	49.09	4,133.8	191.5	47.56
West Virginia	28,616.6	172.0	42.06	1,434.7	159.3	38.70	10,275.2	182.7	44.44	19,776.1	165.5	40.58
East South Central	**60,070.7**	**182.9**	**42.91**	**5,676.2**	**138.8**	**32.35**	**35,241.1**	**167.0**	**38.69**	**30,505.8**	**192.7**	**45.81**
Alabama	17,384.1	203.6	48.93	182.6	161.3	38.98	8,742.9	200.2	48.37	8,823.8	206.0	49.29
Kentucky	22,131.1	158.3	36.02	3,504.2	135.4	31.34	17,329.1	147.3	33.21	8,306.2	171.0	39.91
Mississippi	3,046.8	261.3	62.97	782.0	172.3	42.18	1,927.5	201.8	49.56	1,901.3	286.0	68.01
Tennessee	17,508.7	178.0	42.14	1,207.3	121.8	27.89	7,241.5	161.4	37.24	11,474.5	182.5	43.73
West South Central	**71,888.0**	**165.6**	**26.01**	**2,426.9**	**117.2**	**12.95**	**74,315.0**	**164.5**	**25.58**	-	-	-
Arkansas	7,401.1	174.5	29.74	-	-	-	7,401.1	174.5	29.74	-	-	-
Louisiana	2,547.8	227.2	37.98	-	-	-	2,547.8	227.2	37.98	-	-	-
Oklahoma	10,723.3	164.6	28.08	-	-	-	10,723.3	164.6	28.08	-	-	-
Texas	51,215.9	161.1	24.44	2,426.9	117.2	12.95	53,642.8	159.6	23.92	-	-	-
Mountain	**69,800.1**	**99.5**	**19.32**	**1,675.9**	**172.5**	**39.85**	**62,654.0**	**92.8**	**17.66**	**8,821.9**	**153.1**	**35.02**
Arizona	13,497.0	118.1	24.93	55.0	146.2	26.04	13,453.0	117.4	24.74	99.0	229.0	51.68
Colorado	11,829.4	108.3	21.21	204.1	141.2	30.96	11,105.9	104.8	20.41	927.6	153.8	32.96
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Montana	2,601.1	57.5	9.79	-	-	-	2,601.1	57.5	9.79	-	-	-
Nevada	5,503.6	103.0	22.56	1,085.8	186.6	43.19	4,788.0	89.2	19.44	1,801.4	188.7	43.27
New Mexico	12,362.5	78.5	14.35	-	-	-	12,362.5	78.5	14.35	-	-	-
Utah	5,663.0	140.7	32.35	331.0	149.3	36.65	-	-	-	5,994.0	141.2	32.58
Wyoming	18,343.5	78.9	13:68	-	-	-	18,343.5	78.9	13.68	-	-	-
Pacific	**5,534.5**	**145.7**	**23.73**	-	-	-	**5,534.5**	**145.7**	**23.73**	-	-	-
California	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	1,134.5	171.5	28.50	-	-	-	1,134.5	171.5	28.50	-	-	-
Washington	4,400.0	138.9	22.50	-	-	-	4,400.0	138.9	22.50	-	-	-
Total	**543,750.4**	**165.1**	**34.61**	**57,676.5**	**161.0**	**37.64**	**413,721.0**	**154.0**	**30.75**	**187,705.9**	**184.3**	**44.06**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 45. Average Cost of Fuel Oil Received at All Reporting Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	Cost of All Fuel Oil by Type of Purchase						Average Cost of Fuel Oil No. 2 and Fuel Oil No. 6					
	Contract Purchases			Spot Purchases			Fuel Oil No. 2		Fuel Oil No. 6		All Oil	
	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	¢ per 10^6 Btu	$ per bbl	¢ per 10^6 Btu	$ per bbl	¢ per 10^6 Btu	$ per bbl
New England	**50,437.5**	**444.6**	**27.87**	**4,666.2**	**425.6**	**26.73**	**717.1**	**41.79**	**441.7**	**27.70**	**443.0**	**27.77**
Connecticut	17,524.1	474.7	29.70	-	-	-	729.5	42.21	474.5	29.69	474.7	29.70
Maine	2,436.0	480.2	30.17	640.8	509.1	31.76	753.6	43.86	482.5	30.30	486.2	30.50
Massachusetts	28,136.7	424.4	26.62	2,514.3	402.3	25.25	707.2	41.28	421.0	26.42	422.6	26.51
New Hampshire	2,058.5	417.5	26.26	794.1	405.4	25.56	695.3	40.26	412.2	25.96	414.1	26.06
Rhode Island	272.0	482.5	29.97	707.5	451.6	28.51	-	-	460.1	28.92	460.1	28.92
Vermont	10.3	770.6	44.30	9.5	753.9	43.52	741.5	43.22	-	-	762.5	43.93
Middle Atlantic	**72,761.0**	**483.7**	**30.08**	**1,928.9**	**540.6**	**33.03**	**703.1**	**40.94**	**477.7**	**29.76**	**485.2**	**30.15**
New Jersey	8,263.4	532.2	32.72	304.0	550.1	34.05	688.8	40.35	516.8	31.96	532.9	32.77
New York	55,061.0	469.5	29.27	925.4	478.0	29.55	703.2	40.28	468.5	29.22	469.6	29.28
Pennsylvania	9,436.6	525.6	32.47	699.5	621.9	37.20	706.1	41.18	501.8	31.24	532.1	32.79
East North Central	**9,411.2**	**700.2**	**43.99**	**2,197.5**	**578.3**	**34.87**	**715.6**	**41.52**	**670.3**	**42.39**	**677.9**	**42.26**
Illinois	8,348.2	708.3	44.80	48.6	726.7	42.01	742.3	43.12	706.2	44.86	708.4	44.78
Indiana	271.1	679.9	39.71	216.2	697.8	40.13	687.8	39.89	-	-	687.8	39.89
Michigan	399.1	507.0	31.22	1,540.4	539.2	32.89	703.7	40.82	493.1	30.52	532.5	32.55
Ohio	205.7	781.9	45.46	390.2	654.6	38.85	744.3	43.08	521.7	33.02	697.9	41.13
Wisconsin	187.1	682.6	39.76	2.0	672.3	38.97	682.5	39.75	-	-	682.5	39.75
West North Central	**618.5**	**547.1**	**33.05**	**676.1**	**538.3**	**32.54**	**685.1**	**39.67**	**405.9**	**25.60**	**542.5**	**32.78**
Iowa	19.0	660.8	38.38	44.4	606.1	35.23	622.4	36.17	-	-	622.4	36.17
Kansas	-	-	-	349.7	423.1	26.44	689.8	39.51	368.4	23.46	423.1	26.44
Minnesota	16.4	465.0	29.42	8.4	716.9	41.61	721.0	41.79	465.3	29.44	545.8	33.56
Missouri	548.3	535.5	32.43	95.2	681.6	39.92	696.0	40.27	435.6	27.24	556.5	33.54
Nebraska	-	-	-	121.6	665.7	38.59	665.7	38.59	-	-	665.7	38.59
North Dakota	34.8	719.3	41.58	42.8	716.6	42.14	717.8	41.89	-	-	717.8	41.89
South Dakota	-	-	-	13.9	670.9	38.74	670.9	38.74	-	-	670.9	38.74
South Atlantic	**65,103.5**	**447.1**	**28.14**	**3,137.7**	**417.5**	**26.24**	**708.1**	**41.10**	**435.8**	**27.51**	**445.8**	**28.05**
Delaware	3,247.8	471.4	29.78	141.6	524.5	32.82	707.3	41.22	465.1	29.46	473.6	29.90
District of Columbia	248.2	592.4	35.54	-	-	-	704.9	40.98	-	-	592.4	35.54
Florida	51,360.3	434.2	27.43	2,783.4	407.9	25.67	726.8	41.71	430.2	27.19	432.8	27.34
Georgia	196.5	726.0	42.08	58.5	485.1	29.62	727.1	42.11	374.4	23.48	668.5	39.22
Maryland	6,164.1	480.7	29.95	125.7	423.8	26.83	700.9	40.59	457.5	28.73	479.6	29.88
North Carolina	332.0	706.3	40.94	-	-	-	706.3	40.94	-	-	706.3	40.94
South Carolina	185.6	674.6	39.35	-	-	-	687.0	39.94	414.9	26.05	674.6	39.35
Virginia	3,094.0	484.6	29.89	1.0	443.9	26.10	694.6	40.75	466.8	28.92	484.6	29.89
West Virginia	275.0	705.7	41.60	27.5	686.6	40.43	703.4	41.48	-	-	704.0	41.49
East South Central	**787.7**	**623.0**	**37.35**	**130.7**	**698.7**	**40.89**	**756.9**	**43.93**	**381.5**	**24.25**	**633.6**	**37.85**
Alabama	120.7	708.3	41.06	56.0	718.3	41.83	711.5	41.30	-	-	711.5	41.30
Kentucky	135.2	799.9	46.13	70.2	683.3	40.18	759.5	44.10	-	-	759.5	44.10
Mississippi	323.2	413.6	25.96	4.5	697.0	40.48	672.9	38.43	381.5	24.25	417.2	26.16
Tennessee	208.6	810.2	47.15	-	-	-	810.2	47.15	-	-	810.2	47.15
West South Central	**1,574.0**	**543.9**	**33.21**	**1,973.1**	**423.7**	**25.91**	**570.9**	**33.46**	**375.5**	**23.68**	**477.0**	**29.15**
Arkansas	304.5	575.7	34.55	20.4	609.7	36.65	674.1	39.40	398.2	25.15	577.9	34.68
Louisiana	760.5	504.5	31.26	696.1	366.8	23.32	630.7	37.82	390.7	24.79	437.8	27.47
Oklahoma	-	-	-	83.4	670.7	38.88	670.7	38.88	-	-	670.7	38.88
Texas	509.0	585.6	35.32	1,173.2	439.3	26.34	495.9	28.83	320.0	19.77	483.7	29.06
Mountain	**229.5**	**635.6**	**37.27**	**392.7**	**569.5**	**34.47**	**682.9**	**39.62**	**476.6**	**29.83**	**593.4**	**35.50**
Arizona	-	-	-	191.5	600.1	36.49	730.8	43.02	521.0	32.32	600.1	36.49
Colorado	3.2	653.3	37.59	64.3	582.7	33.70	586.1	33.89	-	-	586.1	33.89
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Montana	.3	542.1	30.05	-	-	-	542.1	30.05	-	-	542.1	30.05
Nevada	-	-	-	101.5	463.0	28.85	727.8	41.48	416.9	26.41	463.0	28.85
New Mexico	226.0	635.5	37.27	-	-	-	698.5	40.13	-	-	635.5	37.27
Utah	-	-	-	30.0	694.2	40.82	694.2	40.82	-	-	694.2	40.82
Wyoming	-	-	-	5.4	721.6	42.32	721.6	42.32	-	-	721.6	42.32
Pacific	**12,832.5**	**678.7**	**42.11**	**297.4**	**598.6**	**35.95**	**675.3**	**37.39**	**677.0**	**42.04**	**677.0**	**41.97**
California	12,832.5	678.7	42.11	281.6	591.9	35.63	671.2	37.03	677.0	42.04	676.9	41.97
Oregon	-	-	-	15.7	722.2	41.56	722.2	41.56	-	-	722.2	41.56
Washington	-	-	-	.2	778.0	46.07	778.0	46.07	-	-	778.0	46.07
Total	**213,755.5**	**485.7**	**30.37**	**15,400.4**	**473.1**	**29.22**	**691.6**	**40.17**	**475.2**	**29.79**	**484.9**	**30.29**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 46. Average Cost of Fuel Oil Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	Cost of Fuel Oil No. 6 by Type of Purchase						Average Cost of Other Products					
	Contract Purchases			Spot Purchases			Fuel Oil No. 2		Fuel Oil No. 4-No. 5		Crude Oil	
	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	¢ per 10^6 Btu	$ per bbl	¢ per 10^6 Btu	$ per bbl	¢ per 10^6 Btu	$ per bbl
New England	**50,227.2**	**443.6**	**27.81**	**4,592.4**	**420.9**	**26.46**	**732.3**	**42.51**	**-**	**-**	**-**	**-**
Connecticut	17,507.8	474.5	29.69	-	-	-	729.8	42.22	-	-	-	-
Maine	2,436.0	480.2	30.17	595.8	492.0	30.84	753.1	43.82	-	-	-	-
Massachusetts	27,953.0	422.7	26.53	2,514.3	402.3	25.25	719.2	41.80	-	-	-	-
New Hampshire	2,058.3	417.5	26.26	774.8	398.4	25.17	695.3	40.26	-	-	-	-
Rhode Island	272.0	482.5	29.97	707.5	451.6	28.51	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	753.9	43.52	-	-	-	-
Middle Atlantic	**70,796.5**	**477.8**	**29.76**	**1,339.4**	**474.2**	**29.61**	**711.3**	**41.40**	**565.8**	**34.28**	**-**	**-**
New Jersey	7,648.4	517.3	31.98	219.0	496.4	31.20	727.0	42.31	565.8	34.28	-	-
New York	54,863.0	468.6	29.23	856.4	463.8	28.91	-	-	-	-	-	-
Pennsylvania	8,285.0	502.2	31.26	264.0	489.2	30.58	711.2	41.40	-	-	-	-
East North Central	**8,349.5**	**697.0**	**44.20**	**1,273.8**	**491.4**	**30.52**	**708.9**	**41.08**	**-**	**-**	**-**	**-**
Illinois	7,950.4	706.2	44.86	-	-	-	740.0	43.00	-	-	-	-
Indiana	-	-	-	-	-	-	697.6	40.12	-	-	-	-
Michigan	399.1	507.0	31.22	1,158.3	488.4	30.27	703.6	40.81	-	-	-	-
Ohio	-	-	-	115.5	521.7	33.02	703.7	40.74	-	-	-	-
Wisconsin	-	-	-	-	-	-	679.1	39.56	-	-	-	-
West North Central	**348.7**	**437.0**	**27.34**	**284.8**	**368.4**	**23.46**	**681.9**	**39.54**	**-**	**-**	**-**	**-**
Iowa	-	-	-	-	-	-	622.4	36.17	-	-	-	-
Kansas	-	-	-	284.7	368.4	23.46	667.9	38.67	-	-	-	-
Minnesota	16.4	465.0	29.42	.1	498.7	31.42	721.0	41.79	-	-	-	-
Missouri	332.3	435.6	27.24	-	-	-	692.1	40.06	-	-	-	-
Nebraska	-	-	-	-	-	-	666.1	38.64	-	-	-	-
North Dakota	-	-	-	-	-	-	717.8	41.89	-	-	-	-
South Dakota	-	-	-	-	-	-	670.3	38.71	-	-	-	-
South Atlantic	**62,260.4**	**437.0**	**27.59**	**2,992.7**	**405.3**	**25.55**	**705.4**	**41.03**	**573.2**	**34.58**	**-**	**-**
Delaware	3,159.3	464.9	29.44	101.6	472.5	30.14	707.3	41.22	-	-	-	-
District of Columbia	-	-	-	-	-	-	693.5	40.29	573.2	34.58	-	-
Florida	50,700.9	431.3	27.27	2,725.8	402.4	25.35	719.4	41.41	-	-	-	-
Georgia	-	-	-	39.6	374.4	23.48	727.1	42.11	-	-	-	-
Maryland	5,551.4	458.3	28.77	125.7	423.8	26.83	699.8	40.51	-	-	-	-
North Carolina	-	-	-	-	-	-	699.3	40.55	-	-	-	-
South Carolina	7.8	414.9	26.05	-	-	-	706.1	41.03	-	-	-	-
Virginia	2,841.0	466.8	28.92	-	-	-	695.5	40.79	-	-	-	-
West Virginia	-	-	-	-	-	-	703.4	41.48	-	-	-	-
East South Central	**283.6**	**381.5**	**24.25**	**-**	**-**	**-**	**756.9**	**43.93**	**-**	**-**	**-**	**-**
Alabama	-	-	-	-	-	-	711.5	41.30	-	-	-	-
Kentucky	-	-	-	-	-	-	759.5	44.10	-	-	-	-
Mississippi	283.6	381.5	24.25	-	-	-	672.9	38.43	-	-	-	-
Tennessee	-	-	-	-	-	-	810.2	47.15	-	-	-	-
West South Central	**563.9**	**422.0**	**26.69**	**1,070.8**	**350.9**	**22.10**	**592.2**	**34.70**	**565.5**	**34.52**	**-**	**-**
Arkansas	101.3	397.2	25.08	6.4	415.3	26.16	676.1	39.44	-	-	-	-
Louisiana	462.6	427.4	27.04	694.8	366.3	23.30	630.2	37.81	-	-	-	-
Oklahoma	-	-	-	-	-	-	670.7	38.88	-	-	-	-
Texas	-	-	-	369.6	320.0	19.77	530.7	30.83	565.5	34.52	-	-
Mountain	**-**	**-**	**-**	**202.0**	**476.6**	**29.83**	**683.1**	**39.63**	**580.5**	**34.68**	**-**	**-**
Arizona	-	-	-	116.9	521.0	32.32	730.8	43.02	-	-	-	-
Colorado	-	-	-	-	-	-	586.1	33.89	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	85.1	416.9	26.41	727.8	41.48	-	-	-	-
New Mexico	-	-	-	-	-	-	698.5	40.13	580.5	34.68	-	-
Utah	-	-	-	-	-	-	694.2	40.82	-	-	-	-
Wyoming	-	-	-	-	-	-	721.6	42.32	-	-	-	-
Pacific	**12,747.5**	**678.7**	**42.16**	**178.4**	**554.5**	**34.13**	**685.0**	**39.91**	**-**	**-**	**-**	**-**
California	12,747.5	678.7	42.16	178.4	554.5	34.13	612.6	36.55	-	-	-	-
Oregon	-	-	-	-	-	-	722.2	41.56	-	-	-	-
Washington	-	-	-	-	-	-	778.0	46.07	-	-	-	-
Total	**205,577.3**	**478.0**	**29.96**	**11,934.2**	**425.7**	**26.73**	**690.6**	**40.17**	**568.9**	**34.55**	**-**	**-**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 47. Average Cost of Fuel Oil Received at Peaking Units for Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	Cost of All Fuel Oil by Type of Purchase						Average Cost of Peaking Oils					
	Contract Purchases			Spot Purchases			Kerosene[1]		Fuel Oil No. 2		Heavy Oil[2]	
	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	¢ per 10^6 Btu	$ per bbl	¢ per 10^6 Btu	$ per bbl	¢ per 10^6 Btu	$ per bbl
New England	**156.7**	**709.6**	**41.40**	**6.0**	**782.4**	**44.71**	**794.0**	**44.85**	**704.8**	**41.21**	-	-
Connecticut	.8	777.3	44.46	-	-	-	845.8	47.46	717.8	41.76	-	-
Maine	-	-	-	2.0	765.3	44.62	-	-	765.3	44.62	-	-
Massachusetts	145.5	705.0	41.17	-	-	-	776.0	43.79	704.0	41.14	-	-
New Hampshire	.2	775.6	43.68	4.0	791.2	44.75	790.5	44.70	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	10.3	770.6	44.30	-	-	-	798.4	45.09	701.6	42.23	-	-
Middle Atlantic	**1,373.9**	**715.2**	**41.39**	**175.8**	**694.0**	**39.99**	**767.5**	**43.37**	**696.0**	**40.55**	-	-
New Jersey	605.4	732.2	41.91	85.0	696.4	41.39	765.6	43.27	687.7	40.30	-	-
New York	198.0	718.7	41.63	69.0	677.5	37.46	820.3	46.17	703.2	40.28	-	-
Pennsylvania	570.5	696.4	40.75	21.8	734.5	42.54	811.3	45.95	697.6	40.81	-	-
East North Central	**477.6**	**746.8**	**43.37**	**27.3**	**713.1**	**41.25**	**825.2**	**46.58**	**737.2**	**42.92**	-	-
Illinois	87.6	795.1	45.47	2.9	738.8	42.62	825.2	46.58	760.9	44.12	-	-
Indiana	271.1	679.9	39.71	.6	739.5	42.55	-	-	680.0	39.71	-	-
Michigan	-	-	-	4.2	715.8	41.49	-	-	715.8	41.49	-	-
Ohio	87.7	924.5	53.53	18.2	710.6	41.11	-	-	887.8	51.39	-	-
Wisconsin	31.2	699.9	40.76	1.4	672.3	38.97	-	-	698.7	40.68	-	-
West North Central	**27.0**	**737.1**	**42.41**	**55.7**	**693.8**	**39.62**	-	-	**708.0**	**40.53**	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	37.3	706.4	40.13	-	-	706.4	40.13	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-
Missouri	27.0	737.1	42.41	3.4	693.4	40.35	-	-	732.1	42.18	-	-
Nebraska	-	-	-	14.9	662.3	38.17	-	-	662.3	38.17	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	.1	777.8	44.10	-	-	777.8	44.10	-	-
South Atlantic	**796.8**	**676.0**	**39.48**	**55.9**	**689.3**	**40.25**	**748.8**	**42.55**	**715.9**	**41.29**	**545.5**	**33.29**
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia	28.3	708.5	41.20	-	-	-	-	-	708.5	41.20	-	-
Florida	486.8	660.9	38.74	55.9	689.3	40.25	-	-	730.4	41.85	545.5	33.29
Georgia	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	64.0	710.4	41.21	-	-	-	-	-	710.4	41.21	-	-
North Carolina	115.4	719.2	41.67	-	-	-	-	-	719.2	41.67	-	-
South Carolina	69.3	657.1	38.23	-	-	-	-	-	657.1	38.23	-	-
Virginia	29.0	687.9	40.45	-	-	-	-	-	687.9	40.45	-	-
West Virginia	4.0	748.8	42.55	-	-	-	748.8	42.55	-	-	-	-
East South Central	-	-	-	-	-	-	-	-	-	-	-	-
Alabama	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
West South Central	**25.6**	**428.8**	**25.32**	**64.7**	**244.7**	**14.31**	-	-	**297.2**	**17.43**	-	-
Arkansas	8.9	629.7	38.45	-	-	-	-	-	629.7	38.45	-	-
Louisiana	3.8	675.5	39.22	1.3	624.3	36.08	-	-	662.1	38.40	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-
Texas	12.9	211.5	12.26	63.4	236.8	13.86	-	-	232.6	13.59	-	-
Mountain	**.3**	**542.1**	**30.05**	-	-	-	-	-	**542.1**	**30.05**	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Montana	.3	542.1	30.05	-	-	-	-	-	542.1	30.05	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Pacific	**77.0**	**694.1**	**35.46**	**103.2**	**660.8**	**38.24**	-	-	**674.0**	**37.05**	-	-
California	77.0	694.1	35.46	103.2	660.8	38.24	-	-	674.0	37.05	-	-
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
Total	**2,934.8**	**706.5**	**40.91**	**488.7**	**628.3**	**36.33**	**774.2**	**43.75**	**693.9**	**40.18**	**545.5**	**33.29**

[1] Includes small quantities of Jet Fuel.
[2] Includes Fuel Oil No. 4, Fuel Oil No. 5, Fuel Oil No. 6, Crude and Topped Crude.
Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 48. Average Cost of Gas Received at All Reporting Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	Receipts and Cost by Type of Purchase											
	Firm Gas			Interruptible Gas			Off-Peak Gas			Total Gas		
	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf
New England	**-**	**-**	**-**	**17,010.3**	**402.6**	**4.21**	**-**	**-**	**-**	**17,010.3**	**402.6**	**4.21**
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	16,095.6	402.3	4.22	-	-	-	16,095.6	402.3	4.22
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	807.4	396.2	4.04	-	-	-	807.4	396.2	4.04
Vermont	-	-	-	107.3	499.6	5.00	-	-	-	107.3	499.6	5.00
Middle Atlantic	**70,456.8**	**375.0**	**3.86**	**123,708.3**	**417.7**	**4.31**	**21,646.0**	**405.9**	**4.19**	**215,811.2**	**402.6**	**4.15**
New Jersey	-	-	-	63,315.0	430.2	4.44	-	-	-	63,315.0	430.2	4.44
New York	70,372.6	375.0	3.86	59,236.0	404.4	4.16	21,646.0	405.9	4.19	151,254.6	390.9	4.03
Pennsylvania	84.2	375.1	3.75	1,157.3	412.0	4.16	-	-	-	1,241.5	409.5	4.13
East North Central	**14,422.4**	**427.0**	**4.22**	**8,361.3**	**412.2**	**3.39**	**4.8**	**284.0**	**2.84**	**22,788.4**	**422.2**	**3.91**
Illinois	7,980.4	464.8	4.75	1,041.9	410.1	4.25	-	-	-	9,022.3	458.4	4.70
Indiana	2,476.1	356.3	3.57	91.3	322.6	3.26	-	-	-	2,567.4	355.0	3.56
Michigan	3,677.8	391.9	3.53	2,102.0	336.3	.82	-	-	-	5,779.8	384.5	2.54
Ohio	286.6	370.3	3.70	723.7	446.8	4.55	4.8	284.0	2.84	1,015.1	424.7	4.31
Wisconsin	1.4	408.1	4.12	4,402.4	417.6	4.23	-	-	-	4,403.8	417.6	4.23
West North Central	**15,831.5**	**250.5**	**2.22**	**48,811.4**	**268.7**	**2.66**	**-**	**-**	**-**	**64,642.9**	**264.6**	**2.55**
Iowa	738.9	368.5	3.75	984.0	348.1	3.55	-	-	-	1,722.9	356.9	3.64
Kansas	14,794.3	240.5	2.11	39,777.1	251.0	2.47	-	-	-	54,571.4	248.4	2.38
Minnesota	231.9	381.9	3.83	3,020.9	332.1	3.32	-	-	-	3,252.8	335.7	3.35
Missouri	-	-	-	4,077.1	363.9	3.72	-	-	-	4,077.1	363.9	3.72
Nebraska	52.1	396.5	3.97	945.8	296.6	2.91	-	-	-	997.9	301.9	2.96
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	14.3	380.3	3.53	6.4	367.5	3.65	-	-	-	20.7	376.1	3.57
South Atlantic	**112,867.9**	**166.8**	**1.67**	**75,798.6**	**321.1**	**3.33**	**100.7**	**493.5**	**5.10**	**188,767.3**	**230.3**	**2.34**
Delaware	516.4	419.7	4.33	4,101.6	407.0	4.21	-	-	-	4,618.0	408.4	4.22
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Florida	112,351.5	165.6	1.66	65,469.0	308.3	3.20	-	-	-	177,820.5	219.3	2.22
Georgia	-	-	-	1,554.4	406.2	4.18	-	-	-	1,554.4	406.2	4.18
Maryland	-	-	-	832.7	400.3	4.10	100.7	493.5	5.10	933.4	410.4	4.21
North Carolina	-	-	-	28.6	447.5	4.62	-	-	-	28.6	447.5	4.62
South Carolina	-	-	-	535.2	393.6	4.05	-	-	-	535.2	393.6	4.05
Virginia	-	-	-	3,146.0	393.9	4.26	-	-	-	3,146.0	393.9	4.26
West Virginia	-	-	-	131.2	415.3	4.15	-	-	-	131.2	415.3	4.15
East South Central	**82,746.5**	**316.6**	**3.24**	**195.9**	**397.0**	**4.20**	**1,595.9**	**335.5**	**3.44**	**84,538.3**	**317.1**	**3.25**
Alabama	1,236.9	292.8	3.30	105.1	390.2	4.32	-	-	-	1,342.0	300.3	3.38
Kentucky	-	-	-	83.8	411.7	4.12	1,595.9	335.5	3.44	1,679.7	339.2	3.47
Mississippi	81,509.6	317.0	3.24	7.0	333.4	3.33	-	-	-	81,516.6	317.0	3.24
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
West South Central	**1,673,639.5**	**289.1**	**3.00**	**250,044.1**	**365.4**	**3.79**	**362.3**	**398.0**	**4.13**	**1,924,045.9**	**299.0**	**3.10**
Arkansas	443.9	315.4	3.20	31,849.8	299.0	3.09	-	-	-	32,293.7	299.2	3.09
Louisiana	294,813.2	292.4	3.06	65,423.6	381.9	3.99	362.3	398.0	4.13	360,599.2	308.7	3.23
Oklahoma	235,970.6	204.2	2.14	9,334.9	303.2	3.10	-	-	-	245,305.5	207.9	2.17
Texas	1,142,411.7	306.0	3.16	143,435.9	376.4	3.91	-	-	-	1,285,847.6	313.9	3.24
Mountain	**40,869.0**	**354.3**	**3.61**	**48,308.0**	**346.7**	**3.63**	**-**	**-**	**-**	**89,177.0**	**350.1**	**3.62**
Arizona	22,019.1	376.8	3.95	9,262.3	334.7	3.54	-	-	-	31,281.4	364.3	3.83
Colorado	733.3	246.4	2.33	4,709.7	379.0	3.66	-	-	-	5,443.0	361.5	3.48
Idaho	-	-	-	5.2	534.1	5.74	-	-	-	5.2	534.1	5.74
Montana	285.0	143.2	1.71	36.9	417.5	4.33	-	-	-	321.9	171.0	2.01
Nevada	6,442.4	372.5	3.97	9,294.4	405.2	4.33	-	-	-	15,736.9	391.8	4.18
New Mexico	11,389.2	307.8	2.89	22,801.4	328.7	3.49	-	-	-	34,190.6	322.3	3.29
Utah	-	-	-	2,065.0	243.2	2.29	-	-	-	2,065.0	243.2	2.29
Wyoming	-	-	-	133.0	515.6	4.37	-	-	-	133.0	515.6	4.37
Pacific	**-**	**-**	**-**	**531,417.6**	**502.3**	**5.29**	**-**	**-**	**-**	**531,417.6**	**502.3**	**5.29**
California	-	-	-	531,269.3	502.3	5.29	-	-	-	531,269.3	502.3	5.29
Oregon	-	-	-	35.7	537.5	5.32	-	-	-	35.7	537.5	5.32
Washington	-	-	-	112.6	562.0	5.81	-	-	-	112.6	562.0	5.81
Total	**2,010,833.6**	**288.5**	**2.98**	**1,103,655.6**	**430.8**	**4.49**	**23,709.7**	**401.4**	**4.14**	**3,138,199.0**	**339.7**	**3.52**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 49. Average Cost of Gas Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	Receipts and Cost by Type of Purchase											
	Firm Gas			Interruptible Gas			Off-Peak Gas			Total Gas		
	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf
New England	-	-	-	**14,648.3**	**398.8**	**4.20**	-	-	-	**14,648.3**	**398.8**	**4.20**
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	13,733.6	398.2	4.20	-	-	-	13,733.6	398.2	4.20
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	807.4	396.2	4.04	-	-	-	807.4	396.2	4.04
Vermont	-	-	-	107.3	499.6	5.00	-	-	-	107.3	499.6	5.00
Middle Atlantic	**69,266.7**	**375.1**	**3.87**	**109,234.2**	**413.5**	**4.26**	**20,949.0**	**406.2**	**4.19**	**199,449.9**	**399.4**	**4.12**
New Jersey	-	-	-	50,093.8	424.2	4.38	-	-	-	50,093.8	424.2	4.38
New York	69,182.5	375.1	3.87	59,140.4	404.5	4.16	20,949.0	406.2	4.19	149,271.9	391.1	4.03
Pennsylvania	84.2	375.1	3.75	-	-	-	-	-	-	84.2	375.1	3.75
East North Central	**9,267.0**	**415.4**	**4.02**	**6,956.1**	**414.1**	**3.25**	**3.2**	**284.0**	**2.84**	**16,226.3**	**414.9**	**3.69**
Illinois	4,302.6	456.7	4.66	951.4	418.3	4.33	-	-	-	5,254.0	449.7	4.60
Indiana	2,424.9	356.5	3.57	-	-	-	-	-	-	2,424.9	356.5	3.57
Michigan	2,276.7	400.6	3.34	1,885.5	309.6	.49	-	-	-	4,162.2	388.2	2.05
Ohio	261.4	375.0	3.75	255.2	465.6	4.71	3.2	284.0	2.84	519.8	419.2	4.22
Wisconsin	1.4	408.1	4.12	3,864.0	417.6	4.23	-	-	-	3,865.4	417.6	4.23
West North Central	**15,760.0**	**249.9**	**2.21**	**47,489.3**	**269.0**	**2.66**	-	-	-	**63,249.3**	**264.6**	**2.55**
Iowa	667.4	368.4	3.76	946.2	346.9	3.54	-	-	-	1,613.6	355.8	3.63
Kansas	14,794.3	240.5	2.11	38,578.0	251.1	2.48	-	-	-	53,372.4	248.4	2.37
Minnesota	231.9	381.9	3.83	3,014.2	332.1	3.32	-	-	-	3,246.1	335.7	3.35
Missouri	-	-	-	4,001.8	363.7	3.72	-	-	-	4,001.8	363.7	3.72
Nebraska	52.1	396.5	3.97	942.7	296.5	2.91	-	-	-	994.8	301.9	2.96
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	14.3	380.3	3.53	6.4	367.5	3.65	-	-	-	20.7	376.1	3.57
South Atlantic	**111,875.4**	**166.8**	**1.67**	**71,949.3**	**320.3**	**3.33**	-	-	-	**183,824.7**	**228.2**	**2.32**
Delaware	516.4	419.7	4.33	4,101.6	407.0	4.21	-	-	-	4,618.0	408.4	4.22
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Florida	111,359.0	165.6	1.66	62,793.6	308.3	3.20	-	-	-	174,152.6	218.2	2.21
Georgia	-	-	-	1,501.1	406.8	4.18	-	-	-	1,501.1	406.8	4.18
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	317.8	379.9	3.91	-	-	-	317.8	379.9	3.91
Virginia	-	-	-	3,104.0	394.2	4.26	-	-	-	3,104.0	394.2	4.26
West Virginia	-	-	-	131.2	415.3	4.15	-	-	-	131.2	415.3	4.15
East South Central	**79,112.3**	**315.1**	**3.22**	**194.5**	**396.2**	**4.19**	**1,572.0**	**335.3**	**3.44**	**80,878.8**	**315.7**	**3.23**
Alabama	1,236.9	292.8	3.30	105.1	390.2	4.32	-	-	-	1,342.0	300.3	3.38
Kentucky	-	-	-	82.4	410.0	4.10	1,572.0	335.3	3.44	1,654.4	338.9	3.47
Mississippi	77,875.4	315.5	3.22	7.0	333.4	3.33	-	-	-	77,882.4	315.5	3.22
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
West South Central	**1,613,606.5**	**291.2**	**3.02**	**247,594.5**	**365.0**	**3.79**	**362.3**	**398.0**	**4.13**	**1,861,563.3**	**301.0**	**3.12**
Arkansas	443.9	315.4	3.20	31,846.3	299.0	3.09	-	-	-	32,290.2	299.2	3.09
Louisiana	294,532.8	292.5	3.06	65,411.1	381.9	3.99	362.3	398.0	4.13	360,306.3	308.8	3.23
Oklahoma	233,014.1	204.3	2.14	9,334.9	303.2	3.10	-	-	-	242,349.0	208.0	2.17
Texas	1,085,615.6	309.7	3.20	141,002.2	376.0	3.90	-	-	-	1,226,617.8	317.3	3.28
Mountain	**35,280.0**	**349.6**	**3.54**	**47,038.6**	**347.1**	**3.64**	-	-	-	**82,318.6**	**348.2**	**3.60**
Arizona	17,282.6	375.6	3.93	8,830.1	334.2	3.54	-	-	-	26,112.7	361.5	3.80
Colorado	733.3	246.4	2.33	4,014.0	390.8	3.73	-	-	-	4,747.3	368.6	3.51
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Montana	285.0	143.2	1.71	33.7	419.0	4.36	-	-	-	318.7	169.0	1.99
Nevada	5,589.9	369.4	3.94	9,294.4	405.2	4.33	-	-	-	14,884.3	391.8	4.18
New Mexico	11,389.2	307.8	2.89	22,668.4	328.7	3.49	-	-	-	34,057.6	322.3	3.29
Utah	-	-	-	2,065.0	243.2	2.29	-	-	-	2,065.0	243.2	2.29
Wyoming	-	-	-	133.0	515.6	4.37	-	-	-	133.0	515.6	4.37
Pacific	-	-	-	**524,562.7**	**502.5**	**5.29**	-	-	-	**524,562.7**	**502.5**	**5.29**
California	-	-	-	524,562.7	502.5	5.29	-	-	-	524,562.7	502.5	5.29
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
Total	**1,934,167.9**	**289.5**	**2.99**	**1,069,667.5**	**431.0**	**4.49**	**22,886.5**	**401.2**	**4.14**	**3,026,721.9**	**340.6**	**3.53**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 50. Average Cost of Gas Received at Peaking Units for Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	Receipts and Cost by Type of Purchase											
	Firm Gas			Interruptible Gas			Off-Peak Gas			Total Gas		
	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf	Quantity 1000 mcf	¢ per 10^6 Btu	$ per mcf
New England	-	-	-	**2,362.0**	**426.8**	**4.32**	-	-	-	**2,362.0**	**426.8**	**4.32**
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	2,362.0	426.8	4.32	-	-	-	2,362.0	426.8	4.32
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**1,190.1**	**368.9**	**3.80**	**14,474.2**	**449.4**	**4.63**	**697.0**	**398.0**	**4.11**	**16,361.3**	**441.3**	**4.54**
New Jersey	-	-	-	13,221.2	453.1	4.67	-	-	-	13,221.2	453.1	4.67
New York	1,190.1	368.9	3.80	95.6	382.9	3.94	697.0	398.0	4.11	1,982.7	379.8	3.91
Pennsylvania	-	-	-	1,157.3	412.0	4.16	-	-	-	1,157.3	412.0	4.16
East North Central	**5,155.4**	**447.0**	**4.56**	**1,405.2**	**405.0**	**4.11**	**1.6**	**284.0**	**2.84**	**6,562.1**	**438.0**	**4.47**
Illinois	3,677.8	474.1	4.87	90.5	324.8	3.37	-	-	-	3,768.3	470.5	4.83
Indiana	51.2	342.5	3.43	91.3	322.6	3.26	-	-	-	142.5	329.7	3.32
Michigan	1,401.1	380.4	3.83	216.5	373.2	3.73	-	-	-	1,617.6	379.4	3.82
Ohio	25.3	321.5	3.21	468.5	436.7	4.47	1.6	284.0	2.84	495.3	430.4	4.40
Wisconsin	-	-	-	538.4	417.7	4.22	-	-	-	538.4	417.7	4.22
West North Central	**71.5**	**369.5**	**3.68**	**1,322.1**	**258.1**	**2.52**	-	-	-	**1,393.6**	**264.0**	**2.58**
Iowa	71.5	369.5	3.68	37.8	379.7	3.79	-	-	-	109.3	373.1	3.71
Kansas	-	-	-	1,199.1	246.0	2.40	-	-	-	1,199.1	246.0	2.40
Minnesota	-	-	-	6.7	332.9	3.33	-	-	-	6.7	332.9	3.33
Missouri	-	-	-	75.3	373.6	3.79	-	-	-	75.3	373.6	3.79
Nebraska	-	-	-	3.1	330.2	3.18	-	-	-	3.1	330.2	3.18
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Atlantic	**992.5**	**161.8**	**1.62**	**3,849.4**	**336.5**	**3.47**	**100.7**	**493.5**	**5.10**	**4,942.6**	**305.5**	**3.13**
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Florida	992.5	161.8	1.62	2,675.4	307.9	3.18	-	-	-	3,667.9	269.3	2.76
Georgia	-	-	-	53.3	390.3	4.01	-	-	-	53.3	390.3	4.01
Maryland	-	-	-	832.7	400.3	4.10	100.7	493.5	5.10	933.4	410.4	4.21
North Carolina	-	-	-	28.6	447.5	4.62	-	-	-	28.6	447.5	4.62
South Carolina	-	-	-	217.4	413.5	4.26	-	-	-	217.4	413.5	4.26
Virginia	-	-	-	42.0	366.1	3.80	-	-	-	42.0	366.1	3.80
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
East South Central	**3,634.2**	**349.6**	**3.63**	**1.4**	**510.0**	**5.10**	**23.9**	**346.9**	**3.56**	**3,659.5**	**349.6**	**3.63**
Alabama	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	1.4	510.0	5.10	23.9	346.9	3.56	25.3	355.9	3.64
Mississippi	3,634.2	349.6	3.63	-	-	-	-	-	-	3,634.2	349.6	3.63
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
West South Central	**60,032.9**	**232.6**	**2.40**	**2,449.6**	**401.2**	**4.22**	-	-	-	**62,482.6**	**239.3**	**2.48**
Arkansas	-	-	-	3.4	318.3	3.23	-	-	-	3.4	318.3	3.23
Louisiana	280.4	163.3	1.74	12.5	406.2	4.06	-	-	-	292.9	173.0	1.84
Oklahoma	2,956.5	198.6	2.06	-	-	-	-	-	-	2,956.5	198.6	2.06
Texas	56,796.0	234.7	2.42	2,433.7	401.2	4.23	-	-	-	59,229.8	241.7	2.50
Mountain	**5,589.0**	**383.1**	**4.05**	**1,269.3**	**329.4**	**3.43**	-	-	-	**6,858.4**	**373.3**	**3.93**
Arizona	4,736.5	381.4	4.02	432.2	344.7	3.62	-	-	-	5,168.7	378.3	3.99
Colorado	-	-	-	695.7	316.6	3.29	-	-	-	695.7	316.6	3.29
Idaho	-	-	-	5.2	534.1	5.74	-	-	-	5.2	534.1	5.74
Montana	-	-	-	3.2	401.8	4.10	-	-	-	3.2	401.8	4.10
Nevada	852.6	393.0	4.19	-	-	-	-	-	-	852.6	393.0	4.19
New Mexico	-	-	-	133.0	335.9	3.49	-	-	-	133.0	335.9	3.49
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Pacific	-	-	-	**6,855.0**	**487.3**	**5.10**	-	-	-	**6,855.0**	**487.3**	**5.10**
California	-	-	-	6,706.6	485.8	5.09	-	-	-	6,706.6	485.8	5.09
Oregon	-	-	-	35.7	537.5	5.32	-	-	-	35.7	537.5	5.32
Washington	-	-	-	112.6	562.0	5.81	-	-	-	112.6	562.0	5.81
Total	**76,665.7**	**264.9**	**2.74**	**33,988.2**	**425.9**	**4.39**	**823.2**	**408.1**	**4.21**	**111,477.1**	**315.0**	**3.25**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 51. Coal Receipts and Average Cost by Sulfur Content for Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	0.5% or Less			More than 0.5% up to 1.0%			More than 1.0% up to 1.5%		
	Quantity 1000 tons	¢ per 10^6 Btu	$ per ton	Quantity 1000 tons	¢ per 10^6 Btu	$ per ton	Quantity 1000 tons	¢ per 10^6 Btu	$ per ton
New England	**-**	**-**	**-**	**289.6**	**245.3**	**64.32**	**2,710.3**	**249.6**	**65.63**
Connecticut	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	289.6	245.3	64.32	2,705.7	249.6	65.64
New Hampshire	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	4.6	229.5	61.71
Middle Atlantic	**166.0**	**75.8**	**11.26**	**2,837.7**	**181.2**	**42.82**	**9,233.7**	**171.9**	**42.97**
New Jersey	-	-	-	935.1	226.2	60.36	1,323.3	219.4	58.14
New York	-	-	-	405.1	152.6	33.96	1,115.1	191.7	46.59
Pennsylvania	166.0	75.8	11.26	1,497.5	155.1	34.27	6,795.3	158.8	39.42
East North Central	**17,227.0**	**235.4**	**44.64**	**33,502.8**	**220.3**	**49.73**	**9,535.8**	**162.5**	**36.68**
Illinois	4,658.1	261.5	52.53	8,153.2	271.3	53.92	971.6	164.6	38.54
Indiana	3,295.6	281.6	60.23	1,846.2	268.4	59.08	4,104.1	144.8	31.16
Michigan	3,208.2	192.4	37.16	10,430.5	221.2	54.84	329.2	203.9	49.13
Ohio	1,685.9	253.1	41.39	10,855.9	190.0	44.85	3,586.5	174.8	41.54
Wisconsin	4,379.2	187.1	31.23	2,217.0	150.6	26.38	544.4	176.1	35.45
West North Central	**25,175.7**	**124.9**	**21.11**	**31,284.1**	**118.5**	**19.12**	**2,495.4**	**174.2**	**39.37**
Iowa	7,596.9	145.9	24.85	940.6	182.4	36.41	-	-	-
Kansas	8,032.8	120.0	20.05	1,195.9	202.5	42.78	-	-	-
Minnesota	-	-	-	10,482.8	125.1	21.61	56.5	187.2	42.39
Missouri	3,101.2	137.2	24.38	3,432.4	129.4	27.58	2,202.0	175.5	41.16
Nebraska	5,148.1	104.7	18.10	663.0	183.9	39.99	39.7	243.5	61.13
North Dakota	1,126.2	66.7	8.88	12,674.6	81.9	10.88	45.2	96.9	13.47
South Dakota	170.4	106.5	17.13	1,894.8	115.2	14.32	152.0	118.4	14.28
South Atlantic	**1,004.9**	**211.0**	**52.50**	**43,872.8**	**199.8**	**49.14**	**19,455.2**	**192.5**	**47.38**
Delaware	3.6	215.9	55.42	983.7	233.6	59.85	51.2	183.9	46.48
District of Columbia	-	-	-	-	-	-	-	-	-
Florida	14.0	317.3	52.93	2,055.7	241.7	60.18	2,315.8	238.0	58.38
Georgia	-	-	-	2,704.1	239.8	62.12	3,035.8	174.5	43.16
Maryland	-	-	-	788.0	200.7	51.73	655.5	188.3	46.76
North Carolina	837.2	216.7	54.29	19,190.1	188.5	46.15	4,773.7	180.4	44.50
South Carolina	-	-	-	1,384.3	187.0	45.78	4,760.6	192.0	47.54
Virginia	37.0	207.8	51.59	5,490.9	194.5	48.54	1,181.6	185.1	46.38
West Virginia	113.1	160.1	39.35	11,275.9	202.4	48.69	2,681.0	201.5	48.10
East South Central	**274.0**	**278.2**	**70.00**	**19,521.2**	**212.3**	**51.33**	**6,053.7**	**179.0**	**43.22**
Alabama	42.8	227.0	56.89	6,910.0	218.9	53.14	2,465.1	198.1	48.09
Kentucky	88.6	246.3	66.29	6,040.5	211.2	52.85	1,863.1	165.7	39.06
Mississippi	142.5	316.3	76.25	1,986.9	275.7	65.74	366.6	234.3	57.53
Tennessee	-	-	-	4,583.7	174.9	40.34	1,358.8	147.5	36.22
West South Central	**50,877.1**	**191.1**	**31.97**	**18,662.0**	**85.1**	**11.21**	**2,349.0**	**106.2**	**14.34**
Arkansas	7,401.1	174.5	29.74	-	-	-	-	-	-
Louisiana	2,344.8	228.6	38.08	203.0	212.1	36.83	-	-	-
Oklahoma	10,723.3	164.6	28.08	-	-	-	-	-	-
Texas	30,407.9	202.0	33.42	18,459.0	83.3	10.93	2,349.0	106.2	14.34
Mountain	**31,319.5**	**114.7**	**22.12**	**40,134.3**	**91.4**	**17.99**	**22.2**	**125.1**	**27.84**
Arizona	6,052.0	142.1	28.64	7,500.0	100.5	21.94	-	-	-
Colorado	11,071.7	107.0	20.80	939.6	129.1	27.96	22.2	125.1	27.84
Idaho	-	-	-	-	-	-	-	-	-
Montana	110.2	127.7	16.88	2,490.9	55.1	9.47	-	-	-
Nevada	1,585.4	186.7	42.72	5,004.0	94.5	20.64	-	-	-
New Mexico	-	-	-	12,362.5	78.5	14.35	-	-	-
Utah	3,021.0	131.4	30.63	2,973.0	151.3	34.57	-	-	-
Wyoming	9,479.2	80.0	13.40	8,864.3	77.9	13.98	-	-	-
Pacific	**1,134.5**	**171.5**	**28.50**	**4,400.0**	**138.9**	**22.50**	**-**	**-**	**-**
California	-	-	-	-	-	-	-	-	-
Oregon	1,134.5	171.5	28.50	-	-	-	-	-	-
Washington	-	-	-	4,400.0	138.9	22.50	-	-	-
Total	**127,178.6**	**164.8**	**29.30**	**194,504.5**	**165.1**	**33.89**	**51,855.3**	**182.0**	**43.20**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 51. Coal Receipts and Average Cost by Sulfur Content for Steam-Electric Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982-Continued

Census Region and State	More than 1.5% up to 2.0%			More than 2.0% up to 3.0%			More than 3.0%			All Purchases	
	Quantity 1000 tons	¢ per 10^6 Btu	$ per ton	Quantity 1000 tons	¢ per 10^6 Btu	$ per ton	Quantity 1000 tons	¢ per 10^6 Btu	$ per ton	¢ per 10^6 Btu	$ per ton
New England	**154.5**	**228.0**	**60.02**	**836.2**	**188.6**	**51.11**	**-**	**-**	**-**	**235.4**	**62.28**
Connecticut	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	93.7	247.7	66.63	-	-	-	-	-	-	249.1	65.55
New Hampshire	25.8	179.8	45.66	836.2	188.6	51.11	-	-	-	188.4	50.94
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
Vermont	35.0	207.8	52.91	-	-	-	-	-	-	210.5	53.94
Middle Atlantic	**14,653.1**	**158.9**	**38.71**	**17,988.6**	**166.9**	**41.01**	**4,511.7**	**202.0**	**48.98**	**169.3**	**41.43**
New Jersey	7.4	228.0	57.28	270.5	182.4	46.90	342.2	182.3	47.08	214.0	56.49
New York	2,480.2	186.2	46.41	2,568.1	180.2	45.78	13.3	158.6	39.11	182.8	45.41
Pennsylvania	12,165.4	153.2	37.13	15,150.0	164.2	40.10	4,156.1	203.9	49.16	163.5	39.68
East North Central	**3,925.3**	**158.3**	**36.83**	**32,894.4**	**151.3**	**34.60**	**46,047.9**	**154.4**	**34.49**	**178.4**	**39.51**
Illinois	923.5	157.5	36.59	7,454.0	148.3	32.41	8,747.8	154.7	32.18	198.3	41.37
Indiana	826.9	144.3	31.44	8,206.3	137.0	29.55	13,817.5	136.9	30.16	160.4	34.92
Michigan	147.9	205.8	50.49	6,270.1	153.6	37.74	811.5	150.4	38.01	193.8	46.34
Ohio	1,211.8	153.6	36.98	7,259.6	156.4	37.07	20,703.3	164.6	37.88	172.3	39.82
Wisconsin	815.2	170.4	39.87	3,704.4	171.9	40.07	1,967.7	164.3	37.92	171.7	34.49
West North Central	**170.6**	**194.6**	**47.14**	**4,759.2**	**148.6**	**33.32**	**14,907.7**	**145.6**	**31.25**	**131.3**	**23.61**
Iowa	21.2	152.2	35.43	1,226.8	165.8	35.92	919.7	191.0	42.45	156.8	28.66
Kansas	-	-	-	580.4	196.1	45.18	1,369.6	108.2	20.19	134.1	23.80
Minnesota	117.3	208.3	51.42	168.4	202.3	49.97	301.7	155.1	33.57	129.3	22.78
Missouri	32.0	169.5	39.23	2,783.5	127.5	28.69	12,316.6	145.4	31.59	143.1	30.63
Nebraska	-	-	-	-	-	-	-	-	-	116.9	20.87
North Dakota	-	-	-	-	-	-	-	-	-	80.7	10.73
South Dakota	-	-	-	-	-	-	-	-	-	114.6	14.53
South Atlantic	**17,059.2**	**184.1**	**44.94**	**15,664.3**	**177.5**	**42.64**	**11,990.9**	**141.3**	**34.05**	**186.7**	**45.61**
Delaware	796.9	193.0	47.91	94.7	200.3	48.54	-	-	-	214.1	54.00
District of Columbia	-	-	-	-	-	-	-	-	-	-	-
Florida	1,027.6	231.3	54.92	2,020.7	211.3	50.53	2,416.8	164.0	37.79	215.3	51.72
Georgia	5,378.3	183.2	44.61	8,376.6	176.2	41.14	1,674.3	169.8	36.68	186.1	44.64
Maryland	3,606.0	190.7	47.10	736.0	192.2	46.89	-	-	-	192.0	47.66
North Carolina	112.4	174.0	41.66	3.8	171.0	40.58	-	-	-	187.8	46.09
South Carolina	1,872.7	192.6	48.09	527.0	183.7	45.57	.1	183.5	43.87	190.8	47.25
Virginia	89.0	190.8	47.04	-	-	-	-	-	-	192.9	48.16
West Virginia	4,176.3	162.2	39.09	3,905.6	159.7	40.47	7,899.6	129.6	32.34	171.4	41.90
East South Central	**6,054.1**	**165.0**	**38.81**	**21,795.3**	**177.7**	**41.78**	**12,048.7**	**127.1**	**27.62**	**179.1**	**42.00**
Alabama	1,921.1	193.7	47.42	5,612.3	195.7	46.27	615.4	135.1	30.60	203.1	48.83
Kentucky	1,657.3	145.4	33.77	5,109.3	142.2	31.90	10,876.4	124.0	26.68	155.2	35.38
Mississippi	30.0	191.6	49.79	1,302.8	190.1	46.65	-	-	-	242.9	58.73
Tennessee	2,445.7	154.1	35.34	9,770.9	183.3	43.72	556.9	170.9	42.63	174.5	41.22
West South Central	**1,826.7**	**117.0**	**12.87**	**428.5**	**112.7**	**12.64**	**171.7**	**130.9**	**14.60**	**164.5**	**25.58**
Arkansas	-	-	-	-	-	-	-	-	-	174.5	29.74
Louisiana	-	-	-	-	-	-	-	-	-	227.2	37.98
Oklahoma	-	-	-	-	-	-	-	-	-	164.6	28.08
Texas	1,826.7	117.0	12.87	428.5	112.7	12.64	171.7	130.9	14.60	159.6	23.92
Mountain	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**101.5**	**19.80**
Arizona	-	-	-	-	-	-	-	-	-	118.2	24.93
Colorado	-	-	-	-	-	-	-	-	-	108.9	21.37
Idaho	-	-	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-	57.5	9.79
Nevada	-	-	-	-	-	-	-	-	-	117.5	25.96
New Mexico	-	-	-	-	-	-	-	-	-	78.5	14.35
Utah	-	-	-	-	-	-	-	-	-	141.2	32.58
Wyoming	-	-	-	-	-	-	-	-	-	78.9	13.68
Pacific	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**145.7**	**23.73**
California	-	-	-	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	171.5	28.50
Washington	-	-	-	-	-	-	-	-	-	138.9	22.50
Total	**43,843.5**	**169.4**	**40.01**	**94,366.5**	**165.1**	**38.80**	**89,678.5**	**150.1**	**33.66**	**164.7**	**34.90**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Source: Federal Power Commission Form 423.

Cost and Quality Data

Table 52. Fuel Oil Receipts and Average Cost by Sulfur Content for All Reporting Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982

Census Region and State	0.3% or Less			More than 0.3% up to 0.5%			More than 0.5% up to 1.0%		
	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl
New England	**-**	**-**	**-**	**2,912.0**	**520.9**	**32.48**	**24,116.7**	**467.6**	**29.28**
Connecticut	-	-	-	2,776.0	520.5	32.45	14,731.8	465.9	29.17
Maine	-	-	-	-	-	-	2,070.0	512.5	32.12
Massachusetts	-	-	-	136.0	528.8	33.05	6,418.3	457.8	28.63
New Hampshire	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	896.5	463.3	29.11
Vermont	-	-	-	-	-	-	-	-	-
Middle Atlantic	**14,997.4**	**538.9**	**33.09**	**5,665.5**	**510.4**	**31.75**	**25,905.5**	**498.2**	**30.94**
New Jersey	4,841.2	546.6	33.52	947.0	495.2	31.10	760.6	475.5	29.63
New York	10,156.1	535.3	32.88	2,105.5	519.0	31.99	19,208.9	499.0	30.97
Pennsylvania	-	-	-	2,613.0	509.1	31.80	5,936.0	498.5	30.99
East North Central	**-**	**-**	**-**	**-**	**-**	**-**	**9,376.6**	**675.8**	**42.75**
Illinois	-	-	-	-	-	-	7,950.4	706.2	44.86
Indiana	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	1,408.0	502.6	31.04
Ohio	-	-	-	-	-	-	18.2	451.3	28.99
Wisconsin	-	-	-	-	-	-	-	-	-
West North Central	**-**	**-**	**-**	**-**	**-**	**-**	**96.6**	**364.6**	**23.22**
Iowa	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	96.6	364.6	23.22
Minnesota	-	-	-	-	-	-	-	-	-
Missouri	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-
South Atlantic	**230.6**	**427.1**	**26.84**	**157.0**	**454.8**	**29.61**	**25,870.0**	**465.6**	**29.36**
Delaware	98.6	413.3	25.96	-	-	-	2,592.0	476.4	30.23
District of Columbia	-	-	-	-	-	-	126.0	560.9	33.79
Florida	18.0	482.3	30.27	157.0	454.8	29.61	18,247.9	460.2	29.07
Georgia	-	-	-	-	-	-	-	-	-
Maryland	114.0	430.2	27.06	-	-	-	3,721.0	471.0	29.57
North Carolina	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	1,183.0	500.5	30.92
West Virginia	-	-	-	-	-	-	-	-	-
East South Central	**-**	**-**	**-**	**-**	**-**	**-**	**1.9**	**503.6**	**32.23**
Alabama	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-
Mississippi	-	-	-	-	-	-	1.9	503.6	32.23
Tennessee	-	-	-	-	-	-	-	-	-
West South Central	**35.3**	**665.9**	**40.99**	**126.5**	**561.4**	**34.29**	**1,306.1**	**447.0**	**27.71**
Arkansas	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	442.6	429.9	27.20
Oklahoma	-	-	-	-	-	-	-	-	-
Texas	35.3	665.9	40.99	126.5	561.4	34.29	863.5	456.1	27.98
Mountain	**118.4**	**580.5**	**34.68**	**41.7**	**543.2**	**32.95**	**160.3**	**459.9**	**29.02**
Arizona	-	-	-	41.7	543.2	32.95	75.2	509.1	31.97
Colorado	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	85.1	416.9	26.41
New Mexico	118.4	580.5	34.68	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-
Pacific	**4,913.6**	**654.4**	**40.12**	**6,782.2**	**700.8**	**43.83**	**900.2**	**679.7**	**42.77**
California	4,913.6	654.4	40.12	6,782.2	700.8	43.83	900.2	679.7	42.77
Oregon	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-
Total	**20,295.2**	**566.0**	**34.74**	**15,684.9**	**594.8**	**37.11**	**87,733.9**	**500.2**	**31.34**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Kerosene, Jet Fuel, and Fuel Oil No. 2 have been omitted from this table.
Source: Federal Power Commission Form 423.

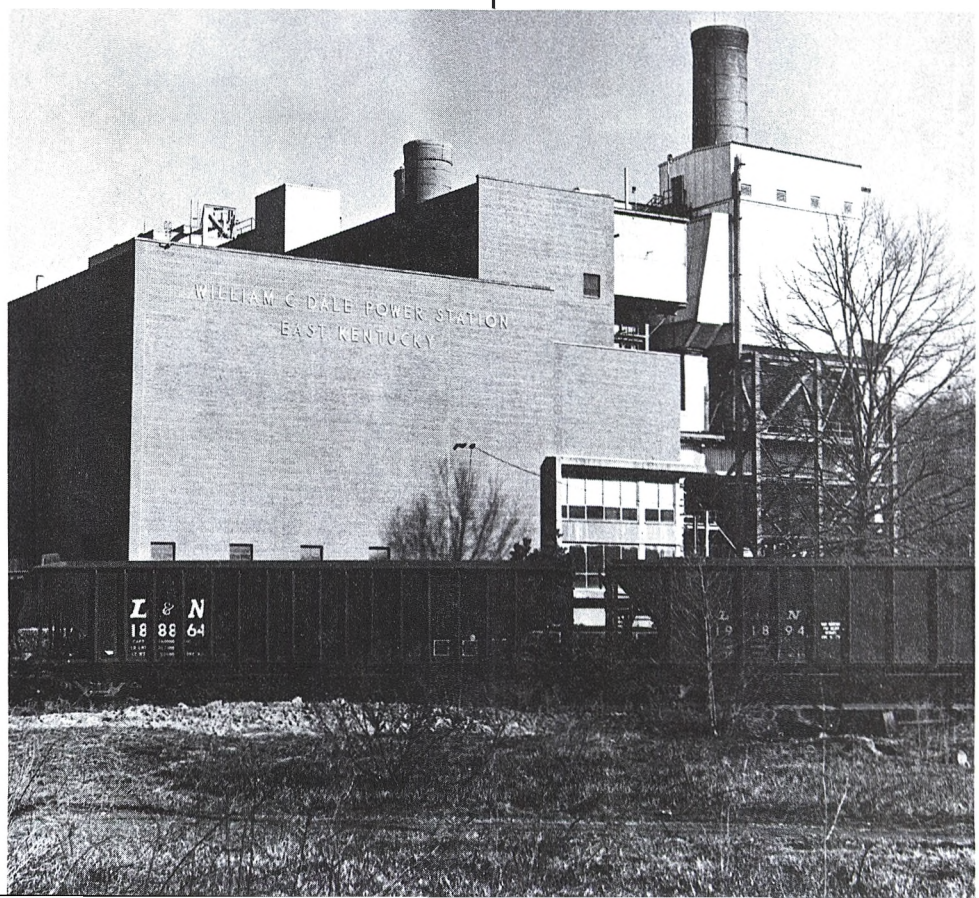
Table 52. Fuel Oil Receipts and Average Cost by Sulfur Content for All Reporting Plants of 25-Megawatt Capacity or Larger, by Census Region and State, 1982-Continued

Census Region and State	More than 1.0% up to 2.0%			More than 2.0% up to 3.0%			More than 3.0%			All Purchases	
	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	Quantity 1000 bbls	¢ per 10^6 Btu	$ per bbl	¢ per 10^6 Btu	$ per bbl
New England	**7,074.8**	**422.1**	**26.55**	**20,662.0**	**407.2**	**25.59**	**54.0**	**410.1**	**25.92**	**441.7**	**27.70**
Connecticut	-	-	-	-	-	-	-	-	-	474.5	29.69
Maine	-	-	-	961.8	418.4	26.38	-	-	-	482.5	30.30
Massachusetts	4,410.0	427.9	26.88	19,448.9	406.6	25.54	54.0	410.1	25.92	421.0	26.42
New Hampshire	2,581.8	412.0	25.97	251.3	414.3	25.83	-	-	-	412.2	25.96
Rhode Island	83.0	425.0	26.77	-	-	-	-	-	-	460.1	28.92
Vermont	-	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**11,424.7**	**427.4**	**26.84**	**14,143.3**	**405.2**	**25.64**	**-**	**-**	**-**	**477.7**	**29.76**
New Jersey	1,257.8	449.3	28.21	61.3	439.2	27.60	-	-	-	516.8	31.96
New York	10,166.9	424.7	26.67	14,082.0	405.1	25.63	-	-	-	468.5	29.22
Pennsylvania	-	-	-	-	-	-	-	-	-	501.8	31.24
East North Central	**246.7**	**456.8**	**28.79**	**-**	**-**	**-**	**-**	**-**	**-**	**670.3**	**42.39**
Illinois	-	-	-	-	-	-	-	-	-	706.2	44.86
Indiana	-	-	-	-	-	-	-	-	-	-	-
Michigan	149.4	405.6	25.55	-	-	-	-	-	-	493.1	30.52
Ohio	97.3	535.0	33.77	-	-	-	-	-	-	521.7	33.02
Wisconsin	-	-	-	-	-	-	-	-	-	-	-
West North Central	**536.9**	**413.4**	**26.02**	**-**	**-**	**-**	**-**	**-**	**-**	**405.9**	**25.60**
Iowa	-	-	-	-	-	-	-	-	-	-	-
Kansas	188.1	370.3	23.58	-	-	-	-	-	-	368.4	23.46
Minnesota	16.5	465.3	29.44	-	-	-	-	-	-	465.3	29.44
Missouri	332.3	435.6	27.24	-	-	-	-	-	-	435.6	27.24
Nebraska	-	-	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-
South Atlantic	**15,755.7**	**425.5**	**26.93**	**23,450.8**	**410.2**	**25.87**	**-**	**-**	**-**	**435.9**	**27.52**
Delaware	-	-	-	570.2	422.4	26.57	-	-	-	465.1	29.46
District of Columbia	85.0	591.5	35.74	-	-	-	-	-	-	573.2	34.58
Florida	12,403.5	421.7	26.79	22,600.2	409.5	25.84	-	-	-	429.8	27.17
Georgia	-	-	-	39.6	374.4	23.48	-	-	-	374.4	23.48
Maryland	1,609.2	429.2	26.97	233.0	451.1	28.18	-	-	-	457.5	28.73
North Carolina	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	7.8	414.9	26.05	-	-	-	414.9	26.05
Virginia	1,658.0	442.9	27.50	-	-	-	-	-	-	466.8	28.92
West Virginia	-	-	-	-	-	-	-	-	-	-	-
East South Central	**-**	**-**	**-**	**237.6**	**378.4**	**24.06**	**44.1**	**392.4**	**24.94**	**381.5**	**24.25**
Alabama	-	-	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-
Mississippi	-	-	-	237.6	378.4	24.06	44.1	392.4	24.94	381.5	24.25
Tennessee	-	-	-	-	-	-	-	-	-	-	-
West South Central	**816.1**	**370.3**	**23.52**	**6.4**	**415.3**	**26.16**	**-**	**-**	**-**	**428.6**	**26.78**
Arkansas	101.3	397.2	25.08	6.4	415.3	26.16	-	-	-	398.2	25.15
Louisiana	714.8	366.5	23.30	-	-	-	-	-	-	390.7	24.79
Oklahoma	-	-	-	-	-	-	-	-	-	-	-
Texas	-	-	-	-	-	-	-	-	-	476.3	29.20
Mountain	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**513.9**	**31.62**
Arizona	-	-	-	-	-	-	-	-	-	521.0	32.32
Colorado	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	416.9	26.41
New Mexico	-	-	-	-	-	-	-	-	-	580.5	34.68
Utah	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-
Pacific	**329.9**	**510.9**	**32.08**	**-**	**-**	**-**	**-**	**-**	**-**	**677.0**	**42.04**
California	329.9	510.9	32.08	-	-	-	-	-	-	677.0	42.04
Oregon	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-
Total	**36,184.8**	**425.0**	**26.79**	**58,500.2**	**407.8**	**25.71**	**98.1**	**402.1**	**25.48**	**475.5**	**29.81**

Note: This table excludes Alaska and Hawaii.
Note: Totals may not equal the sum of the components because of independent rounding.
Kerosene, Jet Fuel, and Fuel Oil No. 2 have been omitted from this table.
Source: Federal Power Commission Form 423.

Coal, Origin-by-Destination Data

by Bureau of Mines Coal Producing District, and State, 1982



4. Coal, Origin-by Destination Data by Bureau of Mines, Coal Producing District, and State, 1982

The percentages shown under the heading "Pct of Receipt," Surface and Spot, represent the percent of total coal shipments surface-mined (as opposed to coal-mined underground) and the percent purchased on the spot market (as opposed to coal purchased under contract). Therefore, the sum of the two columns would not equal 100 percent.

Table 53. Origin and Destination of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982

BOM District / Origin State / Destination State	Receipts 1000 Tons	Pct of Receipts		Average Heat Value Btu per Pound	Av. Wt. Pct		Average Delivered Price $ per Ton
		Surface	Spot		Sulfur	Ash	
District 1	**41,234.2**	**59.4**	**21.3**	**12,208**	**1.9**	**14.6**	**41.04**
Maryland	**1,323.1**	**81.6**	**31.1**	**12,290**	**1.8**	**13.9**	**45.53**
Maryland	1,132.0	91.5	19.5	12,307	1.8	13.7	47.17
Pennsylvania	7.4	100.0	100.0	13,544	1.2	6.5	48.08
West Virginia	183.8	19.6	100.0	12,133	1.7	15.1	35.32
Pennsylvania	**37,069.0**	**61.1**	**22.5**	**12,228**	**1.9**	**14.5**	**41.17**
Delaware	1,250.7	96.0	35.5	12,514	1.6	11.9	49.94
Maryland	3,317.5	99.1	29.4	12,335	1.7	13.0	46.95
Massachusetts	457.1	91.3	16.8	13,147	1.3	7.9	63.05
Michigan	649.0	92.9	13.7	12,658	2.8	9.6	46.45
New Jersey	259.1	99.6	51.5	13,201	1.1	8.6	54.94
New York	5,480.0	92.7	43.7	12,307	1.8	13.1	44.09
Ohio	.7	100.0	100.0	10,718	.8	12.1	37.00
Pennsylvania	24,837.5	44.3	16.9	12,128	1.9	15.7	38.51
West Virginia	33.5	100.0	26.9	12,356	1.0	14.2	40.26
Wisconsin	763.8	100.0	-	12,741	2.9	8.9	45.04
West Virginia	**2,842.0**	**26.6**	**.8**	**11,905**	**1.9**	**16.4**	**37.19**
Maryland	7.0	100.0	100.0	12,523	1.8	10.1	40.22
New Jersey	1.0	-	100.0	13,877	.9	7.7	50.62
West Virginia	2,834.0	26.4	.6	11,903	1.9	16.4	37.18
District 2	**8,377.0**	**63.8**	**35.6**	**12,233**	**2.0**	**12.1**	**40.43**
Pennsylvania	**8,377.0**	**63.8**	**35.6**	**12,233**	**2.0**	**12.1**	**40.43**
Kentucky	11.3	100.0	-	10,662	2.7	18.1	34.73
Maryland	93.0	58.1	100.0	12,234	1.9	12.4	46.14
Massachusetts	582.8	-	100.0	13,204	1.4	6.3	66.37
Michigan	122.2	100.0	.8	12,386	1.4	10.5	53.64
New Hampshire	25.8	-	-	12,698	1.6	8.6	45.66
New Jersey	130.4	13.3	84.4	13,249	1.3	6.2	57.43
New York	282.8	87.6	79.8	12,651	2.1	10.2	46.08
Ohio	1,661.0	64.7	45.0	12,105	2.4	12.8	36.98
Pennsylvania	5,384.8	69.9	21.4	12,108	2.0	12.8	37.43
Vermont	39.6	100.0	100.0	12,814	1.7	8.8	53.94
West Virginia	3.9	-	100.0	12,170	1.2	12.4	42.47
Wisconsin	39.4	28.9	71.1	13,153	1.5	5.9	46.01
District 3	**25,157.6**	**35.7**	**16.3**	**12,708**	**2.3**	**10.7**	**41.72**
West Virginia	**25,157.6**	**35.7**	**16.3**	**12,708**	**2.3**	**10.7**	**41.72**
Delaware	112.3	-	.6	13,276	.8	7.2	55.22
Kentucky	1.6	100.0	100.0	11,910	2.7	10.0	23.22
Maryland	1,212.0	22.7	36.2	12,714	1.2	10.3	50.12
Massachusetts	630.1	85.0	4.7	13,065	1.1	8.9	62.31
Michigan	3,874.0	18.8	.5	12,669	2.9	11.3	34.88
New Hampshire	304.1	-	5.6	13,588	2.4	7.8	52.24
New Jersey	1,690.5	79.3	14.4	13,034	1.8	9.2	52.93
New York	571.1	14.3	38.9	13,071	2.3	9.0	48.18
Ohio	327.1	100.0	66.9	12,188	1.2	12.4	35.04
Pennsylvania	4,606.7	21.3	51.5	12,838	2.2	9.8	42.16
Virginia	6.0	-	100.0	12,780	1.4	9.8	53.19
West Virginia	11,770.6	39.8	4.3	12,573	2.5	11.5	39.63
Wisconsin	51.5	76.9	70.1	12,321	1.4	10.2	54.74
District 4	**31,099.1**	**60.1**	**22.5**	**11,565**	**3.3**	**12.5**	**40.42**
Ohio	**31,099.1**	**60.1**	**22.5**	**11,565**	**3.3**	**12.5**	**40.42**
Alabama	2,538.3	100.0	-	11,508	2.3	12.2	44.39
Indiana	18.3	100.0	100.0	11,153	3.2	13.1	29.50
Kentucky	480.4	100.0	19.4	11,252	2.5	14.7	34.40
Michigan	1,472.4	-	-	11,220	2.3	10.6	40.08
Minnesota	2.3	-	-	13,000	2.4	7.3	66.56
Ohio	23,446.1	62.6	25.0	11,525	3.5	12.7	38.05
Pennsylvania	3,080.8	30.9	31.6	12,121	3.6	11.9	56.18
Tennessee	6.4	100.0	100.0	11,337	1.7	13.0	25.82
West Virginia	15.4	64.3	28.6	11,986	3.0	7.5	38.51
Wisconsin	38.8	77.3	100.0	12,362	2.3	9.2	54.31
District 6	**6,642.5**	**.1**	**3.1**	**12,109**	**3.9**	**11.4**	**32.69**
West Virginia	**6,642.5**	**.1**	**3.1**	**12,109**	**3.9**	**11.4**	**32.69**
Indiana	252.0	-	-	11,687	4.0	13.9	27.18
Ohio	3,287.0	.2	4.0	12,209	3.7	9.3	37.98
West Virginia	3,030.0	-	-	12,025	4.1	13.4	27.26
Wisconsin	73.5	-	100.0	12,552	3.1	9.7	38.94
District 7	**2,349.8**	**28.5**	**7.0**	**12,561**	**1.2**	**11.0**	**52.21**

Source: Federal Power Commission Form 423.

Table 53. Origin and Destination of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982—Continued

BOM District Origin State Destination State	Receipts 1000 Tons	Pct of Receipts		Average Heat Value Btu per Pound	Av. Wt. Pct		Average Delivered Price $ per Ton
		Surface	Spot		Sulfur	Ash	
District 7							
Virginia	**737.6**	**34.5**	**3.9**	**11,984**	**0.6**	**13.8**	**45.29**
Florida	3.6	-	100.0	13,970	.7	6.7	40.26
North Carolina	51.2	6.4	38.7	12,442	.7	13.4	40.31
Virginia	548.7	36.8	.9	11,961	.8	14.0	45.40
West Virginia	134.1	36.8	-	11,850	.8	13.3	46.88
West Virginia	**1,612.2**	**25.7**	**8.5**	**12,825**	**1.3**	**9.7**	**55.37**
Alabama	280.3	-	-	12,229	2.3	13.4	43.48
Kentucky	529.6	66.3	-	12,836	.7	9.0	58.23
Massachusetts	382.8	-	-	13,285	1.3	7.4	67.71
New Jersey	126.4	29.5	42.2	13,770	1.3	5.0	62.81
North Carolina	127.6	20.5	53.8	12,708	.9	12.2	40.68
Ohio	14.7	-	100.0	13,158	.7	6.7	55.18
Tennessee	150.8	-	-	11,996	2.3	12.9	42.33
District 8	**115,807.3**	**46.1**	**16.4**	**12,246**	**1.1**	**10.9**	**48.09**
Kentucky	**69,717.7**	**55.2**	**18.0**	**12,184**	**1.1**	**10.6**	**47.89**
Alabama	314.2	69.8	6.3	11,923	1.2	11.9	46.78
Delaware	7.0	-	100.0	12,391	.7	7.4	53.58
Florida	3,416.6	43.9	3.6	12,118	1.5	10.0	58.03
Georgia	9,781.9	67.4	4.8	12,273	1.6	10.9	45.55
Illinois	855.6	50.1	39.9	12,990	.7	6.9	66.73
Indiana	3.5	100.0	100.0	11,778	2.3	8.4	28.33
Kentucky	8,717.0	62.3	20.5	12,155	1.1	9.9	45.70
Michigan	9,020.1	48.9	15.4	12,487	.8	9.1	55.19
Minnesota	3.5	67.0	-	12,020	.8	8.0	47.00
Mississippi	854.2	67.0	-	12,263	1.0	9.7	56.12
New Jersey	71.7	.1	.2	13,356	.8	5.8	61.86
New York	248.0	100.0	-	13,208	1.3	5.2	67.48
North Carolina	11,030.7	30.0	10.9	12,216	.9	10.3	46.98
Ohio	8,638.5	68.9	29.2	11,737	1.0	12.6	42.97
Pennsylvania	195.7	1.1	98.9	12,104	1.2	11.3	46.43
South Carolina	7,407.8	43.8	20.1	12,361	1.4	10.4	47.46
Tennessee	4,652.3	87.2	4.3	11,516	.9	13.5	40.04
Virginia	2,936.1	36.2	91.3	12,622	1.0	9.1	48.50
West Virginia	1,557.7	93.1	6.3	12,125	.9	9.8	50.17
Wisconsin	5.6	33.0	-	12,746	2.6	7.1	54.80
Tennessee	**4,944.4**	**34.5**	**11.9**	**12,349**	**1.5**	**10.9**	**43.92**
Alabama	7.5	99.9	100.0	11,831	2.2	13.3	46.89
Georgia	1,174.0	14.1	2.1	12,713	1.1	8.4	54.07
Kentucky	208.8	96.5	100.0	11,806	2.1	13.6	34.82
Michigan	34.2	100.0	100.0	13,107	.8	5.3	61.41
North Carolina	315.6	85.9	36.6	12,406	1.3	10.4	43.96
South Carolina	76.0	88.7	45.9	12,099	1.4	11.6	43.70
Tennessee	3,126.3	30.7	5.2	12,241	1.7	11.7	40.52
Virginia	2.0	-	100.0	12,876	.8	8.9	52.99
Virginia	**13,740.0**	**34.2**	**16.1**	**12,592**	**1.0**	**10.9**	**50.37**
Delaware	66.4	-	-	13,418	.7	6.5	57.47
Florida	282.3	6.4	-	12,358	.9	8.9	67.74
Georgia	1,142.2	18.7	48.6	13,443	.8	6.9	67.00
Kentucky	282.8	-	-	13,504	.7	6.0	68.96
Massachusetts	1,028.7	-	7.3	13,138	1.3	7.3	67.36
Michigan	49.0	38.8	100.0	13,169	.9	8.2	53.99
New Jersey	534.4	58.3	23.1	13,481	.9	6.9	65.51
North Carolina	6,932.5	43.0	3.6	12,370	1.0	11.8	44.76
Ohio	126.9	50.6	88.3	12,073	.9	9.2	44.37
South Carolina	922.5	49.8	9.5	12,588	1.3	10.9	46.26
Tennessee	180.6	41.8	100.0	11,962	2.0	13.6	28.86
Virginia	2,191.7	25.1	35.8	12,337	.8	13.8	46.71
West Virginia	**27,405.2**	**31.2**	**13.4**	**12,213**	**.9**	**11.8**	**48.23**
Delaware	493.7	2.8	25.3	12,591	.7	9.3	63.56
Florida	723.0	-	-	12,603	.7	8.2	68.29
Kentucky	266.0	100.0	1.1	12,358	.6	11.4	41.12
Maryland	24.0	-	-	13,128	.8	8.0	53.59
Massachusetts	7.5	-	100.0	13,039	.9	9.6	65.59
Michigan	1,248.5	47.7	5.1	13,151	1.3	7.5	53.37
New Hampshire	532.1	-	-	13,521	2.4	8.0	50.46
New Jersey	65.1	4.6	4.8	13,861	1.2	4.6	61.07
North Carolina	6,459.7	20.4	6.4	12,235	.8	12.0	46.25
Ohio	4,906.5	40.5	19.6	12,053	.8	12.1	46.27
Pennsylvania	935.4	25.2	100.0	12,001	3.2	12.5	31.59
South Carolina	138.3	5.9	58.0	12,260	1.0	12.8	44.62
Virginia	1,114.0	76.1	42.1	12,684	.9	8.9	51.46
West Virginia	10,488.4	31.1	5.9	12,002	.7	13.0	48.79
Wisconsin	3.0	100.0	-	12,885	.9	8.7	51.39

Source: Federal Power Commission Form 423.

Table 53. Origin and Destination of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982—Continued

BOM District / Origin State / Destination State	Receipts 1000 Tons	Pct of Receipts		Average Heat Value Btu per Pound	Av. Wt. Pct		Average Delivered Price $ per Ton
		Surface	Spot		Sulfur	Ash	
District 9	**36,428.1**	**55.1**	**6.7**	**11,446**	**3.2**	**11.2**	**35.89**
Kentucky	**36,428.1**	**55.1**	**6.7**	**11,446**	**3.2**	**11.2**	**35.89**
Alabama	1,578.7	.6	.6	11,751	3.2	9.6	42.50
Florida	2,929.6	78.7	.1	11,686	2.9	10.7	39.14
Georgia	2,167.7	100.0	-	11,627	2.7	9.5	41.53
Illinois	583.5	85.8	10.5	11,709	2.9	9.6	37.20
Indiana	2,583.9	98.6	16.0	11,444	3.7	11.7	28.34
Kentucky	12,415.1	63.9	9.1	10,823	3.7	14.6	27.70
Michigan	560.6	18.3	18.3	12,488	2.9	8.6	43.36
Minnesota	15.8	97.3	12.2	12,226	1.3	6.1	48.27
Mississippi	490.1	100.0	100.0	12,259	2.7	8.2	42.73
Missouri	33.7	100.0	-	10,898	3.4	11.2	33.86
Ohio	1,018.1	52.2	-	11,297	3.1	9.7	33.03
Tennessee	9,938.0	15.2	2.1	11,855	2.7	8.6	43.10
Wisconsin	2,093.3	92.0	.1	11,987	2.9	8.6	41.57
District 10	**51,619.2**	**41.9**	**5.1**	**10,959**	**2.7**	**10.2**	**34.35**
Illinois	**51,619.2**	**41.9**	**5.1**	**10,959**	**2.7**	**10.2**	**34.35**
Florida	1,279.5	4.9	-	11,875	2.6	10.4	50.68
Georgia	5,083.1	41.8	-	11,380	2.7	9.2	40.13
Illinois	16,821.1	24.7	7.6	10,727	3.1	10.7	32.87
Indiana	7,151.8	8.4	1.1	10,621	2.5	11.1	33.83
Iowa	1,536.9	99.6	-	11,083	2.9	9.1	36.03
Kansas	467.5	18.0	-	11,316	2.7	12.8	46.90
Kentucky	69.3	3.9	100.0	10,550	3.5	9.2	21.10
Michigan	348.3	67.1	-	12,016	2.4	9.4	44.64
Minnesota	576.9	41.9	9.2	11,560	2.7	9.5	41.75
Mississippi	291.8	100.0	100.0	12,203	2.7	9.0	41.26
Missouri	14,686.6	72.5	3.9	11,026	2.4	10.0	31.15
Tennessee	11.6	-	100.0	11,600	2.0	8.9	34.43
Wisconsin	3,294.9	50.7	7.9	11,137	2.6	9.1	36.78
District 11	**23,782.0**	**98.6**	**10.9**	**10,942**	**2.6**	**10.0**	**29.57**
Indiana	**23,782.0**	**98.6**	**10.9**	**10,942**	**2.6**	**10.0**	**29.57**
Alabama	25.9	100.0	100.0	11,230	2.2	10.6	31.63
Florida	7.1	100.0	100.0	10,406	1.5	8.6	29.94
Georgia	1,279.7	100.0	-	10,978	2.3	9.4	32.04
Illinois	957.9	98.8	34.6	10,652	1.9	11.0	32.81
Indiana	17,336.5	99.0	7.3	10,928	2.7	10.2	28.94
Iowa	50.4	100.0	-	10,991	2.7	10.7	29.45
Kentucky	2,653.4	100.0	7.8	11,048	2.7	9.5	29.33
Michigan	116.6	100.0	100.0	11,069	1.2	8.6	38.25
Minnesota	7.8	100.0	39.7	11,444	1.7	6.6	40.61
Mississippi	24.0	100.0	-	12,196	1.5	7.8	50.73
Missouri	265.2	100.0	-	10,989	1.3	10.0	36.63
Ohio	49.3	100.0	100.0	10,934	1.6	8.9	26.13
Tennessee	604.7	100.0	66.7	11,072	1.8	9.7	27.59
Wisconsin	403.4	64.8	46.6	11,074	2.2	9.5	37.44
District 12	**211.8**	**97.6**	**32.6**	**10,084**	**2.7**	**9.6**	**40.19**
Iowa	**211.8**	**97.6**	**32.6**	**10,084**	**2.7**	**9.6**	**40.19**
Iowa	211.8	97.6	32.6	10,084	2.7	9.6	40.19
District 13	**14,204.1**	**51.5**	**1.9**	**12,157**	**1.3**	**11.8**	**50.51**
Alabama	**13,869.1**	**52.1**	**1.8**	**12,154**	**1.3**	**11.8**	**50.66**
Alabama	12,526.6	47.0	.9	12,151	1.2	11.7	50.84
Florida	240.4	100.0	49.6	12,152	2.3	12.3	49.90
Georgia	520.6	100.0	-	12,062	1.9	13.1	45.33
Mississippi	549.0	100.0	.0	12,371	2.3	11.7	53.19
Tennessee	32.4	95.5	75.9	11,236	1.8	13.1	30.18
Georgia	**4.4**	**-**	**100.0**	**12,338**	**1.5**	**11.7**	**26.07**
Tennessee	4.4	-	100.0	12,338	1.5	11.7	26.07
Tennessee	**330.7**	**26.2**	**3.6**	**12,293**	**.9**	**12.3**	**44.39**
Alabama	295.3	19.2	3.0	12,330	.8	12.6	44.24
Minnesota	26.9	100.0	-	12,300	1.4	8.8	47.97
Tennessee	8.5	36.6	36.6	11,000	1.3	13.5	38.16
District 14	**14.1**	**100.0**	**100.0**	**12,733**	**3.6**	**11.0**	**45.04**
Oklahoma	**14.1**	**100.0**	**100.0**	**12,733**	**3.6**	**11.0**	**45.04**
Iowa	14.1	100.0	100.0	12,733	3.6	11.0	45.04
District 15	**37,654.5**	**100.0**	**9.4**	**7,298**	**1.8**	**15.8**	**15.35**
Kansas	**1,441.4**	**100.0**	**11.7**	**10,463**	**4.7**	**20.7**	**29.28**
Kansas	737.8	100.0	6.2	9,364	5.0	25.5	20.02
Missouri	701.9	100.0	17.3	11,610	4.3	15.8	38.94
Nebraska	1.7	100.0	100.0	13,502	1.3	5.7	59.41

Source: Federal Power Commission Form 423.

Table 53. Origin and Destination of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982—Continued

BOM District / Origin State / Destination State	Receipts 1000 Tons	Pct of Receipts		Average Heat Value Btu per Pound	Av. Wt. Pct		Average Delivered Price $ per Ton
		Surface	Spot		Sulfur	Ash	
District 15							
Missouri	**4,361.3**	**100.0**	**9.9**	**10,276**	**4.8**	**17.1**	**30.06**
Illinois	11.9	100.0	-	10,529	3.5	12.0	29.61
Iowa	338.0	100.0	-	10,787	3.8	10.3	50.58
Kansas	590.3	100.0	-	9,163	5.1	26.3	19.04
Missouri	3,421.1	100.0	12.6	10,417	4.8	16.2	29.94
Oklahoma	**1,775.1**	**100.0**	**27.2**	**11,861**	**3.8**	**13.6**	**38.83**
Florida	330.3	100.0	100.0	12,695	.8	8.1	53.41
Iowa	20.0	100.0	100.0	11,985	5.5	14.0	43.97
Kansas	154.4	100.0	72.4	12,035	3.5	12.5	38.46
Missouri	1,268.7	100.0	1.5	11,618	4.6	15.1	34.97
Nebraska	1.6	100.0	100.0	13,465	1.1	7.0	59.41
Texas	**30,076.7**	**100.0**	**8.1**	**6,445**	**.8**	**15.5**	**11.17**
Florida	19.8	100.0	100.0	12,636	.7	8.6	52.93
Texas	30,056.9	100.0	8.1	6,441	.8	15.5	11.14
District 16	**870.5**	**89.0**	**11.0**	**10,907**	**.7**	**10.1**	**51.06**
Colorado	**870.5**	**89.0**	**11.0**	**10,907**	**.7**	**10.1**	**51.06**
Illinois	774.6	100.0	-	10,981	.7	10.2	52.92
Nebraska	95.9	-	100.0	10,311	.4	9.0	35.96
District 17	**13,486.0**	**73.9**	**2.6**	**10,777**	**.4**	**8.5**	**36.54**
Colorado	**13,003.7**	**72.9**	**2.6**	**10,732**	**.4**	**8.3**	**36.11**
Colorado	8,079.8	88.5	2.5	10,497	.4	8.8	22.84
Illinois	636.0	-	10.2	12,257	.4	7.6	57.97
Indiana	1,013.4	-	-	11,268	.5	9.0	64.74
Iowa	138.0	-	-	10,238	.6	9.1	66.45
Kansas	5.5	100.0	-	10,642	.6	11.8	40.70
Mississippi	804.5	-	-	11,573	.6	9.4	66.32
Missouri	154.0	100.0	-	10,273	.4	6.1	43.80
Nebraska	136.6	100.0	55.1	10,394	.5	11.5	42.02
Texas	2,035.9	100.0	-	10,680	.3	5.5	52.69
New Mexico	**482.3**	**100.0**	**-**	**11,996**	**.5**	**15.3**	**48.31**
Arizona	482.3	100.0	-	11,996	.5	15.3	48.31
District 18	**30,121.2**	**100.0**	**.2**	**9,998**	**.6**	**15.2**	**19.26**
Arizona	**12,253.0**	**100.0**	**-**	**10,954**	**.6**	**9.6**	**18.85**
Arizona	7,465.0	100.0	-	10,993	.5	9.1	18.47
Nevada	4,788.0	100.0	-	10,893	.6	10.4	19.44
New Mexico	**17,868.2**	**100.0**	**.3**	**9,342**	**.7**	**19.0**	**19.53**
Arizona	5,505.7	100.0	1.0	9,793	.5	14.3	31.16
New Mexico	12,362.5	100.0	-	9,141	.8	21.1	14.35
District 19	**102,488.2**	**98.6**	**1.4**	**8,686**	**.4**	**6.2**	**28.33**
Wyoming	**102,488.2**	**98.6**	**1.4**	**8,686**	**.4**	**6.2**	**28.33**
Arkansas	7,401.1	100.0	-	8,523	.4	6.3	29.74
Colorado	3,953.7	100.0	-	8,417	.3	5.1	18.38
Florida	13.4	100.0	-	12,001	.7	8.2	67.95
Illinois	8,122.0	100.0	-	9,472	.5	6.9	53.83
Indiana	1,424.2	19.1	-	10,874	.6	5.8	65.19
Iowa	8,182.6	99.2	-	8,649	.4	5.8	25.32
Kansas	9,223.2	100.0	4.1	8,637	.4	5.8	22.98
Louisiana	2,547.8	100.0	-	8,357	.4	6.2	37.98
Mississippi	.2	100.0	-	8,603	.4	6.1	48.74
Missouri	3,336.6	100.0	18.8	9,002	.4	5.7	24.54
Nebraska	5,480.7	99.9	6.6	8,777	.4	5.3	19.07
Ohio	1,827.1	100.0	-	8,010	.5	5.5	40.66
Oklahoma	10,723.3	100.0	-	8,530	.4	5.3	28.08
Oregon	1,134.5	100.0	-	8,306	.4	5.1	28.50
South Dakota	218.4	100.0	-	8,034	.4	7.1	17.29
Texas	16,177.3	100.0	-	8,564	.4	5.3	35.76
Wisconsin	4,378.6	100.0	2.1	8,345	.4	5.2	31.23
Wyoming	18,343.5	100.0	-	8,668	.5	8.3	13.68
District 20	**9,652.8**	**-**	**14.7**	**11,643**	**.5**	**10.3**	**42.90**
Utah	**9,652.8**	**-**	**14.7**	**11,643**	**.5**	**10.3**	**42.90**
Arizona	99.0	-	-	11,282	.4	7.8	51.68
Indiana	809.0	-	-	12,287	.5	7.7	83.23
Mississippi	815.0	-	-	12,076	.5	7.3	73.80
Nebraska	134.4	-	-	12,379	.9	8.4	61.19
Nevada	1,801.4	-	60.3	11,463	.5	9.6	43.27
Utah	5,994.0	-	5.5	11,541	.5	11.4	32.58
District 21	**16,299.6**	**100.0**	**-**	**6,590**	**.6**	**6.2**	**11.40**

Source: Federal Power Commission Form 423.

Table 53. Origin and Destination of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982—Continued

BOM District Origin State Destination State	Receipts 1000 Tons	Pct of Receipts		Average Heat Value Btu per Pound	Av. Wt. Pct		Average Delivered Price $ per Ton
		Surface	Spot		Sulfur	Ash	
District 21							
North Dakota	16,299.6	100.0	-	6,590	0.6	8.2	11.40
Minnesota	454.8	100.0	-	6,869	.8	7.8	19.48
North Dakota	13,846.0	100.0	-	6,643	.6	8.3	10.73
South Dakota	1,998.8	100.0	-	6,159	.9	7.9	14.23
District 22	28,040.3	100.0	0.0	8,958	.6	6.8	31.58
Montana	28,040.3	100.0	.0	8,958	.6	6.8	31.58
Illinois	2,145.6	100.0	-	9,512	.4	4.8	46.63
Indiana	1,504.0	100.0	-	9,605	.4	4.2	46.94
Iowa	213.4	100.0	-	8,660	.7	10.1	30.72
Michigan	3,702.5	100.0	-	9,566	.4	4.6	37.26
Minnesota	10,038.7	100.0	.0	8,718	.8	9.1	21.70
Montana	2,601.1	100.0	-	8,506	.7	8.4	9.79
Texas	5,372.7	100.0	-	8,932	.4	3.9	48.84
Wisconsin	2,462.3	100.0	.4	8,703	.8	8.5	26.27
District 23	4,400.0	100.0	-	8,100	.8	15.7	22.50
Washington	4,400.0	100.0	-	8,100	.8	15.7	22.50
Washington	4,400.0	100.0	-	8,100	.8	15.7	22.50
Anthracite Coal	882.0	95.3	60.1	9,080	.7	24.8	23.04
Pennsylvania	882.0	95.3	60.1	9,080	.7	24.8	23.04
Pennsylvania	882.0	95.3	60.1	9,080	.7	24.8	23.04
Imported Coal	605.0	-	-	11,950	.7	12.7	51.68
South Africa	605.0	-	-	11,950	.7	12.7	51.68
Florida	605.0	-	-	11,950	.7	12.7	51.68
Total	601,426.9	68.8	9.6	10,598	1.5	10.6	34.90

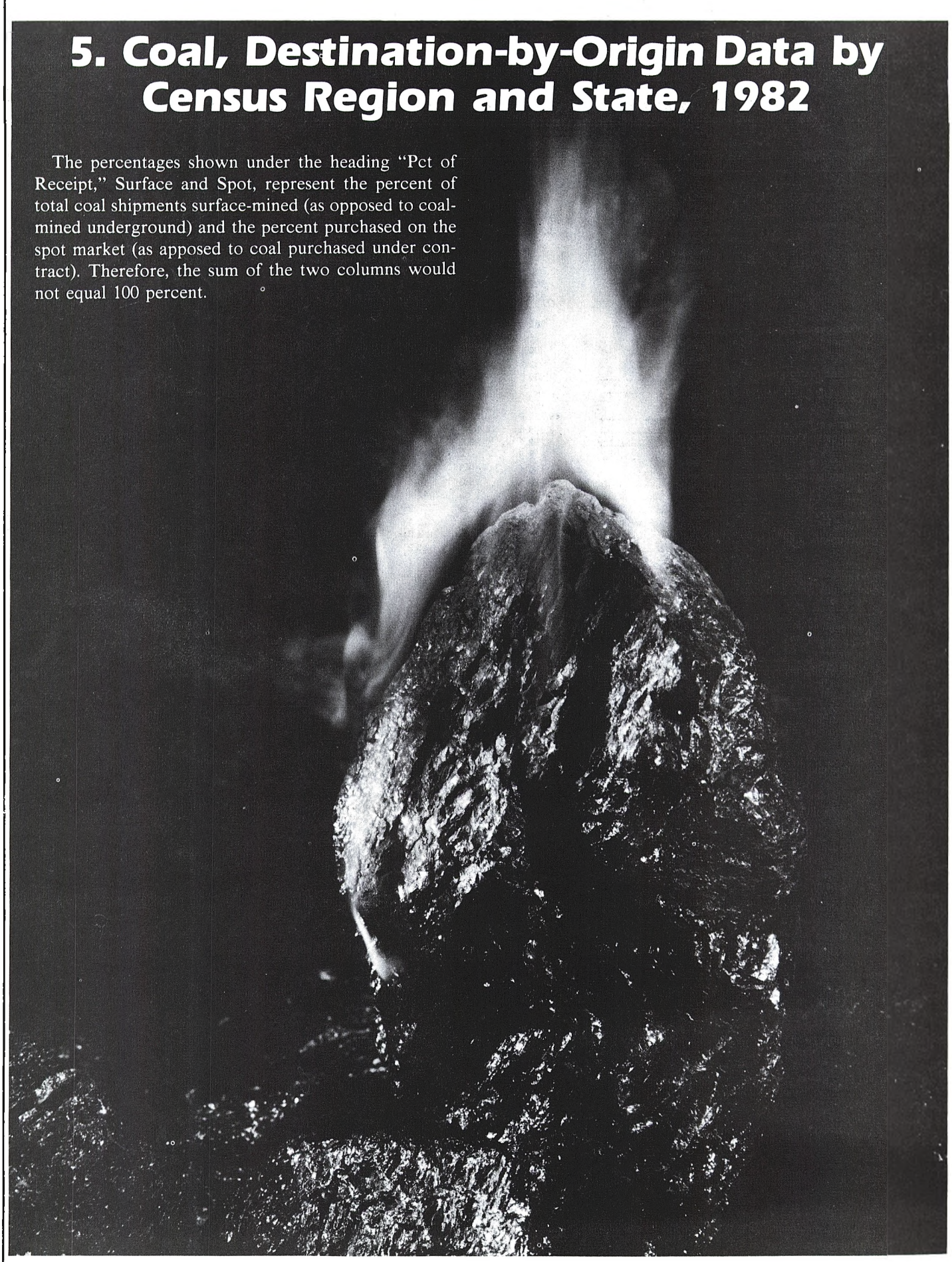
Note: Totals may not equal the sum of the component parts because of independent rounding.
Source: Federal Power Commission Form 423.

Coal, Destination-by-Origin Data

by Census Region and State, 1982

5. Coal, Destination-by-Origin Data by Census Region and State, 1982

The percentages shown under the heading "Pct of Receipt," Surface and Spot, represent the percent of total coal shipments surface-mined (as opposed to coal-mined underground) and the percent purchased on the spot market (as apposed to coal purchased under contract). Therefore, the sum of the two columns would not equal 100 percent.



Coal Destination-by-Origin Data

Table 54. Destination and Origin of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982

Census Region / State of Destination / BOM District and State of Origin	Receipts 1000 Tons	Pct of Receipts		Average Heat Value Btu per Pound	Av. Wt. Pct		Average Delivered Price $ per Ton
		Surface	Spot		Sulfur	Ash	
New England	**3,990.6**	**24.9**	**20.7**	**13,230**	**1.5**	**7.6**	**62.28**
Massachusetts	**3,089.0**	**30.9**	**25.0**	**13,155**	**1.3**	**7.5**	**65.55**
District No 1 Pennsylvania	457.1	91.3	16.8	13,147	1.3	7.9	63.05
District No 2 Pennsylvania	582.8	-	100.0	13,204	1.4	6.3	66.37
District No 3 West Virginia	630.1	85.0	4.7	13,065	1.1	8.9	62.31
District No 7 West Virginia	382.8	-	-	13,285	1.3	7.4	67.71
District No 8 Virginia	1,028.7	-	7.3	13,138	1.3	7.3	67.36
District No 8 West Virginia	7.5	-	100.0	13,039	.9	9.6	65.59
New Hampshire	**862.0**	**-**	**2.0**	**13,520**	**2.4**	**7.9**	**50.94**
District No 2 Pennsylvania	25.8	-	-	12,698	1.6	8.6	45.66
District No 3 West Virginia	304.1	-	5.6	13,588	2.4	7.8	52.24
District No 8 West Virginia	532.1	-	-	13,521	2.4	8.0	50.46
Vermont	**39.6**	**100.0**	**100.0**	**12,814**	**1.7**	**8.8**	**53.94**
District No 2 Pennsylvania	39.6	100.0	100.0	12,814	1.7	8.8	53.94
Mid Atlantic	**49,390.9**	**51.4**	**28.1**	**12,236**	**2.0**	**13.8**	**41.43**
New Jersey	**2,878.6**	**68.4**	**23.2**	**13,201**	**1.5**	**8.2**	**56.49**
District No 1 Pennsylvania	259.1	99.6	51.5	13,201	1.1	8.6	54.94
District No 1 West Virginia	1.0	-	100.0	13,877	.9	7.7	50.62
District No 2 Pennsylvania	130.4	13.3	84.4	13,249	1.3	6.2	57.43
District No 3 West Virginia	1,690.5	79.3	14.4	13,034	1.8	9.2	52.93
District No 7 West Virginia	126.4	29.5	42.2	13,770	1.3	5.0	62.81
District No 8 Kentucky	71.7	.1	.2	13,356	.8	5.8	61.86
District No 8 Virginia	534.4	58.3	23.1	13,481	.9	6.9	65.51
District No 8 West Virginia	65.1	4.6	4.8	13,861	1.2	4.6	61.07
New York	**6,581.9**	**96.0**	**43.2**	**12,422**	**1.8**	**12.3**	**45.41**
District No 1 Pennsylvania	5,480.0	92.7	43.7	12,307	1.8	13.1	44.09
District No 2 Pennsylvania	282.8	87.6	79.8	12,651	2.1	10.2	46.08
District No 3 West Virginia	571.1	14.3	38.9	13,071	2.3	9.0	48.18
District No 8 Kentucky	248.0	100.0	-	13,208	1.3	5.2	67.48
Pennsylvania	**39,930.4**	**44.5**	**26.0**	**12,136**	**2.1**	**14.4**	**39.68**
District No 1 Maryland	7.4	100.0	100.0	13,544	1.2	6.5	48.08
District No 1 Pennsylvania	24,837.5	44.3	16.9	12,128	1.9	15.7	38.51
District No 2 Pennsylvania	5,384.8	69.9	21.4	12,108	2.0	12.8	37.43
District No 3 West Virginia	4,606.7	21.3	51.5	12,838	2.2	9.8	42.16
District No 4 Ohio	3,080.8	30.9	31.6	12,121	3.6	11.9	56.18
District No 8 Kentucky	195.7	1.1	98.9	12,104	1.2	11.3	46.43
District No 8 West Virginia	935.4	25.2	100.0	12,001	3.2	12.5	31.59
Anthracite Coal Pennsylvania	882.0	95.3	60.1	9,080	.7	24.8	23.04
East North Central	**143,133.2**	**61.4**	**11.9**	**11,077**	**2.1**	**10.0**	**39.51**
Illinois	**30,908.2**	**55.3**	**6.7**	**10,429**	**2.0**	**9.1**	**41.37**
District No 8 Kentucky	855.6	50.1	39.9	12,990	.7	6.9	66.73
District No 9 Kentucky	583.5	85.8	10.5	11,709	2.9	9.6	37.20
District No 10 Illinois	16,821.1	24.7	7.6	10,727	3.1	10.7	32.87
District No 11 Indiana	957.9	98.8	34.6	10,652	1.9	11.0	32.81
District No 15 Missouri	11.9	100.0	-	10,529	3.5	12.0	29.61
District No 16 Colorado	774.6	100.0	-	10,981	.7	10.2	52.92
District No 17 Colorado	636.0	-	10.2	12,257	.4	7.6	57.97
District No 19 Wyoming	8,122.0	100.0	-	9,472	.5	6.9	53.83
District No 22 Montana	2,145.6	100.0	-	9,512	.4	4.8	46.63
Indiana	**32,096.6**	**68.9**	**5.5**	**10,888**	**2.4**	**10.0**	**34.92**
District No 4 Ohio	18.3	100.0	100.0	11,153	3.2	13.1	29.50
District No 6 West Virginia	252.0	-	-	11,687	4.0	13.9	27.18
District No 8 Kentucky	3.5	100.0	100.0	11,778	2.3	8.4	28.33
District No 9 Kentucky	2,583.9	98.6	16.0	11,444	3.7	11.7	28.34
District No 10 Illinois	7,151.8	8.4	1.1	10,621	2.5	11.1	33.83
District No 11 Indiana	17,336.5	99.0	7.3	10,928	2.7	10.2	28.94
District No 17 Colorado	1,013.4	-	-	11,268	.5	9.0	64.74
District No 19 Wyoming	1,424.2	19.1	-	10,874	.6	5.8	65.19
District No 20 Utah	809.0	-	-	12,287	.5	7.7	83.23
District No 22 Montana	1,504.0	100.0	-	9,605	.4	4.2	46.94
Michigan	**21,197.4**	**50.3**	**8.8**	**11,953**	**1.4**	**8.7**	**46.34**
District No 1 Pennsylvania	649.0	92.9	13.7	12,658	2.8	9.6	46.45
District No 2 Pennsylvania	122.2	100.0	.8	12,386	1.4	10.5	53.64
District No 3 West Virginia	3,874.0	18.8	.5	12,669	2.9	11.3	34.88
District No 4 Ohio	1,472.4	-	-	11,220	2.3	10.6	40.08
District No 6 Kentucky	9,020.1	48.9	15.4	12,487	.8	9.1	55.19
District No 8 Tennessee	34.2	100.0	100.0	13,107	.8	5.3	61.41
District No 8 Virginia	49.0	38.8	100.0	13,169	.9	8.2	53.99
District No 8 West Virginia	1,248.5	47.7	5.1	13,151	1.3	7.5	53.37
District No 9 Kentucky	560.6	18.3	18.3	12,488	2.9	8.6	43.36
District No 10 Illinois	348.3	67.1	-	12,016	2.4	9.4	44.64
District No 11 Indiana	116.6	100.0	100.0	11,069	1.2	8.6	38.25
District No 22 Montana	3,702.5	100.0	-	9,566	.4	4.6	37.26

Source: Federal Power Commission Form 423.

Table 54. Destination and Origin of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982—Continued

Census Region / State of Destination / BOM District and State of Origin	Receipts 1000 Tons	Pct of Receipts Surface	Pct of Receipts Spot	Average Heat Value Btu per Pound	Av. Wt. Pct Sulfur	Av. Wt. Pct Ash	Average Delivered Price $ per Ton
East North Central							
Ohio	**45,303.0**	**58.5**	**23.4**	**11,553**	**2.5**	**12.0**	**39.82**
District No 1 Pennsylvania	.7	100.0	100.0	10,718	.8	12.1	37.00
District No 2 Pennsylvania	1,661.0	64.7	45.0	12,105	2.4	12.8	36.98
District No 3 West Virginia	327.1	100.0	66.9	12,188	1.2	12.4	35.04
District No 4 Ohio	23,446.1	62.6	25.0	11,525	3.5	12.7	38.05
District No 6 West Virginia	3,287.0	.2	4.0	12,209	3.7	9.3	37.98
District No 7 West Virginia	14.7	-	100.0	13,158	.7	6.7	55.18
District No 8 Kentucky	8,638.5	68.9	29.2	11,737	1.0	12.6	42.97
District No 8 Virginia	126.9	50.6	88.3	12,073	.9	9.2	44.37
District No 8 West Virginia	4,906.5	40.5	19.6	12,053	.8	12.1	46.27
District No 9 Kentucky	1,018.1	52.2	-	11,297	3.1	9.7	33.03
District No 11 Indiana	49.3	100.0	100.0	10,934	1.6	8.9	26.13
District No 19 Wyoming	1,827.1	100.0	-	8,010	.5	5.5	40.66
Wisconsin	**13,627.9**	**84.9**	**5.3**	**10,043**	**1.6**	**7.7**	**34.49**
District No 1 Pennsylvania	783.8	100.0	-	12,741	2.9	8.9	45.04
District No 2 Pennsylvania	39.4	28.9	71.1	13,153	1.5	5.9	46.01
District No 3 West Virginia	51.5	76.9	70.1	12,321	1.4	10.2	54.74
District No 4 Ohio	38.8	77.3	100.0	12,362	2.3	9.2	54.31
District No 6 West Virginia	73.5	-	100.0	12,552	3.1	9.7	38.94
District No 8 Kentucky	5.6	33.0	-	12,746	2.6	7.1	54.60
District No 8 West Virginia	3.0	100.0	-	12,885	.9	8.7	51.39
District No 9 Kentucky	2,093.3	92.0	.1	11,987	2.9	8.6	41.57
District No 10 Illinois	3,294.9	50.7	7.9	11,137	2.6	9.1	36.78
District No 11 Indiana	403.4	64.8	46.8	11,074	2.2	9.5	37.44
District No 19 Wyoming	4,378.6	100.0	2.1	8,345	.4	5.2	31.23
District No 22 Montana	2,462.3	100.0	.4	8,703	.8	8.5	26.27
West North Central	**78,792.6**	**93.4**	**3.8**	**8,994**	**1.4**	**8.7**	**23.61**
Iowa	**10,705.3**	**98.0**	**1.0**	**9,138**	**.9**	**6.7**	**28.66**
District No 10 Illinois	1,536.9	99.6	-	11,083	2.9	9.1	36.03
District No 11 Indiana	50.4	100.0	-	10,991	2.7	10.7	29.45
District No 12 Iowa	211.8	97.6	32.6	10,084	2.7	9.6	40.19
District No 14 Oklahoma	14.1	100.0	100.0	12,733	3.6	11.0	45.04
District No 15 Missouri	338.0	100.0	-	10,787	3.8	10.3	50.58
District No 15 Oklahoma	20.0	100.0	100.0	11,985	5.5	14.0	43.97
District No 17 Colorado	138.0	-	-	10,238	.6	9.1	66.45
District No 19 Wyoming	8,182.6	99.2	-	8,649	.4	5.8	25.32
District No 22 Montana	213.4	100.0	-	8,660	.7	10.1	30.72
Kansas	**11,178.7**	**96.6**	**4.8**	**8,873**	**1.1**	**8.6**	**23.80**
District No 10 Illinois	467.5	18.0	-	11,316	2.7	12.8	46.90
District No 15 Kansas	737.8	100.0	6.2	9,364	5.0	25.5	20.02
District No 15 Missouri	590.3	100.0	-	9,163	5.1	26.3	19.04
District No 15 Oklahoma	154.4	100.0	72.4	12,035	3.5	12.5	38.46
District No 17 Colorado	5.5	100.0	-	10,642	.6	11.8	40.70
District No 19 Wyoming	9,223.2	100.0	4.1	8,637	.4	5.8	22.98
Minnesota	**11,126.7**	**97.0**	**.5**	**8,807**	**.9**	**9.1**	**22.78**
District No 4 Ohio	2.3	-	-	13,000	2.4	7.3	66.56
District No 8 Kentucky	3.5	67.0	-	12,020	.8	8.0	47.00
District No 9 Kentucky	15.8	97.3	12.2	12,226	1.3	6.1	48.27
District No 10 Illinois	576.9	41.9	9.2	11,560	2.7	9.5	41.75
District No 11 Indiana	7.8	100.0	39.7	11,444	1.7	6.6	40.61
District No 13 Tennessee	26.9	100.0	-	12,300	1.4	8.8	47.97
District No 21 North Dakota	454.8	100.0	-	6,869	.8	7.8	19.48
District No 22 Montana	10,038.7	100.0	.0	8,718	.8	9.1	21.70
Missouri	**23,867.8**	**83.1**	**7.4**	**10,699**	**2.6**	**10.7**	**30.63**
District No 9 Kentucky	33.7	100.0	-	10,898	3.4	11.2	33.86
District No 10 Illinois	14,686.6	72.5	3.9	11,026	2.4	10.0	31.15
District No 11 Indiana	265.2	100.0	-	10,989	1.3	10.0	36.63
District No 15 Kansas	701.9	100.0	17.3	11,610	4.3	15.8	38.94
District No 15 Missouri	3,421.1	100.0	12.6	10,417	4.8	16.2	29.94
District No 15 Oklahoma	1,268.7	100.0	1.5	11,618	4.6	15.1	34.97
District No 17 Colorado	154.0	100.0	-	10,273	.4	6.1	43.80
District No 19 Wyoming	3,336.6	100.0	18.8	9,002	.4	5.7	24.54
Nebraska	**5,850.9**	**96.0**	**9.1**	**8,926**	**.4**	**5.6**	**20.67**
District No 15 Kansas	1.7	100.0	100.0	13,502	1.3	5.7	59.41
District No 15 Oklahoma	1.6	100.0	100.0	13,465	1.1	7.0	59.41
District No 16 Colorado	95.9	-	100.0	10,311	.4	9.0	35.96
District No 17 Colorado	136.6	100.0	55.1	10,394	.5	11.5	42.02
District No 19 Wyoming	5,480.7	99.9	6.6	8,777	.4	5.3	19.07
District No 20 Utah	134.4	-	-	12,379	.9	8.4	61.19
North Dakota	**13,846.0**	**100.0**	**-**	**6,643**	**.6**	**8.3**	**10.73**
District No 21 North Dakota	13,846.0	100.0	-	6,643	.6	8.3	10.73

Source: Federal Power Commission Form 423.

Table 54. Destination and Origin of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982—Continued

Census Region / State of Destination / BOM District and State of Origin	Receipts 1000 Tons	Pct of Receipts		Average Heat Value Btu per Pound	Av. Wt. Pct		Average Delivered Price $ per Ton
		Surface	Spot		Sulfur	Ash	
West North Central							
South Dakota	**2,217.2**	**100.0**	**-**	**6,343**	**0.8**	**7.8**	**14.53**
District No 19 Wyoming	218.4	100.0	-	8,034	.4	7.1	17.29
District No 21 North Dakota	1,998.8	100.0	-	6,159	.9	7.9	14.23
South Atlantic	**109,047.3**	**44.1**	**12.0**	**12,217**	**1.6**	**11.3**	**45.61**
Delaware	**1,930.2**	**62.9**	**29.9**	**12,609**	**1.3**	**10.7**	**54.00**
District No 1 Pennsylvania	1,250.7	96.0	35.5	12,514	1.6	11.9	49.94
District No 3 West Virginia	112.3	-	.6	13,276	.8	7.2	55.22
District No 8 Kentucky	7.0	-	100.0	12,391	.7	7.4	53.58
District No 8 Virginia	66.4	-	-	13,418	.7	6.5	57.47
District No 8 West Virginia	493.7	2.8	25.3	12,591	.7	9.3	63.56
Florida	**9,850.6**	**45.7**	**6.2**	**12,011**	**1.9**	**10.2**	**51.72**
District No 7 Virginia	3.6	-	100.0	13,970	.7	6.7	40.26
District No 8 Kentucky	3,416.6	43.9	3.8	12,118	1.5	10.0	58.03
District No 8 Virginia	282.3	6.4	-	12,358	.9	8.9	67.74
District No 8 West Virginia	723.0	-	-	12,603	.7	8.2	68.29
District No 9 Kentucky	2,929.6	78.7	.1	11,686	2.9	10.7	39.14
District No 10 Illinois	1,279.5	4.9	-	11,875	2.6	10.4	50.68
District No 11 Indiana	7.1	100.0	100.0	10,406	1.5	8.6	29.94
District No 13 Alabama	240.4	100.0	49.6	12,152	2.3	12.3	49.90
District No 15 Oklahoma	330.3	100.0	100.0	12,695	.8	8.1	53.41
District No 15 Texas	19.8	100.0	100.0	12,636	.7	8.6	52.93
District No 19 Wyoming	13.4	100.0	-	12,001	.7	8.2	67.95
Imported Coal South Africa	605.0	-	-	11,950	.7	12.7	51.68
Georgia	**21,169.2**	**61.8**	**5.0**	**11,996**	**2.0**	**10.0**	**44.64**
District No 8 Kentucky	9,781.9	67.4	4.8	12,273	1.6	10.9	45.55
District No 8 Tennessee	1,174.0	14.1	2.1	12,713	1.1	8.4	54.07
District No 8 Virginia	1,142.2	18.7	48.6	13,443	.8	6.9	67.00
District No 9 Kentucky	2,187.7	100.0	-	11,627	2.7	9.5	41.53
District No 10 Illinois	5,083.1	41.8	-	11,380	2.7	9.2	40.13
District No 11 Indiana	1,279.7	100.0	-	10,978	2.3	9.4	32.04
District No 13 Alabama	520.6	100.0	-	12,062	1.9	13.1	45.33
Maryland	**5,785.5**	**80.5**	**30.0**	**12,411**	**1.6**	**12.6**	**47.66**
District No 1 Maryland	1,132.0	91.5	19.5	12,307	1.8	13.7	47.17
District No 1 Pennsylvania	3,317.5	99.1	29.4	12,335	1.7	13.0	46.95
District No 1 West Virginia	7.0	100.0	100.0	12,523	1.8	10.1	40.22
District No 2 Pennsylvania	93.0	58.1	100.0	12,234	1.9	12.4	46.14
District No 3 West Virginia	1,212.0	22.7	36.2	12,714	1.2	10.3	50.12
District No 8 West Virginia	24.0	-	-	13,128	.8	8.0	53.59
North Carolina	**24,917.3**	**31.7**	**8.3**	**12,269**	**.9**	**11.2**	**46.09**
District No 7 Virginia	51.2	6.4	38.7	12,442	.7	13.4	40.31
District No 7 West Virginia	127.6	20.5	53.8	12,708	.9	12.2	40.68
District No 8 Kentucky	11,030.7	30.0	10.9	12,216	.9	10.3	46.98
District No 8 Tennessee	315.6	85.9	36.6	12,406	1.3	10.4	43.96
District No 8 Virginia	6,932.5	43.0	3.6	12,370	1.0	11.8	44.76
District No 8 West Virginia	6,459.7	20.4	6.4	12,235	.8	12.0	46.25
South Carolina	**8,544.7**	**44.2**	**19.8**	**12,382**	**1.3**	**10.5**	**47.25**
District No 8 Kentucky	7,407.8	43.8	20.1	12,361	1.4	10.4	47.46
District No 8 Tennessee	76.0	88.7	45.9	12,099	1.4	11.6	43.70
District No 8 Virginia	922.5	49.8	9.5	12,588	1.3	10.9	46.26
District No 8 West Virginia	138.3	5.9	58.0	12,260	1.0	12.8	44.62
Virginia	**6,798.5**	**39.2**	**58.1**	**12,487**	**.9**	**11.0**	**48.16**
District No 3 West Virginia	6.0	-	100.0	12,780	1.4	9.8	53.19
District No 7 Virginia	548.7	36.8	.9	11,961	.8	14.0	45.40
District No 8 Kentucky	2,936.1	36.2	91.3	12,622	1.0	9.1	48.50
District No 8 Tennessee	2.0	-	100.0	12,876	.8	8.9	52.99
District No 8 Virginia	2,191.7	25.1	35.8	12,337	.8	13.8	46.71
District No 8 West Virginia	1,114.0	76.1	42.1	12,684	.9	8.9	51.46
West Virginia	**30,051.4**	**34.2**	**4.8**	**12,225**	**1.9**	**12.6**	**41.90**
District No 1 Maryland	183.8	19.6	100.0	12,133	1.7	15.1	35.32
District No 1 Pennsylvania	33.5	100.0	26.9	12,356	1.0	14.2	40.26
District No 1 West Virginia	2,834.0	26.4	.6	11,903	1.9	16.4	37.18
District No 2 Pennsylvania	3.9	-	100.0	12,170	1.2	12.4	42.47
District No 3 West Virginia	11,770.6	39.8	4.3	12,573	2.5	11.5	39.63
District No 4 Ohio	15.4	64.3	28.6	11,986	3.0	7.5	38.51
District No 6 West Virginia	3,030.0	-	-	12,025	4.1	13.4	27.26
District No 7 Virginia	134.1	36.8	-	11,850	.8	13.3	46.88
District No 8 Kentucky	1,557.7	93.1	6.3	12,125	.9	9.8	50.17
District No 8 West Virginia	10,488.4	31.1	5.9	12,002	.7	13.0	48.79
East South Central	**65,746.9**	**53.6**	**8.6**	**11,723**	**2.1**	**11.4**	**42.00**
Alabama	**17,566.7**	**49.8**	**1.0**	**12,021**	**1.5**	**11.6**	**48.83**
District No 4 Ohio	2,536.3	100.0	-	11,508	2.3	12.2	44.39
District No 7 West Virginia	280.3	-	-	12,229	2.3	13.4	43.48
District No 8 Kentucky	314.2	69.8	6.3	11,923	1.2	11.9	46.78

Source: Federal Power Commission Form 423.

Table 54. Destination and Origin of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982—Continued

Census Region / State of Destination / BOM District and State of Origin	Receipts 1000 Tons	Pct of Receipts		Average Heat Value Btu per Pound	Av. Wt. Pct		Average Delivered Price $ per Ton
		Surface	Spot		Sulfur	Ash	
East South Central							
Alabama							
District No 8 Tennessee	7.5	99.9	100.0	11,831	2.2	13.3	46.89
District No 9 Kentucky	1,578.7	.6	.6	11,751	3.2	9.6	42.50
District No 11 Indiana	25.9	100.0	100.0	11,230	2.2	10.6	31.63
District No 13 Alabama	12,526.6	47.0	.9	12,151	1.2	11.7	50.84
District No 13 Tennessee	295.3	19.2	3.0	12,330	.8	12.6	44.24
Kentucky	**25,635.3**	**67.6**	**13.7**	**11,401**	**2.5**	**12.2**	**35.38**
District No 2 Pennsylvania	11.3	100.0	-	10,662	2.7	18.1	34.73
District No 3 West Virginia	1.6	100.0	100.0	11,910	2.7	10.0	23.22
District No 4 Ohio	480.4	100.0	19.4	11,252	2.5	14.7	34.40
District No 7 West Virginia	529.6	66.3	-	12,836	.7	9.0	58.23
District No 8 Kentucky	8,717.0	62.3	20.5	12,155	1.1	9.9	45.70
District No 8 Tennessee	208.8	96.5	100.0	11,806	2.1	13.6	34.82
District No 8 Virginia	282.8	-	-	13,504	.7	6.0	68.96
District No 8 West Virginia	266.0	100.0	1.1	12,358	.6	11.4	41.12
District No 9 Kentucky	12,415.1	63.9	9.1	10,823	3.7	14.6	27.70
District No 10 Illinois	69.3	3.9	100.0	10,550	3.5	9.2	21.10
District No 11 Indiana	2,653.4	100.0	7.8	11,048	2.7	9.5	29.33
Mississippi	**3,828.8**	**50.3**	**20.4**	**12,088**	**1.4**	**9.2**	**58.73**
District No 8 Kentucky	854.2	67.0	-	12,263	1.0	9.7	56.12
District No 9 Kentucky	490.1	100.0	100.0	12,259	2.7	8.2	42.73
District No 10 Illinois	291.8	100.0	100.0	12,203	2.7	9.0	41.26
District No 11 Indiana	24.0	100.0	-	12,196	1.5	7.8	50.73
District No 13 Alabama	549.0	100.0	.0	12,371	2.3	11.7	53.19
District No 17 Colorado	804.5	-	-	11,573	.6	9.4	66.32
District No 19 Wyoming	.2	100.0	-	8,603	.4	6.1	48.74
District No 20 Utah	815.0	-	-	12,076	.5	7.3	73.80
Tennessee	**18,716.0**	**38.7**	**6.5**	**11,811**	**2.1**	**10.5**	**41.22**
District No 4 Ohio	6.4	100.0	100.0	11,337	1.7	13.0	25.82
District No 7 West Virginia	150.8	-	-	11,996	2.3	12.9	42.33
District No 8 Kentucky	4,652.3	87.2	4.3	11,516	.9	13.5	40.04
District No 8 Tennessee	3,126.3	30.7	5.2	12,241	1.7	11.7	40.52
District No 8 Virginia	180.6	41.8	100.0	11,962	2.0	13.6	28.86
District No 9 Kentucky	9,938.0	15.2	2.1	11,855	2.7	8.6	43.10
District No 10 Illinois	11.6	-	100.0	11,600	2.0	6.9	34.43
District No 11 Indiana	604.7	100.0	66.7	11,072	1.8	9.7	27.59
District No 13 Alabama	32.4	95.5	75.9	11,236	1.8	13.1	30.18
District No 13 Georgia	4.4	-	100.0	12,338	1.5	11.7	26.07
District No 13 Tennessee	8.5	36.6	36.6	11,000	1.3	13.5	38.16
West South Central	**74,315.0**	**100.0**	**3.3**	**7,774**	**.6**	**9.4**	**25.58**
Arkansas	**7,401.1**	**100.0**	**-**	**8,523**	**.4**	**6.3**	**29.74**
District No 19 Wyoming	7,401.1	100.0	-	8,523	.4	6.3	29.74
Louisiana	**2,547.8**	**100.0**	**-**	**8,357**	**.4**	**6.2**	**37.98**
District No 19 Wyoming	2,547.8	100.0	-	8,357	.4	6.2	37.98
Oklahoma	**10,723.3**	**100.0**	**-**	**8,530**	**.4**	**5.3**	**28.08**
District No 19 Wyoming	10,723.3	100.0	-	8,530	.4	5.3	28.08
Texas	**53,642.8**	**100.0**	**4.5**	**7,492**	**.6**	**10.9**	**23.92**
District No 15 Texas	30,056.9	100.0	8.1	6,441	.8	15.5	11.14
District No 17 Colorado	2,035.9	100.0	-	10,680	.3	5.5	52.69
District No 19 Wyoming	16,177.3	100.0	-	8,564	.4	5.3	35.76
District No 22 Montana	5,372.7	100.0	-	8,932	.4	3.9	48.84
Mountain	**71,476.0**	**87.7**	**2.3**	**9,753**	**.5**	**11.4**	**19.80**
Arizona	**13,552.0**	**99.3**	**.4**	**10,543**	**.5**	**11.4**	**24.93**
District No 17 New Mexico	482.3	100.0	-	11,996	.5	15.3	48.31
District No 18 Arizona	7,465.0	100.0	-	10,993	.5	9.1	18.47
District No 18 New Mexico	5,505.7	100.0	1.0	9,793	.5	14.3	31.16
District No 20 Utah	99.0	-	-	11,282	.4	7.8	51.68
Colorado	**12,033.5**	**92.3**	**1.7**	**9,814**	**.4**	**7.6**	**21.37**
District No 17 Colorado	8,079.8	88.5	2.5	10,497	.4	8.8	22.84
District No 19 Wyoming	3,953.7	100.0	-	8,417	.3	5.1	18.38
Montana	**2,601.1**	**100.0**	**-**	**8,506**	**.7**	**6.4**	**9.79**
District No 22 Montana	2,601.1	100.0	-	8,506	.7	6.4	9.79
Nevada	**6,589.4**	**72.7**	**16.5**	**11,049**	**.5**	**10.2**	**25.96**
District No 18 Arizona	4,788.0	100.0	-	10,893	.6	10.4	19.44
District No 20 Utah	1,801.4	-	60.3	11,463	.5	9.6	43.27
New Mexico	**12,362.5**	**100.0**	**-**	**9,141**	**.8**	**21.1**	**14.35**
District No 18 New Mexico	12,362.5	100.0	-	9,141	.8	21.1	14.35
Utah	**5,994.0**	**-**	**5.5**	**11,541**	**.5**	**11.4**	**32.58**
District No 20 Utah	5,994.0	-	5.5	11,541	.5	11.4	32.58
Wyoming	**18,343.5**	**100.0**	**-**	**8,668**	**.5**	**8.3**	**13.68**
District No 19 Wyoming	18,343.5	100.0	-	8,668	.5	8.3	13.68
Pacific	**5,534.5**	**100.0**	**-**	**8,142**	**.7**	**13.5**	**23.73**

Source: Federal Power Commission Form 423.

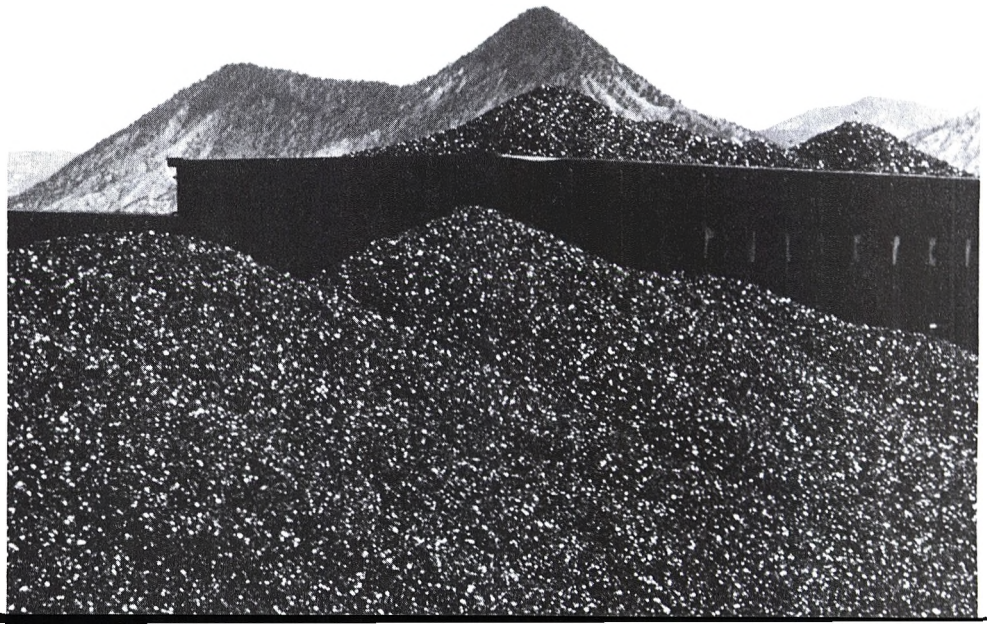
Table 54. Destination and Origin of Coal Received at Steam-Electric Plants of 25-Megawatt Capacity or Larger, 1982—Continued

Census Region State of Destination BOM District and State of Origin	Receipts 1000 Tons	Pct of Receipts		Average Heat Value Btu per Pound	Av. Wt. Pct		Average Delivered Price $ per Ton
		Surface	Spot		Sulfur	Ash	
Pacific							
Oregon	1,134.5	100.0	-	8,306	0.4	5.1	28.50
District No 19 Wyoming	1,134.5	100.0	-	8,306	.4	5.1	28.50
Washington	4,400.0	100.0	-	8,100	.8	15.7	22.50
District No 23 Washington	4,400.0	100.0	-	8,100	.8	15.7	22.50
Total	601,426.9	68.8	9.6	10,598	1.6	10.6	34.90

Note: Totals may not equal the sum of the component parts because of independent rounding.
Source: Federal Power Commission Form 423.

Quantity of Coal

Complying with 1982 Air Pollution Control Regulations for Sulfur



6. Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

The data presented in Chapter 6 are based on a comparison of the sulfur content of coal (on shipment-by-shipment basis) received by 183 companies and shown as receipts on FPC Form 423 in 1982 with the respective plant sulfur regulations contained in the State Implementation Plans (SIP). The sulfur regulations used in this analysis were provided from FPC Form 67 part IV for 1981.

In some instances the units in which sulfur regulations are specified (e.g., pounds of sulfur per million Btu, pounds of SO2 per million Btu) differ from those used for reporting the sulfur content of coal on Form 423 (percent sulfur by weight). In such instances the sulfur content of the coal was converted to conform to the units specified in the sulfur regulation. In addition, for particular plants, the sulfur regulations were calculated from available data in the SIP and do not reflect precisely the enforceable regulation for that plant. Such calculations were necessary in the following instances:

1. The sulfur regulations for coal-fired power plants in New York, Pennsylvania, Florida, Kentucky, New Jersey, South Dakota, Texas, Tennessee, and Wisconsin are enforced on an individual boiler basis. Where required (i.e., when a plant has multiple coal-fired boilers, each with a different sulfur limitation), an average limitation was computed for the entire plant.

2. Sulfur regulations for some units in Arizona and Georgia and for all units in Colorado, Illinois, Iowa, Kansas, Minnesota, Missouri, Montana, North Carolina, North Dakota, and Ohio are enforced on an individual stack basis. Where required, an average limitation was computed for the entire plant.

3. The sulfur regulations for some units in Arkansas, Oklahoma, Missouri, Texas, Wisconsin, and Wyoming are stated in ambient air quality and actual emission is quite complex. They depend upon topography of the surrounding area, stack heights, exit temperature of the flue gas, and wind and weather conditions. No violations of the National Ambient Air Quality Standards (NAAQS) were detected in these areas in 1982; consequently, the sulfur dioxide emission for such units was not regulated.

Based on the comparison of the coal's sulfur content with the plant's sulfur regulation, the total quantity of coal received by a power plant fell into one of the following categories:

1. All coal shipments to the plant met the 1982 sulfur regulations.

2. All coal shipments to the plant exceeded the 1982 sulfur regulations.

3. Some of the coal shipments met the sulfur regulation, while other shipments to the same plant exceeded the regulation.

Blending (i.e., mixing quantities of complying and noncomplying coal to reduce the average sulfur level) would not be required if each of the plant's coal shipments complied with sulfur limitations. Consequently, the quantity of coal complying with regulations "before blending" (column 5) remained the same "after blending" (column 9), and the averaged sulfur content of the complying coal represented the sulfur content of all coal shipments (column 4).

Blending would serve no useful purpose if each of the plant's coal shipments exceeded sulfur limitations. Consequently, the quantity of coal not complying with regulations "before blending" (column 7) remained the same "after blending" (column 10) and the weighted average sulfur content of the noncomplying coal represented the sulfur content of all coal shipments (column 4).

When the comparison of each shipment with SIP regulations revealed that some coal shipments to a plant met the sulfur regulations, while other shipments to the same plant did not meet the regulation, a blending routine was initiated to compute the weighted average sulfur content of the complying and noncomplying receipts for a second comparison with the plant's sulfur regulation. If the average sulfur content did not exceed the sulfur regulation, full compliance was achieved (i.e., the quantities of coal complying or not complying to the regulation "before blending" were summed to show all shipments complying "after blending"), and the average sulfur content of the complying and noncomplying coal shipments represented the sulfur content of all shipments (column 4). If the average sulfur content of the complying and noncomplying coal shipments exceeded the sulfur regulations, a blending routine was performed to "salvage" as much of the noncomplying coal as possible, using the following equation:

$$I = ((R - C) / (N - R)) \times Q$$

where:

I = the tonnage of noncomplying coal (thousand tons) that can be "salvaged," or equivalently, the incremental tonnage of complying coal (thousand tons) "after blending,"

R = the plant's 1982 sulfur regulation,

Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

C = the average sulfur content of the complying coal (same units as R),

N = the average sulfur content of the noncomplying coal (same units as R),

Q = the quantity of complying coal (thousand tons).

The quantity of coal complying with the sulfur regulation "before blending" was increased by the value of "I" to reflect the new quantity of complying coal "after blending." This blending routine simply adds coal from the noncomplying tonnage (column 7) to the complying tonnage (column 5) until the blend has reached the sulfur limits of the SIP regulations; i.e., the addition of one more tons of noncomplying coal to the blend would push the sulfur content of the entire blend above the SIP standard. Thus, the sulfur content of the complying blend (column 9) equals the SIP sulfur regulations (column 2), while the sulfur content of the residual noncomplying tonnage (column 10) is the same as that shown (column 8) for the noncomplying quantity.

Compliance with SO2 emission standards can also be achieved by SO2 removal from stack gases by Flue Gas Desulfurization (FGD) systems. All operational FGD systems on coal-fired electric plants in 1982 are indicated by the footnote indicator FGD. The indicators in column 10 correspond to those in Table 28, Chapter 2 of this report, which is a description of the characteristics of FGD systems.

In reviewing Table 55 it is necessary to remember that 'optimum blending' as this study assumes, is nearly impossible to attain. Quantities of noncomforming coal after blending does not imply illegality on the part of the utility. Many utilities attain compliance by use of an FGD system or other methods of containing the sulfur within the stack.

Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
Alabama Elec Coop Inc	-	844.9	-	5.6	-	839.4	-	5.6	839.4
Tombigee	[1] 1.20	839.4	2.32	.0	-	839.4	2.32	.0	[5] 839.4
Mc Williams	[1] 4.00	5.6	2.75	5.6	2.75	.0	-	5.6	.0
Alabama Power Co (SC)	-	11,337.4	-	11,277.1	-	60.3	-	11,337.4	.0
Barry	[1] 1.80	45.5	1.66	29.9	1.41	15.7	2.15	45.5	.0
Gadsden	[1] 4.00	240.8	1.79	234.8	1.69	6.1	5.55	240.8	.0
Gorgas #2 & #3	[1] 4.00	5,277.6	1.55	5,277.6	1.55	.0	-	5,277.6	.0
Greene	[1] 4.00	404.9	2.46	404.9	2.46	.0	-	404.9	.0
Gaston	[1] 4.00	4,025.1	2.80	4,025.1	2.80	.0	-	4,025.1	.0
Miller	[1] 1.20	1,343.4	.99	1,304.8	.98	38.6	1.23	1,343.4	.0
Ames, City of	-	130.3	-	125.3	-	5.0	-	130.3	.0
Ames	[1] 5.00	130.3	1.81	125.3	1.67	5.0	5.30	130.3	.0
Appalachian Power (AEP)	-	11,294.6	-	10,525.7	-	768.9	-	11,294.6	.0
Clinch River	[1] 2.64	1,517.8	1.20	1,517.8	1.20	.0	-	1,517.8	.0
Glen Lyn	[1] 2.64	543.7	1.41	543.7	1.41	.0	-	543.7	.0
Amos	[1] 1.60	5,889.8	1.28	5,123.6	1.22	766.2	1.69	5,889.8	.0
Kanawha River	[1] 1.60	912.2	1.27	909.5	1.27	2.7	1.61	912.2	.0
Mountaineer	[1] 1.20	2,431.1	.98	2,431.1	.98	.0	-	2,431.1	.0
Arizona Elec Power Coop Inc	-	973.4	-	.0	-	973.4	-	.0	973.4
Apache	[1] .80	973.4	1.15	.0	-	973.4	1.15	.0	[5] 973.4
Arizona Pub Serv	-	10,856.7	-	7,291.0	-	3,565.7	-	7,291.0	3,565.7
Cholla	[1] .80	3,565.7	.91	.0	-	3,565.7	.91	.0	[5] 3,565.7
Four Corners	[2] 16.00	7,291.0	1.80	7,291.0	1.80	.0	-	7,291.0	[5] .0
Arkansas Power and Lt (MSU)	-	5,763.1	-	5,763.1	-	.0	-	5,763.1	.0
Whitebluff	[2] 16.00	5,155.1	1.05	5,155.1	1.05	.0	-	5,155.1	.0
Independence	[2] 16.00	607.9	.86	607.9	.86	.0	-	607.9	.0
Assoc Elec Coop-Missouri	-	4,889.2	-	3,046.1	-	1,843.1	-	3,046.1	1,843.1
Madrid	[2] 16.00	3,046.1	6.13	3,046.1	6.13	.0	-	3,046.1	.0
Hill	[4] 1.20	1,843.1	3.95	.0	-	1,843.1	3.95	.0	1,843.1
Atlantic City Elec	-	612.7	-	612.7	-	.0	-	612.7	.0
England	[3] 3.50	612.7	3.00	612.7	3.00	.0	-	612.7	.0
Austin Utils	-	53.4	-	53.4	-	.0	-	53.4	.0
Austin	[3] 2.00	53.4	1.82	53.4	1.82	.0	-	53.4	.0
Baltimore Gas and Elec	-	623.0	-	623.0	-	.0	-	623.0	.0
Wagner	[3] 1.00	623.0	.86	623.0	.86	.0	-	623.0	.0
Basin Elec Power Coop	-	7,398.6	-	2,599.9	-	4,798.7	-	2,599.9	4,798.7
Leland Olds	[1] 3.00	2,399.8	1.66	2,399.8	1.66	.0	-	2,399.8	.0
Wm J Neal	[1] 3.00	200.1	.67	200.1	.67	.0	-	200.1	.0
Laramie River	[1] .20	4,798.7	.90	.0	-	4,798.7	.90	.0	[5] 4,798.7
Big Rivers Rural Elec Coop	-	3,505.5	-	2,008.6	-	1,496.9	-	2,008.6	1,496.9
Coleman	[1] 5.20	1,346.2	3.71	1,346.2	3.71	.0	-	1,346.2	.0
Reid	[1] 6.00	662.4	3.91	662.4	3.91	.0	-	662.4	.0
R D Green	[1] 1.20	1,496.9	6.79	.0	-	1,496.9	6.79	.0	[5] 1,496.9
Black Hills Power and Lt	-	534.2	-	350.3	-	183.9	-	429.3	104.9
Ben French	[2] 16.00	96.1	.96	96.1	.96	.0	-	96.1	.0
Kirk	[2] 16.00	122.3	1.23	122.3	1.23	.0	-	122.3	.0
Neil Simpson	[1] 1.20	132.1	1.27	48.5	1.09	83.5	1.38	79.0	53.1
Osage	[1] 1.20	183.8	1.25	83.4	1.10	100.4	1.37	131.9	51.9
Burlington Elec Department	-	39.6	-	.0	-	39.6	-	.0	39.6
Moran	[3] 1.00	39.6	1.70	.0	-	39.6	1.70	.0	39.6
Cajun Elec Power Coop	-	1,170.8	-	1,170.8	-	.0	-	1,170.8	.0
Big Cajun No.2	[1] 1.20	1,170.8	1.00	1,170.8	1.00	.0	-	1,170.8	.0
Cardinal Operating Co (AEP)	-	4,063.9	-	1,628.3	-	2,435.6	-	1,980.2	2,083.7

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423 and Federal Power Commission Form 67, Part IV.

Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)—Continued

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
Cardinal Operating Co (AEP)									
Cardinal	[1] 2.00	4,063.9	3.62	1,628.3	1.32	2,435.6	5.16	1,980.2	2,083.7
Carolina Power and Lt	-	10,034.6	-	9,947.9	-	86.7	-	10,034.6	.0
Asheville	[1] 2.30	890.1	1.79	884.1	1.78	6.0	3.08	890.1	.0
Cape Fear	[1] 2.30	600.1	1.67	553.0	1.60	47.1	2.54	600.1	.0
Lee	[1] 2.30	817.2	1.56	815.8	1.56	1.4	2.50	817.2	.0
Roxboro	[1] 2.30	5,604.7	1.09	5,604.7	1.09	.0	-	5,604.7	.0
Sutton	[1] 2.30	1,098.8	1.48	1,080.3	1.45	18.5	3.00	1,098.8	.0
Weatherspoon	[1] 2.30	361.6	1.58	360.5	1.58	1.1	2.72	361.6	.0
Robinson	[1] 3.50	391.7	1.72	379.1	1.66	12.6	3.58	391.7	.0
Mayo	[1] 1.20	270.4	1.02	270.4	1.02	.0	-	270.4	.0
Cent Elec Power Coop-MO	-	212.0	-	139.0	-	73.0	-	212.0	.0
Chamois	[1] 6.70	212.0	6.33	139.0	5.29	73.0	8.31	212.0	.0
Cent Illinois Lt	-	2,428.0	-	1,267.0	-	1,161.0	-	1,267.0	1,161.0
Edwards	[1] 1.80	1,179.0	1.00	1,179.0	1.00	.0	-	1,179.0	.0
Wallace	[1] 1.80	88.0	1.20	88.0	1.20	.0	-	88.0	.0
Duck Creek	[1] 1.20	1,161.0	6.52	.0	-	1,161.0	6.52	.0	[5] 1,161.0
Cent Illinois Pub Serv	-	5,140.6	-	3,955.1	-	1,185.5	-	3,979.5	1,161.1
Coffeen	[2] 16.00	2,326.9	8.12	2,326.9	8.12	.0	-	2,326.9	.0
Grand Tower	[2] 16.00	376.3	5.57	376.3	5.57	.0	-	376.3	.0
Hutsonville	[2] 16.00	324.9	4.97	324.9	4.97	.0	-	324.9	.0
Meredosia	[2] 16.00	647.6	4.82	647.6	4.82	.0	-	647.6	.0
Newton	[1] 1.20	1,464.9	4.14	279.4	.88	1,185.5	4.91	303.8	[5] 1,161.1
Cent Louisiana Elec	-	515.0	-	515.0	-	.0	-	515.0	.0
Rodemacher	[2] 16.00	515.0	.99	515.0	.99	.0	-	515.0	.0
Cent Operating Co (AEP)	-	1,751.9	-	1,740.9	-	11.0	-	1,751.9	.0
Sporn	[1] 3.20	1,751.9	1.65	1,740.9	1.62	11.0	6.18	1,751.9	.0
Cent Power and Lt (CSW)	-	2,035.9	-	2,035.9	-	.0	-	2,035.9	.0
Coleto Creek	[1] 1.20	2,035.9	.63	2,035.9	.63	.0	-	2,035.9	.0
Cent Tele and Util Corp-Col	-	144.2	-	117.9	-	26.4	-	144.2	.0
Clark	[1] 1.20	144.2	1.14	117.9	.98	26.4	1.83	144.2	.0
Cincinnati Gas and Elec Co	-	6,089.3	-	1,963.7	-	4,125.6	-	3,237.1	2,852.2
Beckjord	[4] 1.84	1,705.3	1.95	717.3	.92	988.0	2.69	1,495.6	209.7
Miami Fort	[4] 1.20	3,014.9	1.81	1,246.4	.62	1,768.5	2.65	1,741.5	1,273.4
East Bend	[1] 1.20	1,369.1	4.92	.0	-	1,369.1	4.92	.0	[5] 1,369.1
Cleveland Elec Illum Co	-	5,939.8	-	5,444.2	-	495.6	-	5,939.8	.0
Ashtabula	[1] 8.20	926.9	6.16	926.9	6.16	.0	-	926.9	.0
Avon Lake	[1] 6.09	1,960.1	4.41	1,668.4	4.10	291.7	6.19	1,960.1	.0
Eastlake	[1] 6.58	2,653.6	4.94	2,449.7	4.80	203.9	6.66	2,653.6	.0
Lake Shore	[1] 1.90	399.2	1.08	399.2	1.08	.0	-	399.2	.0
Col Springs Dept Pub Utils	-	1,451.9	-	1,451.9	-	.0	-	1,451.9	.0
Drake	[1] 1.20	901.2	.88	901.2	.88	.0	-	901.2	.0
Nixon	[1] 1.20	550.7	.73	550.7	.73	.0	-	550.7	.0
Colorado-Ute Elec Assn	-	3,658.8	-	3,658.8	-	.0	-	3,658.8	.0
Hayden	[1] 1.20	1,295.3	.80	1,295.3	.80	.0	-	1,295.3	.0
Nucla	[2] 16.00	60.3	1.44	60.3	1.44	.0	-	60.3	.0
Craig	[1] 1.20	2,303.2	.87	2,303.2	.87	.0	-	2,303.2	[5] .0
Columbia Water and Lt	-	81.7	-	81.7	-	.0	-	81.7	.0
Columbia	[2] 16.00	81.7	7.13	81.7	7.13	.0	-	81.7	.0
Columbus and So Ohio Elec	-	3,764.2	-	537.4	-	3,226.8	-	564.7	3,199.5
Conesville	[1] 1.20	3,199.5	7.13	.0	-	3,199.5	7.13	.0	[5] 3,199.5
Picway	[1] 9.90	249.3	6.35	248.1	6.33	1.2	10.46	249.3	.0
Poston	[1] 7.90	315.4	6.39	289.3	6.24	26.1	8.00	315.4	.0
Columbus Div of Elecity	-	4.0	-	.0	-	4.0	-	.0	4.0

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423 and Federal Power Commission Form 67, Part IV.

Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)—Continued

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
Columbus Div of Elecity									
Refuse & Coal	[1] 0.93	4.0	1.04	0.0	-	4.0	1.04	0.0	4.0
Commonwealth Edison-Indiana	-	1,504.0	-	1,504.0	-	.0	-	1,504.0	.0
State Line	[1] 1.20	1,504.0	.80	1,504.0	0.80	.0	-	1,504.0	.0
Commonwealth Edison	-	12,949.6	-	12,942.6	-	7.0	-	12,949.6	.0
Crawford	[1] 1.80	809.6	1.06	809.6	1.06	.0	-	809.6	.0
Joliet	[1] 1.80	2,538.0	1.10	2,538.0	1.10	.0	-	2,538.0	.0
Kincaid	[2] 16.00	2,879.0	6.71	2,879.0	6.71	.0	-	2,879.0	.0
Powerton	[1] 1.80	3,006.0	1.07	3,006.0	1.07	.0	-	3,006.0	[5] .0
Waukegan	[1] 1.80	1,099.0	1.09	1,099.0	1.09	.0	-	1,099.0	.0
Will County	[1] 1.80	2,341.0	1.10	2,334.0	1.08	7.0	6.58	2,341.0	.0
Fisk	[1] 1.80	277.0	1.10	277.0	1.10	.0	-	277.0	.0
Consumers Power	-	6,254.1	-	3,888.6	-	2,365.5	-	4,239.9	2,014.2
Cobb	[3] 1.00	904.9	2.63	12.0	.82	892.9	2.65	13.3	891.6
Karn/Weadock	[3] 1.00	1,643.7	.85	1,643.7	.85	.0	-	1,643.7	.0
Campbell	[3] 1.00	2,799.7	1.52	1,327.1	.66	1,472.6	2.30	1,677.1	1,122.6
Whiting	[3] 1.00	905.8	.77	905.8	.77	.0	-	905.8	.0
Coop Power Assoc	-	5,219.0	-	.0	-	5,219.0	-	.0	5,219.0
Coal Creek	[1] 1.20	5,219.0	1.69	.0	-	5,219.0	1.69	.0	[5] 5,219.0
Dairyland Power Coop	-	2,134.9	-	1,633.8	-	501.1	-	1,720.6	414.3
Alma/Madgett	[1] 1.20	1,260.6	2.19	759.5	.85	501.1	4.23	846.3	414.3
Genoa #3	[2] 16.00	798.7	4.42	798.7	4.42	.0	-	798.7	.0
Stoneman	[2] 16.00	75.6	6.16	75.6	6.16	.0	-	75.6	.0
Dayton Power and Lt Co	-	6,903.2	-	6,537.6	-	365.6	-	6,903.2	.0
Tait	[1] 1.80	21.8	.92	21.8	.92	.0	-	21.8	.0
Hutchings	[1] 1.60	513.0	.97	513.0	.97	.0	-	513.0	.0
Stuart	[1] 3.30	6,071.0	2.02	5,705.4	1.74	365.6	6.46	6,071.0	.0
Killen	[1] 1.20	297.4	.93	297.4	.93	.0	-	297.4	.0
Deepwater Operating Co (ACE)	-	82.4	-	82.4	-	.0	-	82.4	.0
Deepwater	[3] 1.00	82.4	.79	82.4	.79	.0	-	82.4	.0
Delmarva Power and Lt	-	1,930.2	-	1,835.4	-	94.7	-	1,930.2	.0
Edgemoor	[3] 1.00	133.5	.77	133.5	.77	.0	-	133.5	.0
Indian River	[3] 2.00	1,796.6	1.30	1,701.9	1.25	94.7	2.14	1,796.6	.0
Detroit Edison Co	-	12,311.7	-	11,962.7	-	349.0	-	12,311.7	.0
Conners Creek	[3] 1.00	129.0	.84	129.0	.84	.0	-	129.0	.0
Marysville	[3] 1.00	158.0	.84	150.0	.83	8.0	1.02	158.0	.0
Monroe	[4] 3.68	6,426.3	1.76	6,426.3	1.76	.0	-	6,426.3	.0
Pennsalt	[3] 1.00	120.4	.84	120.4	.84	.0	-	120.4	.0
River Rouge	[3] 1.00	1,035.0	.75	1,035.0	.75	.0	-	1,035.0	.0
St Clair	[3] 1.00	3,313.0	.61	3,010.0	.38	303.0	2.85	3,313.0	.0
Trenton Channel	[3] 1.00	1,130.0	.85	1,092.0	.78	38.0	2.91	1,130.0	.0
Duke Power	-	15,957.4	-	15,791.7	-	165.7	-	15,957.4	.0
Allen	[1] 2.30	2,147.7	1.48	2,147.7	1.48	.0	-	2,147.7	.0
Buck	[1] 2.30	529.5	1.64	529.5	1.64	.0	-	529.5	.0
Cliffside	[1] 2.30	1,502.9	1.77	1,408.5	1.72	94.5	2.53	1,502.9	.0
Dan River	[1] 2.30	306.0	1.60	306.0	1.60	.0	-	306.0	.0
Marshall	[1] 2.30	5,020.6	1.64	5,020.6	1.64	.0	-	5,020.6	.0
Riverbend	[1] 2.30	924.7	1.84	857.0	1.78	67.7	2.58	924.7	.0
Lee	[1] 2.30	683.0	1.76	679.4	1.76	3.5	2.64	683.0	.0
Belews Creek	[1] 2.30	4,843.0	1.56	4,843.0	1.56	.0	-	4,843.0	.0
Duquesne Lt	-	3,046.0	-	748.3	-	2,297.7	-	1,365.4	1,680.7
Elrama	[1] .60	1,081.8	3.93	.0	-	1,081.8	3.93	.0	[5] 1,081.8
Phillips	[1] .60	598.9	3.50	.0	-	598.9	3.50	.0	[5] 598.9
Cheswick	[1] 2.80	1,365.4	2.49	748.3	1.77	617.1	3.37	1,365.4	.0
East Kentucky Rural Elec Coop	-	1,900.0	-	1,282.0	-	618.0	-	1,295.0	605.0

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423 and Federal Power Commission Form 67, Part IV.

Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)—Continued

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
East Kentucky Rural Elec Coop									
Cooper	[4] 0.32	605.0	1.34	0.0	-	605.0	1.34	0.0	605.0
Dale	[1] 1.80	231.0	1.41	218.0	1.38	13.0	1.90	231.0	.0
Spurlock	[1] 6.00	1,064.0	1.73	1,064.0	1.73	.0	-	1,064.0	.0
Eastern Iowa Lt and Power	-	148.4	-	141.1	-	7.3	-	148.4	.0
Fair	[1] 6.00	148.4	4.60	141.1	4.52	7.3	6.10	148.4	.0
Elec Energy	-	2,241.4	-	2,241.4	-	.0	-	2,241.4	.0
Joppa	[2] 16.00	2,241.4	3.22	2,241.4	3.22	.0	-	2,241.4	.0
Empire Dist Elec	-	742.6	-	742.6	-	.0	-	742.6	.0
Riverton	[2] 16.00	136.3	4.70	136.3	4.70	.0	-	136.3	.0
Asbury	[2] 16.00	606.2	10.58	606.2	10.58	.0	-	606.2	.0
Florida Power Corp	-	2,625.8	-	2,625.8	-	.0	-	2,625.8	.0
Crystal River	[1] 4.50	2,625.8	2.30	2,625.8	2.30	.0	-	2,625.8	.0
Fremont Dept of Pub Utils	-	171.9	-	171.9	-	.0	-	171.9	.0
Wright	[1] 2.50	171.9	.93	171.9	.93	.0	-	171.9	.0
Gainesville-Alachua Cnty Utils	-	531.6	-	531.6	-	.0	-	531.6	.0
Deerhaven	[1] 2.75	531.6	1.09	531.6	1.09	.0	-	531.6	.0
Georgia Power (SC)	-	20,406.3	-	18,699.2	-	1,707.1	-	20,406.3	.0
Arkwright	[3] 3.00	198.0	2.03	198.0	2.03	.0	-	198.0	.0
Atkinson	[3] 3.00	805.3	2.64	805.3	2.64	.0	-	805.3	.0
Bowen	[3] 3.00	7,268.9	1.89	7,268.9	1.89	.0	-	7,268.9	.0
Hammond	[3] 3.00	1,204.8	1.77	1,204.8	1.77	.0	-	1,204.8	.0
Harllee Branch	[3] 3.00	2,117.6	1.34	2,117.6	1.34	.0	-	2,117.6	.0
Mitchell	[3] 3.00	479.2	1.26	479.2	1.26	.0	-	479.2	.0
Yates	[3] 3.00	2,744.0	2.45	2,114.3	2.23	629.7	3.18	2,744.0	.0
Wansley	[3] 3.00	4,478.5	2.54	3,434.8	2.34	1,043.7	3.19	4,478.5	.0
Scherer	[3] .70	1,110.0	.65	1,076.3	.65	33.7	.80	1,110.0	.0
Grand Island Utils	-	51.2	-	51.2	-	.0	-	51.2	.0
Platte	[1] 1.20	51.2	1.00	51.2	1.00	.0	-	51.2	.0
Grand River Dam Authority	-	1,679.5	-	1,679.5	-	.0	-	1,679.5	.0
GRDA 1	[1] 1.20	1,679.5	.89	1,679.5	.89	.0	-	1,679.5	.0
Greenwood Utils	-	55.0	-	55.0	-	.0	-	55.0	.0
Henderson Station	[1] 4.80	55.0	2.62	55.0	2.62	.0	-	55.0	.0
Gulf Power	-	2,411.9	-	2,411.9	-	.0	-	2,411.9	.0
Crist	[1] 5.90	1,417.7	4.28	1,417.7	4.28	.0	-	1,417.7	.0
Scholtz	[1] 6.17	90.8	5.08	90.8	5.08	.0	-	90.8	.0
Smith	[1] 6.17	903.4	2.32	903.4	2.32	.0	-	903.4	.0
Gulf States Utils	-	862.0	-	659.0	-	203.0	-	862.0	.0
Nelson	[1] 1.20	862.0	1.08	659.0	1.01	203.0	1.31	862.0	.0
Hamilton, City of	-	135.5	-	120.2	-	15.3	-	135.5	.0
Hamilton	[1] 1.40	135.5	1.17	120.2	1.13	15.3	1.47	135.5	.0
Hastings Utils	-	116.8	-	116.8	-	.0	-	116.8	.0
Hastings	[1] 2.50	116.8	1.10	116.8	1.10	.0	-	116.8	.0
Henderson Mun Pwr and Lt	-	119.0	-	117.0	-	2.0	-	119.0	.0
Henderson	[1] 5.20	119.0	3.36	117.0	3.32	2.0	5.41	119.0	.0
Holland Bd of Pub Wks	-	95.4	-	50.7	-	44.7	-	95.4	.0
James De Young	[3] 1.50	95.4	1.41	50.7	.99	44.7	1.89	95.4	.0
Holyoke Water Power (NU)	-	387.5	-	387.5	-	.0	-	387.5	.0
Mount Tom	[4] 2.20	387.5	1.00	387.5	1.00	.0	-	387.5	.0
Hoosier Energy Div-Indiana Rec	-	1,185.2	-	520.7	-	664.5	-	520.7	664.5

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423 and Federal Power Commission Form 67, Part IV.

Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)—Continued

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
Hoosier Energy Div-Indiana Rec									
Frank E Ratts	[2] 16.00	520.7	5.77	520.7	5.77	0.0	-	520.7	0.0
Merom	[1] 1.20	664.5	6.16	.0	-	664.5	6.16	.0	[6] 664.5
Houston Ltng and Power	-	6,287.0	-	.0	-	6,287.0	-	.0	6,287.0
Parish	[1] .36	6,287.0	.92	.0	-	6,287.0	.92	.0	6,287.0
Illinois Power	-	6,837.1	-	6,830.8	-	6.3	-	6,837.1	.0
Baldwin	[1] 6.00	4,642.0	5.45	4,642.0	5.45	.0	-	4,642.0	.0
Havana	[1] 1.20	326.6	1.04	326.6	1.04	.0	-	326.6	.0
Hennepin	[2] 16.00	542.8	4.27	542.8	4.27	.0	-	542.8	.0
Vermilion	[1] 6.00	551.0	4.34	544.7	4.32	6.3	6.30	551.0	.0
Wood River	[1] 1.80	774.6	1.24	774.6	1.24	.0	-	774.6	.0
Independence Pwr & Lt, City of	-	336.7	-	182.4	-	154.3	-	336.7	.0
Missouri	[1] 6.30	38.6	5.55	37.4	5.52	1.2	6.38	38.6	.0
Blue Valley	[1] 6.30	298.1	6.20	145.0	5.60	153.1	6.77	298.1	.0
Indiana & Michigan Elec (AEP)	-	2,237.9	-	1,242.1	-	995.8	-	1,303.5	934.4
Breed	[4] 9.57	433.0	3.55	433.0	3.55	.0	-	433.0	.0
Tanners Creek	[1] 1.20	1,804.9	4.24	809.1	.75	995.8	7.08	870.5	934.4
Indiana-Kentucky Elec Corp	-	4,008.0	-	1,257.0	-	2,751.0	-	1,804.1	2,203.9
Clifty Creek	[1] 6.00	4,008.0	6.25	1,257.0	5.80	2,751.0	6.46	1,804.1	2,203.9
Indianapolis Power and Lt	-	5,431.0	-	4,074.0	-	1,357.0	-	4,074.0	1,357.0
Stout	[4] .35	1,357.0	1.78	.0	-	1,357.0	1.78	.0	1,357.0
Pritchard	[4] 6.00	393.0	2.26	393.0	2.26	.0	-	393.0	.0
Perry	[4] 6.00	402.0	2.14	402.0	2.14	.0	-	402.0	.0
Petersburg	[4] 6.00	3,279.0	1.95	3,279.0	1.95	.0	-	3,279.0	[5] .0
Interstate Power	-	1,594.3	-	1,492.0	-	102.3	-	1,594.3	.0
Dubuque	[1] 6.00	140.6	3.81	140.6	3.81	.0	-	140.6	.0
Lansing	[1] 1.20	835.7	1.15	749.9	.87	85.8	3.55	835.7	.0
Kapp	[1] 6.00	530.7	4.44	514.2	4.38	16.5	6.26	530.7	.0
Fox Lake	[3] 2.00	87.3	.72	87.3	.72	.0	-	87.3	.0
Iowa Elec Lt and Power	-	590.0	-	357.0	-	233.0	-	590.0	.0
6Th St	[1] 5.00	27.0	1.60	26.0	1.34	1.0	6.27	27.0	.0
Prairie Creek #4	[1] 5.00	373.0	4.41	155.0	2.05	218.0	6.09	373.0	.0
Sutherland	[1] 8.00	190.0	7.43	176.0	7.38	14.0	8.02	190.0	.0
Iowa Power and Lt	-	2,422.0	-	2,422.0	-	.0	-	2,422.0	.0
Council Bluffs	[1] 5.00	2,422.0	.83	2,422.0	.83	.0	-	2,422.0	.0
Iowa Pub Serv	-	3,246.5	-	2,682.3	-	564.3	-	3,246.5	.0
George Neal	[1] 1.20	3,246.5	1.00	2,682.3	.82	564.3	1.87	3,246.5	.0
Iowa Southern Utils	-	1,859.5	-	1,780.6	-	78.9	-	1,859.5	.0
Burlington	[1] 5.00	298.7	4.84	219.8	4.66	78.9	5.36	298.7	.0
Ottumwa	[1] 1.20	1,560.8	.71	1,560.8	.71	.0	-	1,560.8	.0
Iowa-Illinois Gas and Elec	-	347.7	-	347.7	-	.0	-	347.7	.0
Riverside	[1] 6.00	218.9	5.32	218.9	5.32	.0	-	218.9	.0
Louisa	[1] .96	128.8	.79	128.8	.79	.0	-	128.8	.0
Jamestown Bd of Pub Utils	-	133.9	-	46.4	-	87.4	-	80.9	53.0
Samuel A Carlson	1.90	133.9	1.97	46.4	1.77	87.4	2.08	80.9	53.0
Kansas City Bd Pub Utils	-	1,226.8	-	695.6	-	531.2	-	695.6	531.2
Kaw	[4] 1.50	179.3	2.96	.0	-	179.3	2.96	.0	179.3
Quindaro	[4] 1.50	351.9	2.35	.0	-	351.9	2.35	.0	351.9
Nearman	[4] 1.50	695.6	.43	695.6	.43	.0	-	695.6	.0
Kansas City Power and Lt	-	8,002.6	-	6,489.6	-	1,513.0	-	6,813.8	1,188.8
La Cygne	[1] 1.20	3,547.3	4.52	2,264.8	.79	1,282.5	11.11	2,358.5	[6] 1,188.9
Grand Ave	[2] 16.00	45.3	6.23	45.3	6.23	.0	-	45.3	.0
Hawthorne	[2] 16.00	662.3	4.11	662.3	4.11	.0	-	662.3	[5] .0
Montrose	[1] 12.90	1,326.7	12.13	1,096.2	11.95	230.5	12.99	1,326.7	.0
Iatan	[1] 1.20	2,421.0	.80	2,421.0	.80	.0	-	2,421.0	.0

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Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)—Continued

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
Kansas Power and Lt Co	-	**6,268.3**	-	**6,268.3**	-	**0.0**	-	**6,268.3**	**0.0**
Lawrence	[4] 1.50	848.5	0.65	848.5	0.65	.0	-	848.5	[5] .0
Tecumseh	[4] 1.50	347.4	.65	347.4	.65	.0	-	347.4	.0
Jeffery Energy Center	[1] 1.20	5,072.4	.85	5,072.4	.85	.0	-	5,072.4	[5] .0
Kentucky Power (AEP)	-	**2,144.0**	-	**2,144.0**	-	**.0**	-	**2,144.0**	**.0**
Big Sandy	[1] 6.00	2,144.0	1.70	2,144.0	1.70	.0	-	2,144.0	.0
Kentucky Utils	-	**4,276.3**	-	**3,040.4**	-	**1,235.9**	-	**3,083.4**	**1,192.9**
Brown	[1] 6.00	1,157.8	3.43	1,155.4	3.42	2.4	6.46	1,157.8	.0
Ghent	[1] 1.20	2,622.0	3.23	1,409.7	1.07	1,212.2	5.75	1,450.4	1,171.6
Green River	[1] 4.60	461.8	3.91	461.8	3.91	.0	-	461.8	[5] .0
Pineville	[1] 2.30	13.4	1.43	13.4	1.43	.0	-	13.4	.0
Tyrone	[1] 1.50	21.3	1.97	.0	-	21.3	1.97	.0	21.3
Lake Superior Dist Power	-	**77.7**	-	**77.7**	-	**.0**	-	**77.7**	**.0**
Bay Front	[2] 16.00	77.7	2.67	77.7	2.67	.0	-	77.7	.0
Lakeland, City of	-	**321.0**	-	**.0**	-	**321.0**	-	**.0**	**321.0**
Mcintosh	[1] 1.20	321.0	3.37	.0	-	321.0	3.37	.0	321.0
Lansing Bd of Water and Lt	-	**1,003.3**	-	**994.9**	-	**8.4**	-	**1,003.3**	**.0**
Eckert	[3] 1.00	495.4	.74	493.1	.74	2.3	1.04	495.4	.0
Erickson	[3] 1.00	458.5	.74	452.4	.74	6.1	1.04	458.5	.0
Ottawa	[3] 1.00	49.4	.78	49.4	.78	.0	-	49.4	.0
Logansport Indiana Elec Dept	-	**63.6**	-	**63.6**	-	**.0**	-	**63.6**	**.0**
Logansport	[2] 16.00	63.6	1.90	63.6	1.90	.0	-	63.6	.0
Louisville Gas and Elec	-	**3,392.3**	-	**.0**	-	**3,392.3**	-	**.0**	**3,392.3**
Cane Run	[1] 1.20	1,084.4	5.90	.0	-	1,084.4	5.90	.0	[5] 1,084.4
Mill Creek	[1] 1.20	2,307.9	6.43	.0	-	2,307.9	6.43	.0	[5] 2,307.9
Lower Colorado River Authority	-	**3,966.0**	-	**3,966.0**	-	**.0**	-	**3,966.0**	**.0**
Sam Seymour/Fayette	[1] 1.20	3,966.0	.81	3,966.0	.81	.0	-	3,966.0	.0
Madison Gas and Elec	-	**76.2**	-	**76.2**	-	**.0**	-	**76.2**	**.0**
Blount	[2] 16.00	76.2	2.44	76.2	2.44	.0	-	76.2	.0
Manitowoc Pub Utils	-	**63.1**	-	**.0**	-	**63.1**	-	**.0**	**63.1**
Manitowoc	[1] 1.20	63.1	2.81	.0	-	63.1	2.81	.0	63.1
Marquette Bd of Lt and Power	-	**151.1**	-	**73.9**	-	**77.2**	-	**80.8**	**70.3**
Shiras	[1] 1.20	151.1	1.68	73.9	1.10	77.2	2.24	80.8	70.3
Marshall Mun Utils	-	**35.0**	-	**35.0**	-	**.0**	-	**35.0**	**.0**
Marshall	[2] 16.00	35.0	4.91	35.0	4.91	.0	-	35.0	.0
Marshfield Elec and Wtr Dept	-	**54.0**	-	**.0**	-	**54.0**	-	**.0**	**54.0**
Wildwood	[1] 1.20	54.0	4.07	.0	-	54.0	4.07	.0	54.0
Menasha Elec and Wtr Utils	-	**23.9**	-	**23.9**	-	**.0**	-	**23.9**	**.0**
Menasha	[2] 16.00	23.9	3.26	23.9	3.26	.0	-	23.9	.0
Metropolitan Edison (GPS)	-	**1,126.9**	-	**1,061.9**	-	**65.0**	-	**1,126.9**	**.0**
Portland	[1] 3.70	599.8	3.32	535.9	3.26	63.9	3.80	599.8	.0
Titus	[1] 2.80	527.1	2.30	526.0	2.30	1.1	3.48	527.1	.0
Michigan St University	-	**158.7**	-	**70.9**	-	**87.8**	-	**106.9**	**51.8**
Plant #65	[1] 1.20	158.7	1.32	70.9	1.01	87.8	1.57	106.9	51.8
Minnesota Power and Lt	-	**2,932.2**	-	**2,932.2**	-	**.0**	-	**2,932.2**	**.0**
Aurora	[4] 4.00	25.6	1.20	25.6	1.20	.0	-	25.6	.0
Boswell	[4] 4.00	2,906.6	.95	2,906.6	.95	.0	-	2,906.6	[5] .0
Minnkota Power Coop	-	**2,983.9**	-	**2,983.9**	-	**.0**	-	**2,983.9**	**.0**
Young	[1] 3.00	2,983.9	1.87	2,983.9	1.87	.0	-	2,983.9	[5] .0
Mississippi Power (SC)	-	**2,919.4**	-	**2,892.3**	-	**27.1**	-	**2,919.4**	**.0**

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423 and Federal Power Commission Form 67, Part IV.

Quantity of Coal Complying With 1982 Air Pollution Regulations for Sulfur

Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)—Continued

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
Mississippi Power (SC)									
Watson	[1] 4.80	1,299.8	4.20	1,272.8	4.18	27.0	4.93	1,299.8	0.0
Jackson County	[1] 1.20	1,619.6	.97	1,619.5	.97	.1	1.73	1,619.6	.0
Mississippi Pwr and Lt (MSU)	-	.5	-	.5	-	.0	-	.5	.0
Delta	[4] 4.80	.5	.53	.5	.53	.0	-	.5	.0
Missouri Pub Serv	-	859.8	-	859.8	-	.0	-	859.8	.0
Sibley	[1] 9.00	859.8	6.05	859.8	6.05	.0	-	859.8	.0
Monongahela Power (APS)	-	11,104.8	-	6,666.6	-	4,438.2	-	8,392.8	2,711.9
Albright	[1] 3.20	702.6	2.95	628.8	2.90	73.8	3.34	702.6	.0
Ft Martin	[1] 3.10	2,284.6	2.97	1,207.0	1.45	1,077.6	4.68	2,284.6	.0
Harrison	[1] 5.12	4,628.7	4.41	4,058.3	4.31	570.4	5.16	4,628.7	.0
Rivesville	[1] 2.00	322.9	1.59	318.5	1.58	4.4	2.06	322.9	.0
Willow Island	[1] 2.70	454.0	1.87	454.0	1.87	.0	-	454.0	.0
Pleasants	[1] 1.20	2,711.9	4.93	.0	-	2,711.9	4.93	.0	[5] 2,711.9
Montana Power Co	-	2,424.0	-	.0	-	2,424.0	-	.0	2,424.0
Corette	[1] 1.00	321.0	1.60	.0	-	321.0	1.60	.0	321.0
Colstrip	[1] 1.20	2,103.0	1.56	.0	-	2,103.0	1.56	.0	[5] 2,103.0
Montana-Dakota Utils	-	2,325.0	-	610.8	-	1,714.2	-	656.0	1,669.0
Heskett	[1] 3.00	478.9	2.24	433.7	2.12	45.2	3.34	478.9	.0
Lewis and Clark	[4] 2.00	177.1	.73	177.1	.73	.0	-	177.1	.0
Coyote	[1] 1.20	1,669.0	2.41	.0	-	1,669.0	2.41	.0	[5] 1,669.0
Moorhead Pub Serv Dept	-	.7	-	.7	-	.0	-	.7	.0
Moorhead	[3] 2.00	.7	.81	.7	.81	.0	-	.7	.0
Muscatine Power and Water	-	382.6	-	.0	-	382.6	-	.0	382.6
Muscatine	[4] .44	382.6	2.71	.0	-	382.6	2.71	.0	382.6
Nebraska Pub Power Sys	-	3,392.4	-	3,392.4	-	.0	-	3,392.4	.0
Kramer	[1] 2.50	95.9	.84	95.9	.84	.0	-	95.9	.0
Sheldon	[1] 2.50	157.1	1.50	157.1	1.50	.0	-	157.1	.0
Gerald Gentleman	[1] 1.20	3,139.5	.80	3,139.5	.80	.0	-	3,139.5	.0
Nevada Power	-	1,085.8	-	.0	-	1,085.8	-	.0	1,085.8
Gardner	[1] .29	1,085.8	.88	.0	-	1,085.8	.88	.0	[5] 1,085.8
New England Power (NEES)	-	2,701.5	-	2,701.5	-	.0	-	2,701.5	.0
Brayton	[4] 2.31	2,159.4	.94	2,159.4	.94	.0	-	2,159.4	.0
Salem Harbor	[4] 1.21	542.1	1.03	542.1	1.03	.0	-	542.1	.0
New Ulm, Pub Utils Comm	-	52.8	-	52.8	-	.0	-	52.8	.0
New Ulm	[2] 16.00	52.8	2.99	52.8	2.99	.0	-	52.8	.0
New York State Elec and Gas	-	2,528.0	-	2,521.8	-	6.2	-	2,528.0	.0
Goudey	[4] 2.50	410.2	1.56	410.2	1.56	.0	-	410.2	.0
Greenidge	[4] 2.50	617.9	1.69	614.0	1.68	3.9	2.53	617.9	.0
Hickling	[4] 2.50	383.7	.98	381.4	.97	2.3	2.90	383.7	.0
Jennison	[4] 2.50	320.4	.87	320.4	.87	.0	-	320.4	.0
Milliken	[4] 2.50	795.8	1.40	795.8	1.40	.0	-	795.8	.0
Niagra-Mohawk Power	-	3,130.0	-	2,704.0	-	426.0	-	3,130.0	.0
Huntley	[4] 1.40	1,682.0	1.23	1,499.0	1.18	183.0	1.65	1,682.0	[5] .0
Dunkirk	[4] 1.90	1,448.0	1.70	1,205.0	1.64	243.0	2.00	1,448.0	.0
Northern Indiana Pub Serv	-	4,170.1	-	3,170.9	-	999.2	-	4,170.1	.0
Bailly	[1] 6.00	868.4	5.51	685.9	5.34	182.5	6.14	868.4	.0
Mitchell	[1] 1.20	778.8	1.00	778.8	1.00	.0	-	778.8	[5] .0
Michigan City	[1] 5.30	1,094.6	4.74	373.7	2.82	720.9	5.73	1,094.6	.0
Schahfer	[1] 1.20	1,428.3	.97	1,332.5	.88	95.8	2.23	1,428.3	.0
Northern Michigan Elec Coop	-	130.5	-	51.6	-	78.8	-	61.8	68.6
Advance	[3] 1.50	130.5	1.68	51.6	1.43	78.8	1.85	61.8	68.6
Northern States Power	-	7,150.5	-	2,181.4	-	4,969.1	-	2,326.2	4,824.3

See notes and footnotes at end of table.
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Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)—Continued

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
Northern States Power									
Black Dog	[4] 3.00	369.5	1.68	315.6	1.45	53.9	3.06	369.5	0.0
High Bridge	[4] 3.00	303.3	1.61	249.0	1.25	54.3	3.27	303.3	.0
King	[4] 3.00	1,083.7	.94	1,047.1	.87	36.6	3.01	1,083.7	.0
Riverside	[4] 3.00	569.7	.82	569.7	.82	.0	-	569.7	[5] .0
Sherburn Cty	[1] 1.20	4,824.3	1.65	.0	-	4,824.3	1.65	.0	[5] 4,824.3
Ohio Edison	-	6,302.3	-	5,230.2	-	1,072.1	-	6,294.3	8.0
Edgewater	[1] 3.40	244.4	2.62	243.8	2.62	.6	4.10	244.4	.0
Gorge Steam	[1] 4.07	165.9	4.12	95.2	3.47	70.7	4.99	157.9	8.0
Mad River	[1] 4.60	59.5	1.59	59.5	1.59	.0	-	59.5	.0
Niles	[1] 5.70	595.7	4.25	563.6	4.09	32.1	7.07	595.7	.0
Burger	[1] 9.02	1,048.1	6.27	1,048.1	6.27	.0	-	1,048.1	.0
Sammis	[1] 4.46	3,868.1	3.09	2,899.4	2.35	968.7	5.29	3,868.1	.0
Toronto	[1] 8.10	320.6	5.40	320.6	5.40	.0	-	320.6	.0
Ohio Power (AEP)	-	13,314.5	-	12,109.2	-	1,205.3	-	13,153.0	161.5
Muskingum	[1] 8.60	3,367.2	8.05	3,119.6	7.99	247.6	8.82	3,367.2	.0
Kammer	[1] 6.80	1,848.6	6.82	890.9	6.63	957.7	6.99	1,687.1	161.5
Mitchell	[1] 7.50	3,026.0	4.12	3,026.0	4.12	.0	-	3,026.0	.0
Gavin	[1] 9.50	5,072.7	4.88	5,072.7	4.88	.0	-	5,072.7	.0
Ohio Valley Elec Coop	-	3,065.0	-	3,065.0	-	.0	-	3,065.0	.0
Kyger Creek	[1] 8.20	3,065.0	6.24	3,065.0	6.24	.0	-	3,065.0	.0
Oklahoma Gas and Elec	-	5,277.5	-	5,277.5	-	.0	-	5,277.5	.0
Muskogee	[1] 1.20	2,748.6	.80	2,748.6	.80	.0	-	2,748.6	.0
Sooner	[1] 1.20	2,528.9	.81	2,528.9	.81	.0	-	2,528.9	.0
Omaha Pub Power Dist	-	2,118.6	-	2,118.6	-	.0	-	2,118.6	.0
North Omaha	[1] 2.50	598.6	1.42	598.6	1.42	.0	-	598.6	.0
Nebraska City	[1] 1.20	1,520.0	.84	1,520.0	.84	.0	-	1,520.0	.0
Orrville Mun Utils	-	91.7	-	91.7	-	.0	-	91.7	.0
Vine Street	[1] 7.00	91.7	5.61	91.7	5.61	.0	-	91.7	.0
Otter Tail Power	-	2,452.9	-	2,042.4	-	410.5	-	2,452.9	.0
Hoot Lake	[1] 4.00	454.1	2.42	454.1	2.42	.0	-	454.1	.0
Big Stone	[1] 3.00	1,998.8	2.87	1,588.3	2.79	410.5	3.18	1,998.8	.0
Owensboro Mun Utils	-	1,058.0	-	1,058.0	-	.0	-	1,058.0	.0
Smith	[1] 6.00	1,058.0	4.91	1,058.0	4.91	.0	-	1,058.0	.0
Pacific Power and Lt	-	15,589.0	-	5,438.0	-	10,151.0	-	6,224.0	9,365.0
Centralia	[5] 16.00	4,400.0	1.87	4,400.0	1.87	.0	-	4,400.0	.0
Johnston	[1] 1.20	3,352.0	1.25	1,038.0	1.12	2,314.0	1.31	1,824.0	1,528.0
Wyodak	[1] .50	1,812.0	1.26	.0	-	1,812.0	1.26	.0	1,812.0
Jim Bridger	[1] .30	6,025.0	1.29	.0	-	6,025.0	1.29	.0	[5] 6,025.0
Painesville Elec Lt Dept	-	69.8	-	69.8	-	.0	-	69.8	.0
Painesville	[1] 5.20	69.8	3.68	69.8	3.68	.0	-	69.8	.0
Pella Mun Power and Lt	-	71.2	-	30.4	-	40.8	-	45.2	26.1
Pella	[1] 6.00	71.2	6.29	30.4	5.61	40.8	6.80	45.2	26.1
Pennsylvania Elec (GPS)	-	13,902.8	-	10,008.8	-	3,894.0	-	10,977.2	2,925.6
Conemaugh	[1] 4.00	2,668.1	3.62	2,668.1	3.62	.0	-	2,668.1	.0
Front St	[1] 4.00	282.0	3.16	268.0	3.09	14.0	4.45	282.0	.0
Homer City	[1] 2.87	5,233.0	3.42	1,363.0	2.18	3,870.0	3.86	2,307.4	2,925.6
Seward	[1] 4.00	459.0	2.71	459.0	2.71	.0	-	459.0	.0
Shawville	[1] 4.00	1,426.0	3.29	1,423.0	3.29	3.0	5.21	1,426.0	.0
Warren	[1] 4.00	201.0	3.07	197.0	3.04	4.0	4.51	201.0	.0
Williamsburg	[1] 4.00	91.0	3.06	88.0	3.02	3.0	4.32	91.0	.0
Keystone	[1] 4.00	3,542.6	2.60	3,542.6	2.60	.0	-	3,542.6	.0
Pennsylvania Power and Lt	-	9,351.0	-	9,338.0	-	13.0	-	9,351.0	.0
Brunner Island	[1] 4.00	3,654.0	3.32	3,644.0	3.32	10.0	4.98	3,654.0	.0
Holtwood	[1] 4.00	197.0	1.41	197.0	1.41	.0	-	197.0	.0
Martins Creek	[1] 4.00	672.0	3.32	672.0	3.32	.0	-	672.0	.0

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Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
Pennsylvania Power and Lt									
Montour	[1] 4.00	3,721.0	2.58	3,721.0	2.58	0.0	-	3,721.0	0.0
Sunbury	[1] 4.00	1,107.0	2.45	1,104.0	2.44	3.0	4.80	1,107.0	.0
Pennsylvania Power	-	6,105.8	-	624.4	-	5,481.4	-	735.4	5,370.4
New Castle	[1] 3.00	735.4	2.51	624.4	2.37	111.0	3.29	735.4	.0
Mansfield	[1] .60	5,370.4	5.57	.0	-	5,370.4	5.57	.0	[6] 5,370.4
Peru Utils	-	47.7	-	27.6	-	20.1	-	47.7	.0
Peru	[1] 6.00	47.7	5.32	27.6	4.12	20.1	6.98	47.7	.0
Philadelphia Elec	-	1,217.0	-	8.0	-	1,209.0	-	8.1	1,208.9
Cromby	[1] 1.20	290.0	2.72	8.0	1.17	282.0	2.76	8.1	281.9
Eddystone	[1] .60	927.0	2.66	.0	-	927.0	2.66	.0	[6] 927.0
Piqua Mun Power Sys	-	124.8	-	118.0	-	6.8	-	124.8	.0
Piqua	[1] 4.78	124.8	3.75	118.0	3.63	6.8	5.77	124.8	.0
Portland General Elec	-	1,134.5	-	1,134.5	-	.0	-	1,134.5	.0
Boardman	[1] 1.20	1,134.5	.88	1,134.5	.88	.0	-	1,134.5	.0
Potomac Edison Co (APS)	-	232.5	-	142.0	-	90.5	-	232.5	.0
Smith	[3] 1.00	232.5	.99	142.0	.94	90.5	1.06	232.5	.0
Potomac Elec Power	-	5,885.0	-	5,278.0	-	607.0	-	5,885.0	.0
Chalk	[1] 3.50	670.0	2.92	641.0	2.89	29.0	3.68	670.0	.0
Dickerson	[1] 2.80	1,117.0	2.60	734.0	2.37	383.0	3.05	1,117.0	.0
Morgantown	[1] 3.50	3,143.0	2.94	2,948.0	2.89	195.0	3.75	3,143.0	.0
Potomac River	[2] 16.00	955.0	1.18	955.0	1.18	.0	-	955.0	.0
Pub Serv Co of Colorado	-	6,778.6	-	6,746.4	-	32.2	-	6,778.6	.0
Arapahoe	[1] 1.20	554.6	.80	554.6	.80	.0	-	554.6	.0
Cameo	[1] 1.20	205.5	.95	173.3	.88	32.2	1.32	205.5	.0
Cherokee	[1] 1.20	1,709.9	.83	1,709.9	.83	.0	-	1,709.9	.0
Comanche	[1] 1.20	2,160.8	.78	2,160.8	.78	.0	-	2,160.8	.0
Valmont	[1] 1.20	354.9	.74	354.9	.74	.0	-	354.9	.0
Pawnee	[1] 1.20	1,792.9	.82	1,792.9	.82	.0	-	1,792.9	.0
Pub Serv Co of Indiana	-	11,393.6	-	3,468.0	-	7,925.6	-	4,868.9	6,524.7
Cayuga	[1] 6.00	2,667.9	4.47	2,546.5	4.36	121.4	6.72	2,667.9	.0
Edwardsport	[2] 16.00	54.8	4.26	54.8	4.26	.0	-	54.8	.0
Noblesville	[2] 16.00	19.6	4.51	19.6	4.51	.0	-	19.6	.0
Gallagher	[1] 6.00	787.5	5.77	392.0	5.41	395.5	6.12	787.5	.0
Wabash River	[1] 4.04	1,339.1	3.84	455.1	2.92	884.0	4.31	1,339.1	.0
Gibson Station	[1] 1.20	6,524.7	4.57	.0	-	6,524.7	4.57	.0	6,524.7
Pub Serv Co of New Hampshire	-	862.0	-	862.0	-	.0	-	862.0	.0
Merrimack	[4] 2.00	862.0	1.78	862.0	1.78	.0	-	862.0	.0
Pub Serv Co of New Mexico	-	5,071.5	-	5,071.5	-	.0	-	5,071.5	.0
San Juan	[4] 1.20	5,071.5	.82	5,071.5	.82	.0	-	5,071.5	[5] .0
Pub Serv Co of Oklahoma (CSW)	-	2,593.0	-	2,593.0	-	.0	-	2,593.0	.0
Northeastern	[1] 1.20	2,593.0	1.02	2,593.0	1.02	.0	-	2,593.0	.0
Pub Serv Elec and Gas-NJ	-	2,099.3	-	2,099.3	-	.0	-	2,099.3	.0
Hudson	[3] 1.50	958.1	1.05	958.1	1.05	.0	-	958.1	.0
Mercer	[3] 1.50	1,141.2	1.06	1,141.2	1.06	.0	-	1,141.2	.0
Richmond Power and Lt	-	207.8	-	21.7	-	186.1	-	23.3	184.5
Whitewater	[1] 1.79	207.8	4.27	21.7	1.59	186.1	4.58	23.3	184.5
Rochester Dept Pub Utils	-	208.4	-	208.4	-	.0	-	208.4	.0
Silver Lake	[1] 4.00	208.4	3.23	208.4	3.23	.0	-	208.4	.0
Rochester Gas and Elec Corp	-	790.0	-	490.5	-	299.5	-	790.0	.0
Rochester 3	[4] 1.90	183.2	1.84	121.1	1.73	62.1	2.05	183.2	.0
Rochester 7	[4] 1.90	606.8	1.84	369.4	1.71	237.4	2.03	606.8	.0

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423 and Federal Power Commission Form 67, Part IV.

Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)—Continued

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
S Mississippi Elec Pwr Assn	-	853.9	-	0.0	-	853.9	-	0.0	853.9
R D Morrow	[1] 1.20	853.9	1.60	.0	-	853.9	1.60	.0	[5] 853.9
Salt River Project	-	9,012.9	-	3,738.0	-	5,274.9	-	7,723.1	1,289.8
Navajo	[1] 1.00	7,465.0	.99	3,548.8	0.93	3,916.2	1.04	7,465.0	.0
Coronado	[1] .80	1,547.9	.90	189.2	.76	1,358.7	.92	258.1	[5] 1,289.8
San Antonio City Pub Secv	-	3,050.0	-	3,050.0	-	.0	-	3,050.0	.0
Deeley	[1] 1.20	3,050.0	.79	3,050.0	.79	.0	-	3,050.0	.0
San Miguel Elec Coop	-	2,426.9	-	.0	-	2,426.9	-	.0	2,426.9
San Miguel	[1] 1.20	2,426.9	6.89	.0	-	2,426.9	6.89	.0	[5] 2,426.9
Savannah Elec and Power	-	762.9	-	762.9	-	.0	-	762.9	.0
Port Wentworth	[2] 16.00	426.8	1.46	426.8	1.46	.0	-	426.8	.0
Effingham	[2] 16.00	336.1	1.48	336.1	1.48	.0	-	336.1	.0
Sierra Pacific Power	-	715.6	-	.0	-	715.6	-	.0	715.6
North Valmy	[4] .15	715.6	.33	.0	-	715.6	.33	.0	715.6
Sikeston Bd of Mun Utils	-	262.3	-	.0	-	262.3	-	.0	262.3
Sikeston	[4] .60	262.3	2.35	.0	-	262.3	2.35	.0	[5] 262.3
South Carolina Elec and Gas	-	3,860.8	-	3,467.5	-	393.3	-	3,860.8	.0
Canaoys	[1] 3.50	884.8	2.50	875.0	2.49	9.8	3.74	884.8	.0
Mcmeekin	[1] 3.50	741.5	2.74	652.5	2.62	89.0	3.62	741.5	.0
Urguhart	[1] 2.30	691.0	2.16	428.6	1.86	262.4	2.65	691.0	.0
Wateree	[1] 3.50	1,543.5	2.11	1,511.4	2.07	32.1	3.88	1,543.5	.0
South Carolina Pub Serv Auth	-	3,609.2	-	778.9	-	2,830.3	-	818.4	2,790.8
Grainger	[1] 3.50	318.6	2.95	285.8	2.84	32.8	3.87	318.6	.0
Jefferies	[1] 3.50	499.8	3.03	493.1	3.01	6.7	4.83	499.8	.0
Georgetown	[1] 1.20	2,790.8	1.88	.0	-	2,790.8	1.88	.0	[5] 2,790.8
Southern California Edison	-	4,788.0	-	4,788.0	-	.0	-	4,788.0	.0
Mohave	[2] 16.00	4,788.0	1.04	4,788.0	1.04	.0	-	4,788.0	.0
Southern Illinois Power Coop	-	498.9	-	212.5	-	286.5	-	498.9	.0
Marion	[1] 6.00	498.9	5.99	212.5	4.77	286.5	6.90	498.9	[5] .0
Southern Indiana Gas and Elec	-	1,847.8	-	637.0	-	1,210.8	-	973.7	874.1
Culley	[1] 6.00	973.7	5.94	637.0	5.62	336.7	6.54	973.7	.0
A B Brown	[1] 6.00	452.6	6.95	.0	-	452.6	6.95	.0	[5] 452.6
Warrick	[3] 2.80	421.5	3.13	.0	-	421.5	3.13	.0	421.5
Southwestern Elec Pwr (CSW)	-	6,054.0	-	6,054.0	-	.0	-	6,054.0	.0
Flint Creek	[1] 1.20	1,638.0	.82	1,638.0	.82	.0	-	1,638.0	.0
Welsh Station	[1] 1.20	4,416.0	.82	4,416.0	.82	.0	-	4,416.0	.0
Southwestern Pub Serv	-	3,831.0	-	3,831.0	-	.0	-	3,831.0	.0
Harrington	[1] 1.20	3,367.0	.87	3,367.0	.87	.0	-	3,367.0	.0
Tolk	[1] 1.20	464.0	.84	464.0	.84	.0	-	464.0	.0
Springfield Wtr, Lt & Pwr Dept	-	722.1	-	21.5	-	700.6	-	58.5	663.6
Dallman	[1] 1.20	649.2	6.09	.0	-	649.2	6.09	.0	[5] 649.2
Lakeside	[1] 6.00	72.9	6.07	21.5	5.39	51.4	6.36	58.5	14.4
Springfield, City Utils of	-	745.3	-	387.6	-	357.7	-	387.6	357.7
James River	[1] 9.20	387.6	7.01	387.6	7.01	.0	-	387.6	.0
Southwest	[1] 1.20	357.7	6.01	.0	-	357.7	6.01	.0	[5] 357.7
St Joseph Lt and Power	-	122.4	-	111.8	-	10.6	-	122.4	.0
Lakeroad	[1] 8.60	122.4	7.33	111.8	7.19	10.6	8.78	122.4	.0
Tampa Elec	-	3,960.3	-	3,960.3	-	.0	-	3,960.3	.0
Big Bend	[1] 6.50	2,892.3	4.70	2,892.3	4.70	.0	-	2,892.3	.0
Gannon	[1] 2.40	1,068.0	1.98	1,068.0	1.98	.0	-	1,068.0	.0
Tennessee Valley Authority	-	31,971.6	-	18,952.9	-	13,018.7	-	23,017.7	8,953.9

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423 and Federal Power Commission Form 67, Part IV.

Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)—Continued

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
Tennessee Valley Authority									
Colbert	[1] 4.00	2,999.0	3.95	1,678.3	3.86	1,320.7	4.06	2,999.0	0.0
Widows Creek	[1] 1.20	2,385.4	3.94	387.3	1.03	1,998.1	4.50	407.7	[5] 1,977.7
Paradise	[1] 3.10	4,829.9	8.19	.0	-	4,829.9	8.19	.0	4,829.9
Shawnee	[1] 1.20	3,041.3	1.97	2,572.7	1.07	468.6	6.89	2,629.6	[5] 411.7
Allen	[1] 4.00	1,327.3	3.68	1,296.6	3.66	30.7	4.33	1,327.3	.0
Bull Run	[1] 4.00	2,192.8	1.40	2,192.8	1.40	.0	-	2,192.8	.0
Cumberland	[1] 5.00	5,134.3	4.91	2,754.4	4.77	2,379.9	5.08	5,134.3	.0
Gallatin	[1] 5.00	2,568.2	4.73	2,337.9	4.70	230.3	5.06	2,568.2	.0
Sevier	[1] 4.00	2,065.4	3.41	2,065.4	3.41	.0	-	2,065.4	.0
Johnsonville	[1] 1.20	1,734.7	3.55	.1	1.12	1,734.6	3.55	.1	1,734.6
Kingston	[1] 2.80	3,638.1	1.65	3,612.2	1.64	25.9	3.25	3,638.1	.0
Watts Bar	[1] 4.00	55.2	3.72	55.2	3.72	.0	-	55.2	.0
Texas Pwr and Lt (Texas Utils)	-	**457.0**	-	**.0**	-	**457.0**	-	**.0**	**457.0**
Sandow No 4	[1] 1.20	457.0	3.72	.0	-	457.0	3.72	.0	[5] 457.0
Texas Utils Servs Inc	-	**27,173.0**	-	**15,760.0**	-	**11,413.0**	-	**15,760.0**	**11,413.0**
Big Brown	[4] 3.00	5,963.0	.82	5,963.0	.82	.0	-	5,963.0	.0
Martin Lake	[1] 1.20	11,413.0	2.80	.0	-	11,413.0	2.80	.0	[5] 11,413.0
Monticello	[4] 3.00	9,797.0	.94	9,797.0	.94	.0	-	9,797.0	[5] .0
Toledo Edison Co	-	**1,678.6**	-	**947.6**	-	**731.0**	-	**1,678.6**	**.0**
Acme	[1] 1.20	232.1	1.01	212.3	.98	19.8	1.39	232.1	.0
Bay Shore	[1] 1.94	1,446.5	1.68	735.3	1.24	711.2	2.13	1,446.5	.0
Traverse, City of	-	**45.7**	-	**45.7**	-	**.0**	-	**45.7**	**.0**
Bayside	[3] 1.50	45.7	.88	45.7	.88	.0	-	45.7	.0
Union Elec	-	**11,262.0**	-	**6,031.0**	-	**5,231.0**	-	**11,262.0**	**.0**
Labadie	[1] 4.60	5,405.0	4.17	1,795.0	1.90	3,610.0	5.30	5,405.0	.0
Meramec	[1] 2.30	930.0	2.03	930.0	2.03	.0	-	930.0	.0
Sioux	[1] 4.80	2,128.0	4.53	507.0	.77	1,621.0	5.70	2,128.0	.0
Rush Island	[1] 2.30	2,799.0	1.89	2,799.0	1.89	.0	-	2,799.0	.0
United Gas Imp Co	-	**242.0**	-	**242.0**	-	**.0**	-	**242.0**	**.0**
Hunlock Creek	[1] 4.00	242.0	1.78	242.0	1.78	.0	-	242.0	.0
United Power Assoc	-	**897.3**	-	**2.1**	-	**895.2**	-	**2.1**	**895.2**
Elk River	[1] 4.00	2.1	1.49	2.1	1.49	.0	-	2.1	.0
Stanton	[4] .60	895.2	.95	.0	-	895.2	.95	.0	895.2
Upper Peninsula Gen Co	-	**919.9**	-	**919.9**	-	**.0**	-	**919.9**	**.0**
Presque Isle	[4] 1.20	919.9	.65	919.9	.65	.0	-	919.9	.0
Upper Peninsula Power	-	**57.0**	-	**.0**	-	**57.0**	-	**.0**	**57.0**
Escanaba	[1] 1.20	57.0	2.40	.0	-	57.0	2.40	.0	57.0
Utah Power and Lt	-	**8,034.0**	-	**7,775.0**	-	**259.0**	-	**8,034.0**	**.0**
Carbon	[4] 1.00	376.0	.42	376.0	.42	.0	-	376.0	.0
Gadsby	[4] 1.00	342.0	.44	342.0	.44	.0	-	342.0	.0
Hale	[4] 1.00	22.0	.43	22.0	.43	.0	-	22.0	.0
Naughton	[4] 1.20	2,040.0	.53	2,040.0	.53	.0	-	2,040.0	[5] .0
Emery	[1] 1.20	2,727.0	.99	2,468.0	.95	259.0	1.40	2,727.0	[5] .0
Huntington	[1] 1.20	2,527.0	.72	2,527.0	.72	.0	-	2,527.0	[5] .0
Vineland, City of	-	**84.1**	-	**76.7**	-	**7.4**	-	**84.1**	**.0**
H M Down	[3] 1.50	84.1	1.40	76.7	1.37	7.4	1.67	84.1	.0
Virginia Elec and Power	-	**6,869.0**	-	**3,508.0**	-	**3,361.0**	-	**3,743.8**	**3,125.2**
Bremo Bluff	[1] 2.64	565.0	1.49	553.0	1.46	12.0	2.86	565.0	.0
Chesterfield	[1] 2.64	2,029.0	1.61	1,999.0	1.59	30.0	2.88	2,029.0	.0
Portsmouth	[1] 2.64	664.0	1.50	664.0	1.50	.0	-	664.0	.0
Possum Point	[1] 1.52	524.0	1.62	239.0	1.22	285.0	1.95	407.5	116.5
Mount Storm	[1] 2.70	3,087.0	3.19	53.0	2.46	3,034.0	3.20	78.3	3,008.7
Virginia, Minn Dept of Pub Ut	-	**115.7**	-	**113.4**	-	**2.3**	-	**115.7**	**.0**

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423 and Federal Power Commission Form 67, Part IV.

Quantity of Coal Complying With 1982 Air Pollution Control Regulations for Sulfur

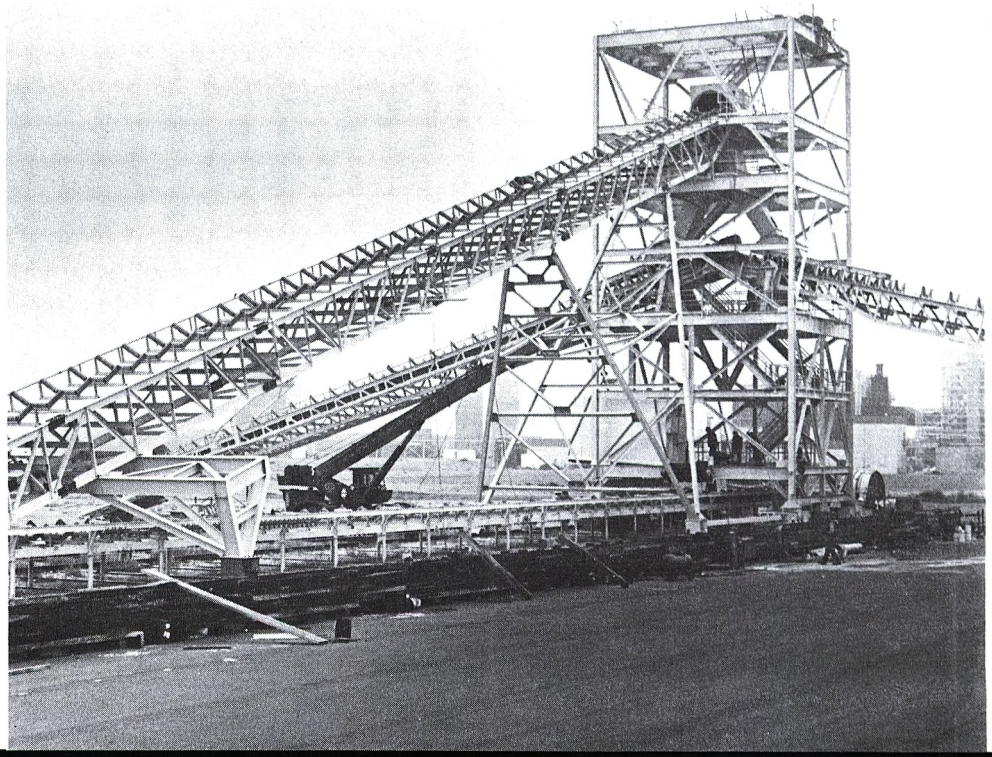
Table 55. Coal Receipts at Steam Electric Plants of 25-Megawatt Capacity or Larger in 1982 Conforming or Not Conforming to 1982 Sulfur Regulations, by Company and Plant (Thousand Short Tons)—Continued

Company Plant (1)	Receipts			Before Blending				After Blending	
	1982 Sulfur Reg (2)	Total Quantity (3)	Avg. Sulfur Cont (4)	Quantity Conforming (5)	Avg. Sulfur Cont (6)	Quantity Non-Conforming (7)	Avg. Sulfur Cont (8)	Quantity Conforming (9)	Quantity Non-Conforming (10)
Virginia, Minn Dept of Pub Ut									
Virginia	[3] 2.00	115.7	0.92	113.4	0.89	2.3	2.40	115.7	0.0
W Illinois Power Coop	-	70.6	-	20.7	-	49.9	-	57.3	13.4
Pearl (Gts)	[1] 6.00	70.6	6.16	20.7	4.54	49.9	6.83	57.3	13.4
West Penn Power (APS)	-	4,938.9	-	3,509.9	-	1,429.0	-	4,530.2	408.7
Armstrong	[1] 3.70	618.2	2.12	608.1	2.07	10.1	5.04	618.2	.0
Hatfield	[1] 3.70	3,912.0	3.25	2,901.8	2.93	1,010.2	4.18	3,912.0	.0
Mitchell	[1] .60	408.7	4.03	.0	-	408.7	4.03	.0	408.7
Western Farmers Elec Coop	-	1,173.3	-	1,173.3	-	.0	-	1,173.3	.0
Hugo	[4] 1.20	1,173.3	.53	1,173.3	.53	.0	-	1,173.3	.0
Willmar Mun Utils Comm	-	69.5	-	69.5	-	.0	-	69.5	.0
Willmar	[1] 4.00	69.5	1.89	69.5	1.89	.0	-	69.5	.0
Winnetka, Village of	-	19.9	-	.0	-	19.9	-	.0	19.9
Winnetka	[1] 1.80	19.9	2.18	.0	-	19.9	2.18	.0	19.9
Wisconsin Elec Power	-	5,380.9	-	5,380.9	-	.0	-	5,380.9	.0
Oak Creek	[2] 16.00	2,982.4	4.27	2,982.4	4.27	.0	-	2,982.4	.0
Port Washington	[2] 16.00	664.2	4.51	664.2	4.51	.0	-	664.2	.0
Pleasant Prairie	[1] 1.20	1,734.3	.88	1,734.3	.88	.0	-	1,734.3	.0
Wisconsin Power and Lt	-	4,451.2	-	2,729.2	-	1,722.1	-	3,502.6	948.6
Blackhawk	[2] 16.00	10.7	5.75	10.7	5.75	.0	-	10.7	.0
Edgewater	[2] 16.00	862.2	5.11	862.2	5.11	.0	-	862.2	.0
Nelson Dewey	[2] 16.00	467.3	4.44	467.3	4.44	.0	-	467.3	.0
Rock River	[2] 16.00	171.6	5.84	171.6	5.84	.0	-	171.6	.0
Columbia	[1] 1.20	2,939.5	1.36	1,217.5	.89	1,722.1	1.69	1,990.9	948.6
Wisconsin Pub Serv Corp	-	1,366.0	-	1,366.0	-	.0	-	1,366.0	.0
Pulliam	[2] 16.00	519.7	3.85	519.7	3.85	.0	-	519.7	.0
Weston	[2] 16.00	846.3	1.46	846.3	1.46	.0	-	846.3	.0
Wyandotte Dept of Muni Serv	-	70.0	-	70.0	-	.0	-	70.0	.0
Wyandotte	[3] .75	70.0	.75	70.0	.75	.0	-	70.0	.0
Total	-	601,426.9	-	436,254.5	-	165,172.3	-	473,538.0	127,888.8

[1] Pounds of SO_2 per million Btu.
[2] No federally enforceable sulfur regulation, or regulation varies with environmental conditions. Sulfur units are expressed in pounds of SO_2 per million Btu
[3] Percent sulfur by weight.
[4] Pounds of sulfur per million Btu.
[5] Tonnage does not reflect the FGD system used at this plant. See table 28.
Note: The average sulfur content in columns (4), (6), and (8) are given in the same units as in column (2)
All sulfur emission regulations represent the most stringent of either the Federal or State standard.
Total nonconforming coal after blending does not reflect variances granted from Federal or State standards.
Totals may not equal the sum of components because of indedendent rounding.
Source: Federal Power Commission Form 423 and Federal Power Commission Form 67, Part IV.

Plant Fossil Fuel

Quantity, Quality, and Cost Data for Calendar Year 1982



7. Plant Fossil Fuel Quantity, Quality, and Cost Data for Calendar Year 1982

This chapter presents quantity, quality, and cost data for fossil fuels received by electric generating plants. The fuels received by these plants are described by amount (in thousand tons, barrels, or thousand cubic feet) and cost (cents per million Btu and dollars per ton, barrel, or thousand cubic feet). In addition, coal and oil are described by their quality, referring to the average percentage of sulfur content.

When reference is made to coal, this report includes bituminous, subbituminous, lignite, anthracite, and small quantities of petroleum coke.

Oil refers to aggregation of data for FO2, FO4, FO5, FO6, crude, topped crude, kerosene, jet-fuel, re-refined motor oil, and liquified petroleum gas. In this chapter, oil received by generating plants in Hawaii is also included. (Tables 1 through 55 include data for the contiguous United States only.)

Data, under the heading of gas, includes natural gas, coke-oven gas, blast-furnace gas, refinery gas, and gas received by units in Alaska.

The following holding companies are covered in this chapter.

1. AEP - American Electric Power
2. APS - Allegheny Power System
3. ACE – Atlantic City Electric
4. CSW - Central & South West Coop.
5. DMV - Delmarva
6. GPU - General Public Util.
7. MSU - Middle South Util.
8. NEES - New England Electric System
9. NEGA - New England Gas & Electric Assoc.
10. NU - Northeast Utility
11. SC - Southern Company
12. TU - Texas Utilities

Due to computer rounding, any quantity of fossil fuel less than 50 tons, 50 barrels, or 50 cubic feet appears in the tables as 0.0.

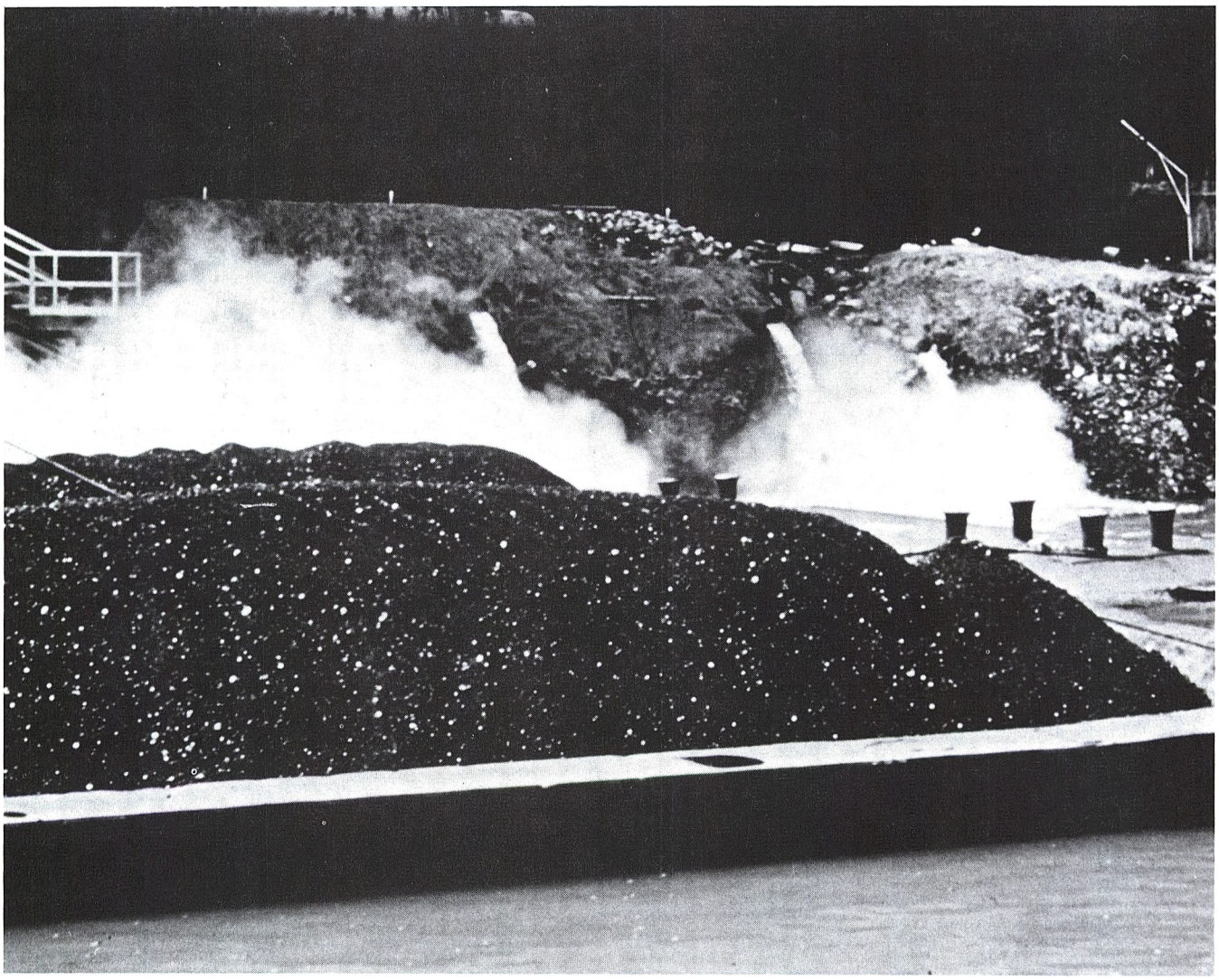


Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Alabama Elec Coop Inc	844.9	196.9	46.10	1.36	-	-	-	-	1.4	420.8	4.32	100	-	*
Tombigbee (AL)	839.4	196.9	46.09	1.36	-	-	-	-	-	-	-	100	-	-
Mc Williams (AL)	5.6	194.4	47.47	1.68	-	-	-	-	1.4	420.8	4.32	99	-	1
Alabama Power Co (SC)	11,337.4	212.6	51.74	1.19	138.0	710.0	41.26	0.22	1,340.6	300.2	3.38	99	*	1
Barry (AL)	45.5	224.1	53.49	1.00	25.7	684.0	39.63	.24	1,319.9	298.6	3.36	40	5	55
Gadsden (AL)	240.8	237.1	62.62	1.17	.9	720.6	41.64	.22	20.6	410.7	4.24	100	*	*
Gorgas 2 and 3 (AL)	5,277.6	208.4	50.90	.94	42.9	717.6	41.71	.20	-	-	-	100	*	-
Greene (AL)	404.9	246.9	61.48	1.53	16.3	717.7	41.74	.22	-	-	-	99	1	-
Gaston (AL)	4,025.1	197.5	46.93	1.68	25.8	712.0	41.37	.25	-	-	-	100	*	-
James Miller (AL)	1,343.4	256.0	64.45	.62	26.3	715.9	41.66	.20	-	-	-	100	*	-
Alexandria, City of	-	-	-	-	-	-	-	-	3,577.6	391.4	4.07	-	-	100
Alexandria-Hunter (LA)	-	-	-	-	-	-	-	-	3,577.6	391.4	4.07	-	-	100
Ames, City of	130.3	193.4	32.79	.81	12.1	654.5	37.74	.08	2.3	394.0	3.94	97	3	*
Ames (IA)	130.3	193.4	32.79	.81	12.1	654.5	37.74	.08	2.3	394.0	3.94	97	3	*
Appalachian Power (AEP)	11,294.6	201.4	48.40	.72	-	-	-	-	-	-	-	100	-	-
Clinch River (VA)	1,517.8	187.0	45.09	.72	-	-	-	-	-	-	-	100	-	-
Glen Lyn (VA)	543.7	189.9	45.40	.84	-	-	-	-	-	-	-	100	-	-
Amos (WV)	5,889.8	213.0	50.81	.76	-	-	-	-	-	-	-	100	-	-
Kanawha River (WV)	912.2	169.2	39.49	.74	-	-	-	-	-	-	-	100	-	-
Mountaineer (WV)	2,431.1	197.0	48.67	.60	-	-	-	-	-	-	-	100	-	-
Arizona Elec Power Coop Inc	973.4	269.5	52.33	.56	-	-	-	-	816.9	[2] 365.8	3.82	96	-	4
Apache (AZ)	973.4	269.5	52.33	.56	-	-	-	-	816.9	[2] 365.8	3.82	96	-	4
Arizona Pub Serv	10,856.7	84.0	15.37	.68	116.9	521.0	32.32	.59	13,087.0	379.0	3.97	93	*	6
Cholla (AZ)	3,565.7	120.0	23.59	.44	-	-	-	-	75.7	452.6	4.18	100	-	*
Ocotillo (AZ)	-	-	-	-	-	-	-	-	5,380.9	379.4	4.00	-	-	100
Phoenix (AZ)	-	-	-	-	116.9	521.0	32.32	.59	799.1	394.8	4.13	-	46	54
Saguaro (AZ)	-	-	-	-	-	-	-	-	3,097.5	383.0	3.99	-	-	100
Yuma Axis (AZ)	-	-	-	-	-	-	-	-	3,018.4	368.4	3.83	-	-	100
Four Corners (NM)	7,291.0	64.3	11.35	.79	-	-	-	-	715.4	377.9	4.08	99	-	1
Arkansas Elec Coop	-	-	-	-	6.4	415.3	26.16	2.80	3,161.0	340.7	3.48	-	1	99
Fitzhugh (AR)	-	-	-	-	-	-	-	-	1,691.3	354.3	3.54	-	-	100
Bailey (AR)	-	-	-	-	-	-	-	-	403.4	330.7	3.37	-	-	100
Mcclellan (AR)	-	-	-	-	6.4	415.3	26.16	2.80	1,066.2	323.9	3.41	-	3	97
Arkansas Power and Lt (MSU)	5,763.1	185.4	31.79	.44	304.5	575.7	34.55	.66	29,143.8	294.8	3.05	76	1	23
Lynch (AR)	-	-	-	-	11.2	600.8	36.07	.30	955.5	320.5	3.29	-	6	94
Moses (AR)	-	-	-	-	11.2	414.7	25.54	1.16	961.4	321.7	3.26	-	7	93
Couch (AR)	-	-	-	-	6.3	410.6	25.32	1.30	5,458.4	164.4	1.79	-	1	99
Lake Catherine (AR)	-	-	-	-	21.5	412.4	25.47	1.22	9,073.6	328.1	3.35	-	1	99
Mabelvale (GT) (AR)	-	-	-	-	.7	600.4	36.05	.30	3.4	318.3	3.23	-	56	44
Ritchie (AR)	-	-	-	-	62.6	389.4	24.93	1.38	12,680.5	326.9	3.33	-	3	97
Jim Hill (MO)	-	-	-	-	-	-	-	-	11.1	434.3	4.44	-	-	100
Whitebluff (AR)	5,155.1	186.0	31.91	.45	56.2	652.4	38.31	.34	-	-	-	100	*	-
Independence (AR)	607.9	180.2	30.76	.37	127.0	690.3	40.02	.34	-	-	-	93	7	-
Blytheville (GT) (AR)	-	-	-	-	7.6	631.3	38.76	.29	-	-	-	-	100	-
Assoc Elec Coop-Missouri	4,889.2	157.9	33.33	3.57	-	-	-	-	-	-	-	100	-	-
Madrid (MO)	3,046.1	159.0	33.95	3.27	-	-	-	-	-	-	-	100	-	-
Hill (MO)	1,843.1	156.1	32.30	4.08	-	-	-	-	-	-	-	100	-	-
Atlantic City Elec	612.7	182.4	47.00	3.00	1,282.2	459.0	28.74	1.78	377.4	454.0	4.69	65	33	2
England (NJ)	612.7	182.4	47.00	3.00	1,244.3	449.2	28.21	1.83	-	-	-	67	33	-
Caroll Cornr (GT) (NJ)	-	-	-	-	7.0	803.2	45.76	.04	120.5	458.6	4.74	-	24	76
Cedar Sta (GT) (NJ)	-	-	-	-	15.3	810.5	46.23	.02	-	-	-	-	100	-
Middle Sta (GT) (NJ)	-	-	-	-	5.7	815.1	46.52	.01	-	-	-	-	100	-
Missouri Avenue (NJ)	-	-	-	-	10.0	808.8	46.13	.02	-	-	-	-	100	-
Mickelton (GT) (NJ)	-	-	-	-	-	-	-	-	256.8	451.9	4.67	-	-	100
Austin Elec Dept, City of	-	-	-	-	60.9	711.9	42.34	.01	24,099.7	411.9	4.13	-	1	99
Decker Creek (TX)	-	-	-	-	23.6	700.7	40.32	.01	13,499.5	413.0	4.15	-	1	99
Holly (TX)	-	-	-	-	37.3	718.5	43.62	.01	10,410.6	410.5	4.11	-	2	98
Seaholm (TX)	-	-	-	-	-	-	-	-	189.5	415.2	4.16	-	-	100
Austin Utils	53.4	215.8	53.22	1.82	.1	498.7	31.42	1.86	781.4	346.3	3.46	63	*	37
Austin-Northeast (MN)	53.4	215.8	53.22	1.82	-	-	-	-	76.2	360.3	3.60	95	-	5
Downtown-4th Ave (MN)	-	-	-	-	.1	498.7	31.42	1.86	705.2	344.8	3.45	-	*	100

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Baltimore Gas and Elec	623.0	207.5	53.75	0.86	3,503.0	469.6	29.52	0.95	615.0	392.1	4.00	42	57	2
Crane (MD)	-	-	-	-	2,045.0	469.3	29.55	.95	-	-	-	-	100	-
Gould St (MD)	-	-	-	-	350.0	465.2	29.28	.94	-	-	-	-	100	-
Wagner (MD)	623.0	207.5	53.75	.86	875.0	471.4	29.50	.94	-	-	-	75	25	-
Notch Cliff (GT) (MD)	-	-	-	-	-	-	-	-	238.0	389.2	3.98	-	-	100
Phila Rd (GT) (MD)	-	-	-	-	3.0	728.2	41.98	.14	-	-	-	-	100	-
Riverside (MD)	-	-	-	-	163.0	472.2	29.67	.95	207.0	385.9	3.94	-	83	17
Westport (MD)	-	-	-	-	67.0	463.8	29.20	.96	170.0	403.6	4.12	-	71	29
Bangor Hydro	-	-	-	-	98.8	457.1	28.72	2.23	-	-	-	-	100	-
Graham (ME)	-	-	-	-	98.8	457.1	28.72	2.23	-	-	-	-	100	-
Basin Elec Power Coop	7,398.6	88.6	13.84	.43	-	-	-	-	-	-	-	100	-	-
Leland Olds (ND)	2,399.8	88.8	11.88	.55	-	-	-	-	-	-	-	100	-	-
Wm J Neal (ND)	200.1	92.6	12.24	.22	-	-	-	-	-	-	-	100	-	-
Laramie River (WY)	4,798.7	88.4	14.89	.38	-	-	-	-	-	-	-	100	-	-
Big Rivers Rural Elec Coop	3,505.5	138.7	30.50	2.75	16.3	723.3	41.32	.00	82.4	410.0	4.10	100	*	*
Coleman (KY)	1,346.2	159.5	36.32	2.11	-	-	-	-	82.4	410.0	4.10	100	-	*
Reid-Henderson (KY)	662.4	140.8	31.67	2.20	16.3	723.3	41.32	.00	-	-	-	99	1	-
R D Green (KY)	1,496.9	117.5	24.76	3.56	-	-	-	-	-	-	-	100	-	-
Black Hills Power and Lt	534.2	82.6	13.22	.48	2.8	765.4	44.53	.31	14.3	380.3	3.53	100	*	*
Ben French (SD)	96.1	107.6	17.42	.39	2.4	778.7	44.15	.31	14.3	380.3	3.53	98	1	1
Kirk (SD)	122.3	107.7	17.20	.49	-	-	-	-	-	-	-	100	-	-
Neil Simpson (WY)	132.1	49.9	7.96	.51	.4	825.4	46.80	.31	-	-	-	100	*	-
Osage (WY)	183.8	76.2	12.17	.50	-	-	-	-	-	-	-	100	-	-
Boston Edison	-	-	-	-	10,582.5	442.7	27.69	1.32	7,879.3	385.0	4.22	-	88	12
Edgar (MA)	-	-	-	-	50.7	426.3	26.79	.90	-	-	-	-	100	-
Framington (GT) (MA)	-	-	-	-	2.8	719.7	41.84	.30	-	-	-	-	100	-
L Street (MA)	-	-	-	-	2.6	726.0	42.11	.30	-	-	-	-	100	-
Mystic (MA)	-	-	-	-	5,379.1	418.2	26.20	1.66	7,879.3	385.0	4.22	-	80	20
New Boston (MA)	-	-	-	-	5,140.7	467.9	29.22	.98	-	-	-	-	100	-
W Medway (GT) (MA)	-	-	-	-	6.7	702.9	40.81	.30	-	-	-	-	100	-
Brazos Elec Power Coop	-	-	-	-	1.9	547.0	31.93	.10	15,927.5	364.4	3.68	-	*	100
North Texas (TX)	-	-	-	-	1.9	547.0	31.93	.10	289.4	358.7	3.69	-	4	96
Miller (TX)	-	-	-	-	-	-	-	-	15,638.1	364.5	3.68	-	-	100
Brownsville Pub Utils Bd	-	-	-	-	-	-	-	-	1,930.1	413.3	4.13	-	-	100
Si Ray (TX)	-	-	-	-	-	-	-	-	1,930.1	413.3	4.13	-	-	100
Bryan Mun Elec	-	-	-	-	41.8	549.6	33.06	.36	4,172.8	394.2	4.51	-	5	95
Bryan (TX)	-	-	-	-	24.0	605.7	36.40	.11	766.4	405.1	4.57	-	14	86
Dansby (TX)	-	-	-	-	17.8	474.1	28.55	.74	3,406.4	391.8	4.49	-	3	97
Burbank Pub Serv Dept	-	-	-	-	23.0	617.7	37.68	.22	4,098.0	502.3	5.32	-	3	97
Magnolia-Olive (CA)	-	-	-	-	23.0	617.7	37.38	.22	4,098.0	502.3	5.32	-	3	97
Burlington Elec Department	[1] 118.6	207.0	31.13	.60	9.5	753.9	43.52	.35	107.3	499.6	5.00	92	3	6
Moran (VT)	[1] 118.6	207.0	31.13	.60	9.5	753.9	43.52	.35	107.3	499.6	5.00	92	3	6
Cajun Elec Power Coop	1,170.8	238.0	38.44	.40	196.2	639.2	38.01	.30	10,704.6	112.1	1.17	60	4	36
Big Cajun No.1 (LA)	-	-	-	-	-	-	-	-	10,704.6	112.1	1.17	-	-	100
Big Cajun No.2 (LA)	1,170.8	238.0	38.44	.40	196.2	639.2	38.01	.30	-	-	-	94	6	-
Cambridge Elec Lt Co (NEGA)	-	-	-	-	138.0	532.0	33.20	.48	1,535.0	444.4	4.44	-	36	64
Kendall Square (MA)	-	-	-	-	138.0	532.0	33.20	.48	1,535.0	444.4	4.44	-	36	64
Canal Elec Co	-	-	-	-	9,424.0	413.9	25.97	2.13	-	-	-	-	100	-
Canal (MA)	-	-	-	-	9,424.0	413.9	25.97	2.13	-	-	-	-	100	-
Cardinal Operating Co (AEP)	4,063.9	166.3	38.79	2.14	-	-	-	-	-	-	-	100	-	-
Cardinal (OH)	4,063.9	166.3	38.79	2.14	-	-	-	-	-	-	-	100	-	-
Carolina Power and Lt	10,034.6	191.8	47.26	.81	270.1	[1] 689.2	39.18	.19	84.8	433.3	4.46	99	1	*
Asheville (NC)	890.1	177.1	45.25	1.14	8.6	715.2	41.45	.20	-	-	-	100	*	-
Blewett (GT) (NC)	-	-	-	-	4.6	[1] 849.6	49.24	.20	-	-	-	-	100	-
Cape Fear (NC)	600.1	187.8	46.29	1.03	23.1	739.1	42.84	.20	-	-	-	99	1	-
Lee (NC)	817.2	204.2	50.64	.97	23.5	717.5	41.59	.20	-	-	-	99	1	-
Roxboro (NC)	5,604.7	190.6	46.80	.67	68.0	704.7	40.84	.20	-	-	-	100	*	-

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Carolina Power and Lt														
Sutton (NC)	1,098.8	196.9	47.68	0.89	29.6	677.6	39.26	0.20	1.2	417.0	4.31	99	1	*
Weatherspoon (NC)	361.6	201.2	49.78	.98	12.5	709.4	41.12	.20	20.2	440.1	4.55	99	1	*
Darlington (GT) (SC)	-	-	-	-	47.9	690.6	30.55	.14	58.7	434.9	4.46	-	80	20
Robinson (SC)	391.7	191.0	46.58	1.05	16.1	715.7	41.46	.20	4.7	389.7	4.05	99	1	*
Mayo (NC)	270.4	207.6	51.01	.63	36.2	690.4	40.01	.20	-	-	-	97	3	-
Cedar Falls Utils	-	-	-	-	-	-	-	-	4.6	419.2	4.15	-	-	100
Streeter (IA)	-	-	-	-	-	-	-	-	4.6	419.2	4.15	-	-	100
Cent Elec Power Coop-MO	212.0	141.8	31.60	3.48	-	-	-	-	-	-	-	100	-	-
Chamois (MO)	212.0	141.8	31.60	3.48	-	-	-	-	-	-	-	100	-	-
Cent Hudson Gas and Elec	-	-	-	-	10,981.0	435.1	27.27	1.65	3,448.0	392.1	4.03	-	95	5
Danskammer (NY)	-	-	-	-	2,715.0	470.9	29.39	.94	3,448.0	392.1	4.03	-	83	17
Roseton (NY)	-	-	-	-	8,266.0	423.4	26.57	1.88	-	-	-	-	100	-
Cent Illinois Lt	2,428.0	215.2	48.79	1.96	16.0	678.4	39.15	.23	493.0	385.4	3.82	99	*	1
Edwards (IL)	1,179.0	238.6	56.82	.58	9.0	661.6	38.15	.23	-	-	-	100	*	-
Wallace (IL)	88.0	232.2	61.85	.80	-	-	-	-	479.0	385.2	3.82	83	-	17
Sterling Ave (GT) (IL)	-	-	-	-	-	-	-	-	14.0	392.9	3.94	-	-	100
Duck Creek (IL)	1,161.0	186.8	39.64	3.46	7.0	700.0	40.43	.22	-	-	-	100	*	-
Cent Illinois Pub Serv	5,140.6	158.6	33.96	3.24	16.3	747.6	43.23	.24	-	-	-	100	*	-
Coffeen (IL)	2,326.9	145.4	28.64	3.98	2.5	742.0	42.94	.28	-	-	-	100	*	-
Grand Tower (IL)	376.3	132.9	29.31	3.07	2.5	750.1	43.11	.31	-	-	-	100	*	-
Hutsonville (IL)	324.9	145.4	31.10	2.66	.1	798.1	45.63	.15	-	-	-	100	*	-
Meredosia (IL)	647.6	165.2	37.82	2.76	5.2	762.2	43.96	.22	-	-	-	100	*	-
Newton (IL)	1,464.9	182.5	42.52	2.43	8.0	738.5	42.86	.21	-	-	-	100	*	-
Cent Kansas Power Co	-	-	-	-	-	-	-	-	124.1	235.0	2.20	-	-	100
Ross Beach (KS)	-	-	-	-	-	-	-	-	124.1	235.0	2.20	-	-	100
Cent Louisiana Elec	515.0	224.7	38.56	.43	-	-	-	-	42,996.0	383.4	4.00	16	-	84
Coughlin (LA)	-	-	-	-	-	-	-	-	10,581.0	382.9	4.08	-	-	100
Teche (LA)	-	-	-	-	-	-	-	-	15,988.0	379.4	4.00	-	-	100
Rodemacher (LA)	515.0	224.7	38.56	.43	-	-	-	-	16,427.0	387.6	3.95	35	-	65
Cent Maine Power	-	-	-	-	2,978.0	487.2	30.56	1.16	-	-	-	-	100	-
Cape (GT) (ME)	-	-	-	-	2.0	765.3	44.62	.26	-	-	-	-	100	-
Mason (ME)	-	-	-	-	150.0	408.7	25.81	2.27	-	-	-	-	100	-
Wyman (ME)	-	-	-	-	2,826.0	491.2	30.80	1.10	-	-	-	-	100	-
Cent Neb Pub Pwr and Ir Dept	-	-	-	-	-	-	-	-	192.3	270.8	2.48	-	-	100
Canaday (NE)	-	-	-	-	-	-	-	-	192.3	270.8	2.48	-	-	100
Cent Operating Co (AEP)	1,751.9	192.1	45.54	.98	-	-	-	-	-	-	-	100	-	-
Sporn (WV)	1,751.9	192.1	45.54	.98	-	-	-	-	-	-	-	100	-	-
Cent Power and Lt (CSW)	2,035.9	246.7	52.69	.34	-	-	-	-	107,318.8	391.6	4.06	28	-	72
Joslin (TX)	-	-	-	-	-	-	-	-	9,505.9	397.3	4.15	-	-	100
Bates (TX)	-	-	-	-	-	-	-	-	9,786.0	393.3	4.02	-	-	100
Laredo (TX)	-	-	-	-	-	-	-	-	9,201.4	346.0	3.68	-	-	100
Hill (TX)	-	-	-	-	-	-	-	-	14,631.4	393.4	4.08	-	-	100
Nueces Bay (TX)	-	-	-	-	-	-	-	-	18,991.2	393.1	4.06	-	-	100
La Palma (TX)	-	-	-	-	-	-	-	-	10,193.6	397.4	4.14	-	-	100
Victoria (TX)	-	-	-	-	-	-	-	-	10,375.3	396.3	4.09	-	-	100
Davis (TX)	-	-	-	-	-	-	-	-	24,644.0	399.9	4.11	-	-	100
Coyote Creek (TX)	2,035.9	246.7	52.69	.34	-	-	-	-	-	-	-	100	-	-
Cent Tele and Util Corp-Col	[1] 146.2	115.0	24.90	.60	-	-	-	-	1,362.0	413.0	3.57	73	-	27
Pueblo (CO)	-	-	-	-	-	-	-	-	1,362.0	413.0	3.57	-	-	100
Clark (CO)	[1] 146.2	115.0	24.90	.60	-	-	-	-	-	-	-	100	-	-
Cent Tele and Util Corp-Kan	-	-	-	-	-	-	-	-	7,810.8	252.0	2.45	-	-	100
Cimarron River (KS)	-	-	-	-	-	-	-	-	5,179.4	246.0	2.38	-	-	100
Large (KS)	-	-	-	-	-	-	-	-	677.7	347.1	3.49	-	-	100
Mullergren (KS)	-	-	-	-	-	-	-	-	1,953.7	233.7	2.27	-	-	100
Cent Vt Pub Serv Corp	-	-	-	-	2.8	701.6	42.23	.18	-	-	-	-	100	-
Rutland (GT) (VT)	-	-	-	-	2.8	701.6	42.23	.18	-	-	-	-	100	-

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Chugach Elec Assoc	-	-	-	-	-	-	-	-	23,149.0	41.6	0.42	-	-	100
Beluga (AK)	-	-	-	-	-	-	-	-	18,552.0	24.7	.25	-	-	100
Bernice Lake (AK)	-	-	-	-	-	-	-	-	2,900.0	110.0	1.10	-	-	100
International Stat (AK)	-	-	-	-	-	-	-	-	1,697.0	109.9	1.10	-	-	100
Cincinnati Gas and Elec Co	6,089.3	163.1	36.56	2.21	160.1	673.6	39.30	0.24	146.6	437.3	4.50	99	1	*
Beckjord (OH)	1,705.3	172.9	37.72	2.10	52.2	668.4	38.90	.23	-	-	-	99	1	-
Dicks Creek (GT) (OH)	-	-	-	-	.8	685.8	39.71	.18	146.6	437.3	4.50	-	3	97
Miami Fort (OH)	3,014.9	165.3	37.68	2.03	74.9	662.8	38.76	.21	-	-	-	99	1	-
East Bend (KY)	1,369.1	146.3	32.65	2.76	32.1	707.1	41.21	.36	-	-	-	99	1	-
Cleveland Elec Illum Co	5,939.6	162.1	44.66	2.88	166.5	578.4	35.67	.88	-	-	-	99	1	-
Ashtabula (OH)	926.9	169.4	41.95	3.81	8.0	716.0	41.45	.31	-	-	-	100	*	-
Avon Lake (OH)	1,960.1	182.1	44.80	2.70	16.2	715.4	41.43	.28	-	-	-	100	*	-
Eastlake (OH)	2,653.6	178.1	43.35	3.00	23.5	722.5	41.95	.27	-	-	-	100	*	-
Lake Shore (OH)	399.2	234.2	62.01	.72	118.8	526.5	33.25	1.12	-	-	-	93	7	-
Coffeyville Mun Lt & Wtr Dept	-	-	-	-	-	-	-	-	387.1	269.6	2.70	-	-	100
Coffeyville (KS)	-	-	-	-	-	-	-	-	387.1	269.6	2.70	-	-	100
Col Springs Dept Pub Utils	1,451.9	149.7	31.75	.44	15.0	167.1	9.85	.02	218.1	457.6	4.53	99	*	1
Drake (CO)	901.2	140.1	29.84	.47	7.5	147.1	6.67	.02	51.7	425.9	4.22	100	*	*
Birdsall (CO)	-	-	-	-	7.5	187.1	11.03	.02	166.4	467.4	4.62	-	21	79
Nixon (CO)	550.7	165.6	34.88	.38	-	-	-	-	-	-	-	100	-	-
Colorado-Ute Elec Assn	3,658.8	73.3	14.91	.44	18.0	690.1	39.63	.36	-	-	-	100	*	-
Hayden (CO)	1,295.3	61.9	13.26	.43	4.7	736.7	42.22	.37	-	-	-	100	*	-
Nucla (CO)	60.3	134.3	31.23	.84	-	-	-	-	-	-	-	100	-	-
Craig (CO)	2,303.2	76.4	15.41	.43	13.3	673.6	38.72	.36	-	-	-	100	*	-
Columbia Water and Lt	81.7	160.9	35.11	3.89	-	-	-	-	85.0	452.9	4.53	95	-	5
Columbia (MO)	81.7	160.9	35.11	3.89	-	-	-	-	85.0	452.9	4.53	95	-	5
Columbus and So Ohio Elec	3,764.2	137.1	31.46	4.00	-	-	-	-	179.6	432.5	4.46	100	-	*
Conesville (OH)	3,199.5	140.1	32.14	4.06	-	-	-	-	-	-	-	100	-	-
Picway (OH)	249.3	126.9	29.35	3.67	-	-	-	-	-	-	-	100	-	-
Poston (OH)	315.4	114.8	26.27	3.65	-	-	-	-	-	-	-	100	-	-
Walnut (GT) (OH)	-	-	-	-	-	-	-	-	179.6	432.5	4.46	-	-	100
Columbus Div of Elecity	4.0	178.6	47.49	.69	-	-	-	-	-	-	-	100	-	-
Refuse & Coal (OH)	4.0	178.6	47.49	.69	-	-	-	-	-	-	-	100	-	-
Commonwealth Edison-Indiana	1,504.0	244.3	46.94	.38	-	-	-	-	135.0	347.8	3.57	100	-	*
State Line (IN)	1,504.0	244.3	46.94	.38	-	-	-	-	135.0	347.8	3.57	100	-	*
Commonwealth Edison	12,949.6	247.9	48.03	1.17	8,254.8	709.9	44.92	.68	6,943.1	475.7	4.88	81	17	2
Bloom (GT) (IL)	-	-	-	-	8.0	751.7	43.65	.25	-	-	-	-	100	-
Calumet (GT) (IL)	-	-	-	-	19.0	780.8	45.27	.24	1,516.0	468.0	4.81	-	7	93
Crawford (IL)	809.6	312.2	59.99	.51	-	-	-	-	1,571.0	468.2	4.81	91	-	9
Elec Junction(GT) (IL)	-	-	-	-	11.0	774.2	44.82	.25	263.0	500.3	5.13	-	19	81
Joliet (IL)	2,538.0	261.6	53.60	.52	152.0	754.7	43.74	.26	499.4	438.7	4.50	97	2	1
Kincaid (IL)	2,879.0	155.3	32.16	3.47	-	-	-	-	50.3	358.2	3.61	100	-	*
Lombard (GT) (IL)	-	-	-	-	-	-	-	-	166.0	499.9	5.13	-	-	100
Powerton (IL)	3,006.0	242.6	45.50	.50	.2	700.9	40.69	.21	154.0	376.2	3.76	100	*	*
Ridgeland (IL)	-	-	-	-	324.0	556.3	35.12	.94	2,107.0	503.7	5.16	-	49	51
Sabrooke (IL)	-	-	-	-	20.6	761.9	44.25	.28	-	-	-	-	100	-
Waukegan (IL)	1,099.0	287.2	55.42	.52	54.0	779.4	44.64	.21	453.0	465.5	4.80	96	1	2
Will County (IL)	2,341.0	293.7	55.87	.52	48.0	732.9	42.64	.27	-	-	-	99	1	-
Fisk (IL)	277.0	306.4	58.77	.53	18.0	808.4	45.88	.22	163.4	463.1	4.75	95	2	3
Collins (IL)	-	-	-	-	7,600.0	714.4	45.38	.69	-	-	-	-	100	-
Commonwealth Elec Co (NEGA)	-	-	-	-	84.0	468.0	29.45	.95	923.0	405.3	4.05	-	36	64
Cannon (MA)	-	-	-	-	84.0	468.0	29.45	.95	923.0	405.3	4.05	-	36	64
Community Pub Serv-NM	-	-	-	-	-	-	-	-	492.0	308.2	3.24	-	-	100
Lordsburg (NM)	-	-	-	-	-	-	-	-	492.0	308.2	3.24	-	-	100
Connecticut Lt & Pwr Co(NU)	-	-	-	-	7,410.4	462.5	29.01	.87	-	-	-	-	100	-
Devon (CT)	-	-	-	-	2,521.6	459.4	28.91	.94	-	-	-	-	100	-
Montville (CT)	-	-	-	-	1,957.6	463.9	29.18	.64	-	-	-	-	100	-
Norwalk Harbor (CT)	-	-	-	-	2,931.2	464.4	28.98	.96	-	-	-	-	100	-

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Consolidated Edison Co of NY	-	-	-	-	14,902.6	511.2	31.48	0.46	70,364.1	374.9	3.86	-	56	44
Arthur Kill (NY)	-	-	-	-	3,197.0	480.7	29.78	.71	-	-	-	-	100	-
East River (NY)	-	-	-	-	1,363.6	529.8	32.50	.27	6,430.0	372.6	3.84	-	56	44
Gowanus (GT) (NY)	-	-	-	-	59.0	678.4	37.17	.15	-	-	-	-	100	-
Hudson Avenue (NY)	-	-	-	-	422.0	532.8	32.68	.27	-	-	-	-	100	-
Indian Point (NY)	-	-	-	-	31.0	533.8	32.75	.27	-	-	-	-	100	-
Narrows Bay (GT) (NY)	-	-	-	-	-	-	-	-	133.2	373.4	3.85	-	-	100
Ravenswood (NY)	-	-	-	-	4,675.0	495.4	30.60	.57	29,231.8	375.4	3.87	-	49	51
Waterside (NY)	-	-	-	-	1,188.0	534.2	32.76	.27	5,133.0	369.5	3.81	-	58	42
59th St (NY)	-	-	-	-	790.0	532.9	32.69	.27	-	-	-	-	100	-
74th St (NY)	-	-	-	-	382.0	533.2	32.71	.27	-	-	-	-	100	-
Astoria (NY)	-	-	-	-	2,795.0	538.7	33.01	.27	29,436.1	375.9	3.87	-	36	64
Consumers Power	6,254.1	206.4	50.20	1.40	110.3	614.3	35.71	.61	1,615.7	374.3	3.74	99	*	1
Cobb-Sandusky Sg (MI)	904.9	174.4	42.37	2.62	-	-	-	-	-	-	-	100	-	-
Morrow (MI)	-	-	-	-	-	-	-	-	975.7	369.3	3.69	-	-	100
Karn-Weadock (MI)	1,643.7	225.1	55.56	.85	64.7	561.0	32.52	.75	.6	439.3	4.39	99	1	*
Gaylord (GT) (MI)	-	-	-	-	-	-	-	-	216.5	373.2	3.73	-	-	100
Campbell (MI)	2,799.7	211.6	50.71	1.52	45.6	689.5	40.25	.40	-	-	-	100	*	-
Straits (GT) (MI)	-	-	-	-	-	-	-	-	16.2	411.4	4.11	-	-	100
Thetford (GT) (MI)	-	-	-	-	-	-	-	-	370.6	383.8	3.84	-	-	100
Weadock-Sandusky (MI)	-	-	-	-	-	-	-	-	36.1	400.8	4.01	-	-	100
Whiting (MI)	905.8	188.3	46.72	.77	-	-	-	-	-	-	-	100	-	-
Coop Power Assoc	5,219.0	90.6	11.75	.55	-	-	-	-	-	-	-	100	-	-
Coal Creek (ND)	5,219.0	90.6	11.75	.55	-	-	-	-	-	-	-	100	-	-
Dairyland Power Coop	2,134.9	166.0	31.04	1.60	-	-	-	-	-	-	-	100	-	-
Alma-Madgett (WI)	1,260.6	171.0	30.72	1.08	-	-	-	-	-	-	-	100	-	-
Genoa No.3 (WI)	798.7	159.7	31.23	2.25	-	-	-	-	-	-	-	100	-	-
Stoneman (WI)	75.6	156.3	34.31	3.37	-	-	-	-	-	-	-	100	-	-
Dallas Pwr & Lt (Texas Utils)	-	-	-	-	182.6	542.3	33.74	.59	65,084.1	373.9	3.86	-	2	98
Dallas (TX)	-	-	-	-	17.3	539.7	33.58	.68	763.1	373.0	3.83	-	12	88
Lake Hubbard (TX)	-	-	-	-	53.0	551.6	34.32	.60	20,267.5	371.8	3.91	-	2	98
Mountain Creek (TX)	-	-	-	-	67.2	552.7	34.39	.58	19,537.5	373.4	3.82	-	2	98
North Lake (TX)	-	-	-	-	2.1	563.8	35.08	.66	20,673.0	376.0	3.84	-	*	100
Parkdale (TX)	-	-	-	-	43.1	514.5	32.01	.56	3,843.0	376.1	3.82	-	6	94
Dayton Power and Lt Co	6,903.2	174.6	40.12	1.07	135.5	707.6	40.65	.30	294.6	463.4	4.68	99	*	*
Tait (OH)	21.8	223.3	55.98	.58	-	-	-	-	42.0	462.4	4.67	93	-	7
Hutchings (OH)	513.0	226.6	57.26	.61	-	-	-	-	179.3	463.4	4.68	99	-	1
Stuart (OH)	6,071.0	168.4	38.19	1.13	15.3	733.9	42.31	.30	-	-	-	100	*	-
Yankee St (GT) (OH)	-	-	-	-	-	-	-	-	73.3	464.0	4.69	-	-	100
Killen (OH)	297.4	194.7	48.72	.58	120.2	704.2	40.44	.29	-	-	-	92	8	-
Deepwater Operating Co (ACE)	82.4	227.6	60.38	.79	662.4	472.7	29.47	.92	1,948.8	440.3	4.55	26	50	24
Deepwater (NJ)	82.4	227.6	60.38	.79	662.4	472.7	29.47	.92	1,948.8	440.3	4.55	26	50	24
Delmarva Power and Lt	1,930.2	214.1	54.00	1.26	3,314.7	475.9	30.06	1.05	4,077.7	406.8	4.20	66	28	6
Delaware City (DE)	-	-	-	-	42.1	466.0	29.15	.70	114.9	457.6	4.80	-	69	31
Edgemoor (DE)	133.5	210.6	56.23	.77	2,609.7	481.0	30.48	.89	3,962.8	405.3	4.19	15	68	17
Indian River (DE)	1,796.6	214.4	53.84	1.30	68.7	725.9	41.77	.25	-	-	-	99	1	-
Vienna (MD)	-	-	-	-	594.1	427.7	26.94	1.85	-	-	-	-	100	-
Denton, City of	-	-	-	-	-	-	-	-	1,713.4	395.6	4.18	-	-	100
Denton-Spencer (TX)	-	-	-	-	-	-	-	-	1,713.4	395.6	4.18	-	-	100
Detroit Edison Co	12,311.7	181.5	43.31	1.50	1,519.5	550.7	33.61	.66	4,000.7	386.5	1.97	96	3	1
Conners Creek (MI)	129.0	208.2	52.35	.84	-	-	-	-	112.0	458.2	4.69	97	-	3
Fermi (MI)	-	-	-	-	3.8	712.0	41.27	.28	-	-	-	-	100	-
Hancock (GT) (MI)	-	-	-	-	-	-	-	-	572.1	376.9	3.82	-	-	100
Harbor Beach (MI)	-	-	-	-	7.2	721.0	41.62	.38	-	-	-	-	100	-
Marysville (MI)	158.0	214.0	53.60	.84	60.7	500.9	30.81	.68	67.4	420.6	4.25	90	8	2
Monroe (MI)	6,426.3	165.8	41.97	2.23	163.4	705.3	40.86	.26	-	-	-	99	1	-
Northeast (GT) (MI)	-	-	-	-	3.3	720.6	41.76	.28	288.1	377.4	3.80	-	6	94
Pennsalt (MI)	120.4	205.1	51.72	.84	14.2	691.5	40.07	.27	-	-	-	97	3	-
Placid (IC) (MI)	-	-	-	-	.1	724.9	42.01	.30	-	-	-	-	100	-
River Rouge (MI)	1,035.0	202.8	48.77	.75	31.7	513.8	31.46	.65	2,726.7	378.7	1.05	96	1	3
St Clair (MI)	3,313.0	190.5	38.17	.60	590.1	531.1	32.71	.82	214.4	401.6	4.05	95	5	*
Superior (GT) (MI)	-	-	-	-	2.8	731.5	42.34	.27	-	-	-	-	100	-
Trenton Channel (MI)	1,130.0	220.0	57.60	.86	47.1	692.8	40.14	.35	20.0	399.2	4.06	99	1	*
Greenwood (MI)	-	-	-	-	595.0	518.9	32.01	.67	-	-	-	-	100	-

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Detroit Pub Ltng Comm	-	-	-	-	309.7	418.5	26.20	0.99	-	-	-	-	100	-
Mistersky (MI)	-	-	-	-	309.7	418.5	26.20	.99	-	-	-	-	100	-
Dover, City of	-	-	-	-	668.8	421.1	26.48	2.36	540.3	420.9	4.34	-	88	12
Mckee Run (DE)	-	-	-	-	668.8	421.1	26.48	2.36	540.3	420.9	4.34	-	88	12
Duke Power	15,957.4	184.5	45.12	0.99	140.6	705.5	40.91	.26	106.6	420.0	4.34	100	*	*
Allen (NC)	2,147.7	184.6	45.91	.92	18.9	707.5	41.06	.25	-	-	-	100	*	-
Buck (NC)	529.5	176.7	44.39	1.01	12.2	718.5	41.36	.30	4.4	495.5	5.12	99	1	*
Cliffside (NC)	1,502.9	153.4	37.12	1.07	20.5	705.0	40.91	.22	-	-	-	100	*	-
Dan River (NC)	306.0	184.1	45.26	.98	15.0	707.4	40.92	.29	-	-	-	99	1	-
Marshall (NC)	5,020.6	198.9	48.46	1.00	15.0	693.7	40.26	.23	-	-	-	100	*	-
Riverbend (NC)	924.7	192.7	47.98	1.14	28.4	698.7	40.46	.26	2.8	438.8	4.53	99	1	*
Buzzard Pt (GT) (SC)	-	-	-	-	9.9	724.6	42.06	.30	10.5	373.8	3.84	-	84	16
Lee (SC)	683.0	166.9	40.18	1.06	10.8	704.9	41.29	.25	88.9	421.2	4.35	99	*	1
Belews Creek (NC)	4,843.0	180.6	44.00	.95	9.9	703.4	40.82	.25	-	-	-	100	*	-
Duquesne Lt	3,046.0	154.8	37.54	1.92	72.1	726.2	41.89	.18	-	-	-	99	1	-
Brunot Is (GT) (PA)	-	-	-	-	10.4	726.2	42.00	.19	-	-	-	-	100	-
Elrama (PA)	1,081.8	145.4	34.28	2.31	14.4	724.7	41.61	.16	-	-	-	100	*	-
Phillips (PA)	598.9	152.4	37.00	2.12	14.1	723.7	41.51	.18	-	-	-	99	1	-
Cheswick (PA)	1,365.4	163.0	40.35	1.52	33.2	727.3	41.70	.18	-	-	-	99	1	-
East Kentucky Rural Elec Coop	1,900.0	152.3	36.50	1.19	-	-	-	-	-	-	-	100	-	-
Cooper (KY)	605.0	122.4	29.45	1.61	-	-	-	-	-	-	-	100	-	-
Dale (KY)	231.0	137.8	33.32	.85	-	-	-	-	-	-	-	100	-	-
Spurlock (KY)	1,064.0	172.5	41.19	1.02	-	-	-	-	-	-	-	100	-	-
Eastern Iowa Lt and Power	148.4	144.9	32.37	2.56	-	-	-	-	11.8	345.2	3.56	100	-	*
Fair (IA)	148.4	144.9	32.37	2.56	-	-	-	-	11.8	345.2	3.56	100	-	*
Easton Util Comm	-	-	-	-	21.0	712.4	41.60	.16	318.4	445.4	4.60	-	27	73
Easton (IC) (MD)	-	-	-	-	21.0	712.4	41.60	.16	318.4	445.4	4.60	-	27	73
El Paso Elec	-	-	-	-	-	-	-	-	24,799.0	366.6	3.77	-	-	100
Copper (TX)	-	-	-	-	-	-	-	-	234.0	382.1	3.90	-	-	100
Rio Grande (TX)	-	-	-	-	-	-	-	-	9,106.0	374.7	3.89	-	-	100
Newman (TX)	-	-	-	-	-	-	-	-	15,457.0	361.5	3.70	-	-	100
Elec Energy	2,241.4	166.6	39.54	1.90	15.9	737.4	42.70	.39	-	-	-	100	*	-
Joppa (IL)	2,241.4	166.6	39.54	1.90	15.9	737.4	42.70	.39	-	-	-	100	*	-
Empire Dist Elec	[1] 748.1	119.1	26.40	5.11	-	-	-	-	143.5	294.0	3.04	99	-	1
Riverton (KS)	136.3	150.3	37.12	2.90	-	-	-	-	143.5	294.0	3.04	96	-	4
Asbury (MO)	[1] 611.7	111.1	24.01	5.60	-	-	-	-	-	-	-	100	-	-
Farmington Elec Utils	-	-	-	-	-	-	-	-	798.8	349.9	3.51	-	-	100
Animas (NM)	-	-	-	-	-	-	-	-	798.8	349.9	3.51	-	-	100
Fitchburg Gas and Elec	-	-	-	-	1.9	781.5	44.19	.20	-	-	-	-	100	-
Fitchburg (MA)	-	-	-	-	1.9	781.5	44.19	.20	-	-	-	-	100	-
Florida Power and Lt	-	-	-	-	31,801.0	432.4	27.24	1.56	109,848.0	161.2	1.61	-	65	35
Cape Canaveral (FL)	-	-	-	-	4,802.0	408.0	25.51	2.32	11,137.0	158.6	1.59	-	73	27
Cutler (FL)	-	-	-	-	19.0	444.7	27.90	.90	1,036.0	175.8	1.76	-	10	90
Fort Myers (FL)	-	-	-	-	4,327.0	402.9	25.45	2.18	-	-	-	-	100	-
Lauderdale (FL)	-	-	-	-	199.0	451.5	28.70	.94	4,275.0	168.4	1.68	-	23	77
Port Everglades (FL)	-	-	-	-	3,540.0	425.8	26.78	1.83	40,255.0	161.3	1.61	-	36	64
Riviera (FL)	-	-	-	-	473.0	457.0	28.75	.95	20,796.0	161.6	1.62	-	13	87
Sanford (FL)	-	-	-	-	5,582.0	409.9	25.92	2.01	3,790.0	157.5	1.58	-	90	10
Turkey Point (FL)	-	-	-	-	2,002.0	458.1	28.96	.94	26,575.0	160.3	1.60	-	32	68
Manatee (FL)	-	-	-	-	6,879.0	443.2	28.08	.91	-	-	-	-	100	-
Martin (FL)	-	-	-	-	3,619.0	492.7	30.82	.85	-	-	-	-	100	-
Putnam (FL)	-	-	-	-	359.0	528.7	32.52	.64	1,764.0	164.6	1.65	-	55	45
Florida Power Corp	[1] 2,808.1	251.7	58.31	1.29	10,929.4	424.8	26.82	2.12	12,254.6	387.9	4.00	44	47	9
Avon Park (FL)	-	-	-	-	103.0	424.3	26.93	2.34	1,476.1	348.9	3.60	-	30	70
Bayboro (GT) (FL)	-	-	-	-	33.0	756.6	43.13	.13	-	-	-	-	100	-
Crystal River (FL)	2,625.8	252.6	61.10	1.38	68.8	765.1	43.61	.18	-	-	-	99	1	-
Turner (FL)	-	-	-	-	477.2	422.5	26.52	1.67	2,606.0	357.5	3.70	-	53	47
Higgins (FL)	-	-	-	-	452.0	417.9	26.54	2.31	552.8	354.2	3.66	-	83	17
Bartow (FL)	-	-	-	-	3,284.3	418.0	26.56	2.26	1,312.4	362.8	3.75	-	94	6

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Florida Power Corp														
Suwannee (FL)	[1] 182.3	215.1	18.16	0.00	157.4	630.1	37.17	0.66	6,305.4	417.9	4.29	17	10	72
Debary (FL)	-	-	-	-	222.0	572.5	34.59	.55	-	-	-	-	100	-
Anclote (FL)	-	-	-	-	6,100.1	412.3	26.07	2.18	-	-	-	-	100	-
Intercession (GT) (FL)	-	-	-	-	31.7	804.5	45.86	.10	-	-	-	-	100	-
Fort Pierce, City of	-	-	-	-	.4	698.9	40.49	.08	2,794.4	281.6	2.91	-	*	100
H D King (FL)	-	-	-	-	.4	698.9	40.49	.08	2,794.4	281.6	2.91	-	*	100
Fremont Dept of Pub Utils	171.9	203.0	42.02	.48	-	-	-	-	53.6	395.5	3.96	99	-	1
Wright (NE)	171.9	203.0	42.02	.48	-	-	-	-	53.6	395.5	3.96	99	-	1
Gainesville-Alachua Cnty Utils	531.6	238.2	60.72	.70	46.7	430.4	27.78	1.38	8,058.2	[2] 285.7	2.95	61	1	38
Deerhaven (FL)	531.6	238.2	60.72	.70	26.7	465.5	29.53	1.30	5,627.5	285.5	2.95	69	1	30
Jr Kelly (FL)	-	-	-	-	20.0	385.4	25.44	1.49	2,430.7	[2] 286.1	2.95	-	5	95
Garland Mun Pwr and Lt	-	-	-	-	73.6	533.1	32.74	.59	11,777.0	399.1	4.14	-	4	96
Newman (TX)	-	-	-	-	13.9	519.3	31.32	.60	166.0	405.8	4.20	-	33	67
Olinger (TX)	-	-	-	-	59.7	536.2	33.07	.59	11,611.0	399.0	4.14	-	3	97
Georgia Power (SC)	20,406.3	185.8	44.49	1.99	196.5	726.0	42.08	.16	174.3	362.7	3.73	100	*	*
Arkwright (GA)	198.0	196.5	48.38	2.03	-	-	-	-	27.5	369.1	3.79	99	-	1
Atkinson-Mcdonough (GA)	805.3	172.2	40.32	2.64	-	-	-	-	146.8	361.5	3.72	99	-	1
Bowen (GA)	7,268.9	176.9	42.94	1.89	78.9	733.3	42.50	.25	-	-	-	100	*	-
Hammond (GA)	1,204.8	179.3	44.45	1.77	12.1	704.6	40.84	.16	-	-	-	100	*	-
Harllee Branch (GA)	2,117.6	206.2	51.32	1.34	16.5	727.6	42.17	.16	-	-	-	100	*	-
Mitchell (GA)	479.2	189.1	46.90	1.26	-	-	-	-	-	-	-	100	-	-
Yates (GA)	2,744.0	180.5	41.72	2.45	24.7	720.4	41.76	.16	-	-	-	100	*	-
Wansley (GA)	4,478.5	169.3	38.26	2.54	26.4	728.3	42.21	.01	-	-	-	100	*	-
Scherer (GA)	1,110.0	284.1	74.94	.65	37.9	718.9	41.67	.08	-	-	-	99	1	-
Glendale Pub Serv Dept	-	-	-	-	-	-	-	-	3,003.7	497.0	5.30	-	-	100
Glendale (CA)	-	-	-	-	-	-	-	-	3,003.7	497.0	5.30	-	-	100
Grand Island Utils	51.2	189.8	30.50	.40	-	-	-	-	213.4	281.9	2.65	80	-	20
Platte (NE)	51.2	189.8	30.50	.40	-	-	-	-	-	-	-	100	-	-
Burdick (NE)	-	-	-	-	-	-	-	-	213.4	281.9	2.65	-	-	100
Grand River Dam Authority	1,679.5	171.8	28.20	.36	47.7	665.4	38.40	.47	-	-	-	99	1	-
GRDA No 1 (OK)	1,679.5	171.8	28.20	.36	47.7	665.4	38.40	.47	-	-	-	99	1	-
Green Mountain Power Corp	-	-	-	-	7.4	798.4	45.09	.15	-	-	-	-	100	-
Berlin No 5 (GT) (VT)	-	-	-	-	7.4	798.4	45.09	.15	-	-	-	-	100	-
Greenville Elec Dept	-	-	-	-	24.9	214.3	12.42	.00	828.7	397.5	4.27	-	14	86
Greenville (TX)	-	-	-	-	24.9	214.3	12.42	.00	828.7	397.5	4.27	-	14	86
Greenwood Utils	55.0	197.8	50.46	1.67	-	-	-	-	7.0	333.4	3.33	100	-	*
Henderson Sta (MS)	55.0	197.8	50.46	1.67	-	-	-	-	7.0	333.4	3.33	100	-	*
Gulf Power	2,411.9	207.8	49.86	2.15	-	-	-	-	408.9	137.8	1.48	99	-	1
Crist (FL)	1,417.7	202.3	48.83	2.58	-	-	-	-	408.9	137.8	1.48	99	-	1
Scholtz (FL)	90.8	223.8	55.03	3.12	-	-	-	-	-	-	-	100	-	-
Smith (FL)	903.4	214.9	50.96	1.37	-	-	-	-	-	-	-	100	-	-
Gulf States Utils	862.0	215.1	37.02	.46	291.0	454.3	28.63	.67	247,175.2	164.7	1.71	5	1	94
Louisiana 2 (LA)	-	-	-	-	-	-	-	-	1,109.0	424.5	4.30	-	-	100
Nelson (LA)	862.0	215.1	37.02	.46	98.0	445.7	28.00	.73	27,294.0	362.4	3.75	34	1	65
Willow Glen (LA)	-	-	-	-	193.0	458.6	28.95	.64	65,051.2	375.8	3.90	-	2	98
Lewis Creek (TX)	-	-	-	-	-	-	-	-	32,814.0	94.4	.97	-	-	100
Neches (TX)	-	-	-	-	-	-	-	-	20,953.0	23.1	.24	-	-	100
Sabine (TX)	-	-	-	-	-	-	-	-	99,954.0	23.1	.24	-	-	100
Hamilton, City of	135.5	181.8	45.05	.72	29.2	746.5	42.95	.21	287.7	369.8	3.70	88	4	8
Hamilton (OH)	135.5	181.8	45.05	.72	29.2	746.5	42.95	.21	287.7	369.8	3.70	88	4	8
Hartford Elec Lt Co(NU)	-	-	-	-	2,579.9	523.7	32.64	.48	-	-	-	-	100	-
Middletown (CT)	-	-	-	-	2,579.9	523.7	32.64	.48	-	-	-	-	100	-
Hastings Utils	116.8	167.7	26.71	.44	-	-	-	-	-	-	-	100	-	-
Hastings (NE)	116.8	167.7	26.71	.44	-	-	-	-	-	-	-	100	-	-

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Hawaii Elec Lt Co	-	-	-	-	486.1	467.1	29.82	1.94	-	-	-	-	100	-
Hill (HI)	-	-	-	-	486.1	467.1	29.82	1.94	-	-	-	-	100	-
Hawaiian Elec	-	-	-	-	8,635.9	678.5	42.71	.48	-	-	-	-	100	-
Honolulu (HI)	-	-	-	-	469.9	682.3	42.80	.49	-	-	-	-	100	-
Kahe (HI)	-	-	-	-	5,885.0	678.1	42.73	.49	-	-	-	-	100	-
Waiau (HI)	-	-	-	-	2,281.0	678.9	42.64	.48	-	-	-	-	100	-
Henderson Mun Pwr and Lt	119.0	138.6	30.09	1.82	-	-	-	-	-	-	-	100	-	-
Henderson (KY)	119.0	138.6	30.09	1.82	-	-	-	-	-	-	-	100	-	-
Holland Bd of Pub Wks	95.4	202.4	51.64	1.41	-	-	-	-	-	-	-	100	-	-
James De Young (MI)	95.4	202.4	51.64	1.41	-	-	-	-	-	-	-	100	-	-
Holyoke Water Power (NU)	387.5	238.4	62.90	1.31	5.1	698.5	41.10	.30	-	-	-	100	*	-
Mount Tom (MA)	387.5	238.4	62.90	1.31	5.1	698.5	41.10	.30	-	-	-	100	*	-
Hoosier Energy Div-Indiana Rec	1,165.2	140.2	30.61	3.29	-	-	-	-	-	-	-	100	-	-
Frank E Ratts (IN)	520.7	113.1	24.94	3.18	-	-	-	-	-	-	-	100	-	-
Merom (IN)	664.5	161.5	35.42	3.38	-	-	-	-	-	-	-	100	-	-
Houston Ltng and Power	6,287.0	272.2	46.11	.39	567.0	276.6	16.75	.68	427,122.0	352.6	3.68	19	1	80
Cedar Bayou (TX)	-	-	-	-	168.1	312.8	19.32	.70	123,148.0	340.4	3.54	-	1	99
Deepwater (TX)	-	-	-	-	1.1	301.9	19.28	.70	6,475.6	421.9	4.43	-	*	100
Green Bayou (TX)	-	-	-	-	130.8	266.6	16.26	.70	26,658.8	350.1	3.66	-	3	97
Clarke (TX)	-	-	-	-	-	-	-	-	2,919.0	422.4	4.44	-	-	100
Robinson (TX)	-	-	-	-	72.3	313.4	19.34	.70	115,847.7	330.0	3.43	-	*	100
Bertron (TX)	-	-	-	-	27.1	314.2	19.28	.70	38,507.8	389.7	4.09	-	*	100
Wharton (TX)	-	-	-	-	8.4	188.9	11.00	.70	39,248.1	350.2	3.69	-	*	100
Parish (TX)	6,287.0	272.2	46.11	.39	159.2	224.6	13.10	.65	54,984.2	380.9	3.98	65	1	35
Webster (TX)	-	-	-	-	-	-	-	-	19,332.9	384.4	3.99	-	-	100
Idaho Power Co	-	-	-	-	-	-	-	-	5.2	534.1	5.74	-	-	100
Wood River (GT) (ID)	-	-	-	-	-	-	-	-	5.2	534.1	5.74	-	-	100
Illinois Power	6,837.1	159.8	34.48	2.46	77.9	529.6	32.64	.71	215.4	427.1	4.43	100	*	*
Baldwin (IL)	4,642.0	133.4	28.60	2.92	8.7	738.6	42.81	.30	-	-	-	100	*	-
Havana (IL)	326.6	275.8	71.07	.67	62.4	479.6	30.00	.81	-	-	-	96	4	-
Hennepin (IL)	542.8	198.8	44.18	2.31	-	-	-	-	12.2	418.4	4.44	100	-	*
Oglesby (GT) (IL)	-	-	-	-	-	-	-	-	10.3	306.2	3.18	-	-	100
Stallings (GT) (IL)	-	-	-	-	-	-	-	-	24.7	305.0	3.13	-	-	100
Vermilion (IL)	551.0	129.5	26.83	2.25	-	-	-	-	-	-	-	100	-	-
Wood River (IL)	774.6	241.0	52.92	.68	6.8	756.4	43.84	.30	168.2	452.6	4.70	99	*	1
Imperial Irrigation Dist	-	-	-	-	439.1	510.0	32.02	1.10	1,176.9	482.7	5.03	-	69	31
El Centro (CA)	-	-	-	-	439.1	510.0	32.02	1.10	950.9	475.2	4.96	-	74	26
Coachella (GT) (CA)	-	-	-	-	-	-	-	-	196.4	515.2	5.37	-	-	100
Rockwood (CA)	-	-	-	-	-	-	-	-	29.6	507.4	5.28	-	-	100
Independence Pwr & Lt, City of	336.7	148.1	34.55	3.56	10.0	822.1	47.45	.21	85.7	347.2	3.51	98	1	1
Missouri City (MO)	38.6	150.3	38.13	3.33	3.1	966.5	55.72	.22	-	-	-	98	2	-
Blue Valley (MO)	298.1	147.8	34.35	3.59	6.2	761.0	43.96	.15	68.7	349.1	3.53	99	1	1
Sub H (GT) (MO)	-	-	-	-	.7	723.8	41.71	.66	17.0	339.7	3.43	-	19	81
Indiana & Michigan Elec (AEP)	2,237.9	198.9	46.57	2.74	-	-	-	-	-	-	-	100	-	-
Breed (IN)	433.0	135.7	30.01	3.92	-	-	-	-	-	-	-	100	-	-
Tanners Creek (IN)	1,804.9	213.1	50.54	2.46	-	-	-	-	-	-	-	100	-	-
Indiana-Kentucky Elec Corp	4,008.0	131.2	29.29	3.49	-	-	-	-	-	-	-	100	-	-
Clifty Creek (IN)	4,008.0	131.2	29.29	3.49	-	-	-	-	-	-	-	100	-	-
Indianapolis Power and Lt	5,431.0	124.6	27.50	2.15	58.5	702.9	40.36	.34	-	-	-	100	*	-
Stout (IN)	1,357.0	144.8	31.92	1.97	16.6	704.2	40.49	.34	-	-	-	100	*	-
Pritchard (IN)	363.0	131.8	29.45	2.54	13.9	710.2	40.57	.40	-	-	-	99	1	-
Perry (IN)	402.0	134.6	29.97	2.39	1.4	709.4	40.83	.30	-	-	-	100	*	-
Petersburg (IN)	3,279.0	114.2	25.14	2.15	26.6	697.8	40.14	.32	-	-	-	100	*	-
Interstate Power	1,594.3	174.9	32.53	1.29	23.3	522.9	32.39	1.40	863.3	320.0	3.18	97	*	3
Dubuque (IA)	140.6	160.6	32.92	2.05	1.1	700.0	41.16	.37	19.1	342.2	3.40	99	*	1
Lansing (IA)	835.7	161.9	30.97	.52	5.6	668.2	39.29	.50	-	-	-	100	*	-
Kapp (IA)	530.7	164.8	34.23	2.38	.2	621.0	36.51	.50	13.3	265.4	2.65	100	*	*
Fox Lake (MN)	87.3	210.6	36.54	.72	16.4	465.0	29.42	1.79	830.8	320.4	3.19	62	4	34

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Iowa Elec Lt and Power	590.0	252.8	53.24	2.79	-	-	-	-	273.0	354.1	3.60	98	-	2
6th St (IA)	27.0	291.3	58.93	.82	-	-	-	-	127.0	321.2	3.33	81	-	19
Prairie Creek (IA)	373.0	257.5	53.61	2.31	-	-	-	-	1.0	310.4	3.22	100	-	*
Sutherland (IA)	190.0	238.8	51.71	4.02	-	-	-	-	145.0	384.5	3.83	97	-	3
Iowa Power and Lt	2,422.0	107.8	17.97	.35	-	-	-	-	252.7	368.7	3.66	99	-	1
Council Bluffs (IA)	2,422.0	107.8	17.97	.35	-	-	-	-	66.6	373.5	3.71	100	-	*
Des Moines (IA)	-	-	-	-	-	-	-	-	151.9	362.8	3.60	-	-	100
River Hills (GT) (IA)	-	-	-	-	-	-	-	-	16.8	388.2	3.86	-	-	100
Sycamore (GT) (IA)	-	-	-	-	-	-	-	-	17.4	383.3	3.80	-	-	100
Iowa Pub Serv	3,246.5	167.6	30.55	.48	4.2	714.1	41.99	0.50	327.9	354.2	3.53	99	*	1
George Neal 1-4 (IA)	3,246.5	167.6	30.55	.48	4.2	714.1	41.99	.50	217.6	350.9	3.50	100	*	*
Maynard (IA)	-	-	-	-	-	-	-	-	38.3	343.9	3.44	-	-	100
Merl Parr (GT) (IA)	-	-	-	-	-	-	-	-	2.6	338.3	3.37	-	-	100
Electrifarm (GT) (IA)	-	-	-	-	-	-	-	-	69.4	370.8	3.69	-	-	100
Iowa Southern Utils	1,859.5	141.1	25.10	.69	16.4	695.7	40.29	.40	-	-	-	100	*	-
Burlington (IA)	298.7	159.4	35.77	2.72	2.5	723.0	41.87	.40	-	-	-	100	*	-
Ottumwa (IA)	1,560.8	136.4	23.06	.30	13.9	690.8	40.01	.40	-	-	-	100	*	-
Iowa-Illinois Gas and Elec	347.7	166.0	32.14	1.86	23.8	525.3	30.56	.00	1,291.5	360.3	3.74	82	2	16
Moline (IL)	-	-	-	-	-	-	-	-	473.3	366.3	3.80	-	-	100
Coralville (GT) (IA)	-	-	-	-	-	-	-	-	9.4	333.2	3.46	-	-	100
Riverside (IA)	216.9	168.6	35.00	2.76	-	-	-	-	808.8	357.1	3.71	84	-	16
Louisa (IA)	129.8	160.7	27.28	.33	23.8	525.3	30.56	.00	-	-	-	94	6	-
Jacksonville Elec Authority	-	-	-	-	6,076.2	430.4	27.56	1.50	-	-	-	-	100	-
Kennedy (FL)	-	-	-	-	1,111.6	448.3	28.63	.99	-	-	-	-	100	-
Northside (FL)	-	-	-	-	4,481.5	424.0	27.18	1.69	-	-	-	-	100	-
Southside (FL)	-	-	-	-	485.0	447.7	28.68	.96	-	-	-	-	100	-
Jamestown Bd of Pub Utils	133.9	154.5	38.56	2.46	-	-	-	-	-	-	-	100	-	-
Samuel A Carlson (NY)	133.9	154.5	38.56	2.46	-	-	-	-	-	-	-	100	-	-
Jersey Cent Pwr and Lt (GPS)	-	-	-	-	761.7	592.9	35.98	.32	18,462.9	502.3	5.17	-	20	80
Werner (NJ)	-	-	-	-	81.7	568.7	34.54	.24	-	-	-	-	100	-
Sayreville (NJ)	-	-	-	-	334.9	558.4	34.32	.29	10,763.5	531.2	5.46	-	16	84
Gilbert (NJ)	-	-	-	-	303.1	618.7	37.23	.40	5,604.7	468.9	4.84	-	24	76
Riegel Sta (GT) (NJ)	-	-	-	-	-	-	-	-	2,094.7	443.4	4.57	-	-	100
Glen Gardner (GT) (NJ)	-	-	-	-	42.0	739.6	42.88	.16	-	-	-	-	100	-
Kansas City Bd Pub Utils	1,226.8	180.9	34.58	1.45	17.0	672.4	38.97	.50	846.3	349.1	3.53	96	*	4
Kaw (KS)	179.3	196.9	44.71	3.36	.9	746.2	43.25	.50	150.0	361.4	3.71	96	*	4
Quindaro (KS)	351.9	204.2	46.22	2.66	5.5	712.0	41.27	.50	696.3	346.4	3.49	92	*	8
Nearman (KS)	695.6	158.9	26.09	.35	10.6	645.7	37.42	.50	-	-	-	99	1	-
Kansas City Power and Lt	6,002.6	123.1	22.62	2.25	92.9	663.2	38.88	.40	2,621.3	356.9	3.66	98	*	2
La Cygne (KS)	3,547.3	113.0	19.64	2.05	3.6	671.2	38.80	.30	-	-	-	100	*	-
Grand Ave (MO)	45.3	163.7	39.91	3.60	-	-	-	-	434.5	372.5	3.85	71	-	29
Hawthorne (MO)	662.3	147.9	33.71	2.45	-	-	-	-	2,186.8	353.8	3.62	87	-	13
Montrose (MO)	1,326.7	131.1	26.25	6.06	-	-	-	-	-	-	-	100	-	-
Northeast (MO)	-	-	-	-	65.7	660.2	38.85	.43	-	-	-	-	100	-
Iatan (MO)	2,421.0	122.9	21.64	.35	13.6	675.9	39.07	.30	-	-	-	100	*	-
Kansas Gas and Elec	-	-	-	-	94.0	356.5	22.56	1.31	27,573.0	249.9	2.43	-	2	98
Evans (KS)	-	-	-	-	15.0	398.4	25.15	1.60	19,266.0	250.9	2.43	-	1	99
Gill (KS)	-	-	-	-	79.0	348.6	22.07	1.26	7,917.0	244.4	2.39	-	6	94
Neosho (KS)	-	-	-	-	-	-	-	-	300.0	312.0	3.13	-	-	100
Ripley (KS)	-	-	-	-	-	-	-	-	90.0	308.2	3.14	-	-	100
Kansas Power and Lt Co	6,266.3	135.5	23.76	.42	227.1	419.5	26.37	1.08	7,981.9	224.4	2.29	92	1	7
Hutchinson (KS)	-	-	-	-	164.0	407.7	25.62	1.10	7,076.6	219.3	2.24	-	12	88
Lawrence (KS)	848.5	202.6	42.80	.69	-	-	-	-	146.6	315.1	3.25	99	-	1
Abilene (KS)	-	-	-	-	2.4	633.2	36.70	.30	427.0	203.1	2.04	-	3	97
Tecumseh (KS)	347.4	202.0	42.71	.69	2.0	706.2	40.93	.30	331.5	318.2	3.29	95	*	4
Jeffrey Energy Cnt (KS)	5,072.4	115.5	19.27	.36	58.7	435.3	27.54	1.07	-	-	-	100	*	-
Kentucky Power (AEP)	2,144.0	162.4	38.99	1.02	-	-	-	-	-	-	-	100	-	-
Big Sandy (KY)	2,144.0	162.4	38.99	1.02	-	-	-	-	-	-	-	100	-	-
Kentucky Utils	4,276.3	172.7	40.99	1.92	-	-	-	-	1.4	510.0	5.10	100	-	*

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Kentucky Utils														
Brown (KY)	1,157.8	147.7	34.65	2.00	-	-	-	-	-	-	-	100	-	-
Ghent (KY)	2,622.0	190.0	45.71	1.85	-	-	-	-	-	-	-	100	-	-
Green River (KY)	461.8	134.4	30.24	2.20	-	-	-	-	-	-	-	100	-	-
Haefling (GT) (KY)	-	-	-	-	-	-	-	-	1.4	510.0	5.10	-	-	100
Pineville (KY)	13.4	133.3	32.74	.88	-	-	-	-	-	-	-	100	-	-
Tyrone (KY)	21.3	161.1	43.21	1.32	-	-	-	-	-	-	-	100	-	-
Key West, Util Bd of	-	-	-	-	697.8	423.3	26.74	2.24	-	-	-	-	100	-
Key West (FL)	-	-	-	-	228.8	444.7	27.95	2.10	-	-	-	-	100	-
Stock Island (FL)	-	-	-	-	469.0	412.9	26.15	2.31	-	-	-	-	100	-
Lafayette Util Sys, City of	-	-	-	-	-	-	-	-	9,536.2	349.6	3.71	-	-	100
Bonin (LA)	-	-	-	-	-	-	-	-	9,190.9	349.3	3.70	-	-	100
Rodemacher (LA)	-	-	-	-	-	-	-	-	345.3	356.8	3.89	-	-	100
Lake Superior Dist Power	[1] 144.6	169.1	25.83	.79	-	-	-	-	6.9	327.1	3.25	100	-	*
Bay Front (WI)	[1] 144.6	169.1	25.83	.79	-	-	-	-	6.9	327.1	3.25	100	-	*
Lake Worth Utils	-	-	-	-	16.7	535.6	32.58	1.57	3,171.2	333.0	3.44	-	3	97
Tom G Smith (FL)	-	-	-	-	16.7	535.6	32.58	1.57	3,171.2	333.0	3.44	-	3	97
Lakeland, City of	321.0	217.9	51.36	1.99	1,149.2	484.8	30.40	1.12	8,175.4	279.2	2.89	33	31	36
Larsen Mem (FL)	-	-	-	-	35.9	412.8	25.75	2.38	5,784.4	278.6	2.88	-	4	96
Plant 3-Mcintosh (FL)	321.0	217.9	51.36	1.99	1,113.3	487.1	30.55	1.08	2,391.0	280.5	2.90	44	41	15
Lamar Utils Bd	-	-	-	-	-	-	-	-	1,033.8	227.0	2.26	-	-	100
Lamar (CO)	-	-	-	-	-	-	-	-	1,033.8	227.0	2.26	-	-	100
Lansing Bd of Water and Lt	1,003.3	232.0	58.74	.74	-	-	-	-	-	-	-	100	-	-
Eckert (MI)	495.4	232.5	58.83	.74	-	-	-	-	-	-	-	100	-	-
Erickson (MI)	458.5	232.0	58.56	.74	-	-	-	-	-	-	-	100	-	-
Ottawa (MI)	49.4	227.1	59.62	.78	-	-	-	-	-	-	-	100	-	-
Lea County Elec Coop	-	-	-	-	-	-	-	-	2,472.6	311.4	3.51	-	-	100
Lovington (NM)	-	-	-	-	-	-	-	-	2,472.6	311.4	3.51	-	-	100
Lincoln Elec Sys	-	-	-	-	7.9	625.3	36.22	.30	2.2	394.2	3.92	-	95	5
8th and J (NE)	-	-	-	-	.7	617.5	35.53	.34	1.3	395.2	3.93	-	76	24
K Street (Ret) (NE)	-	-	-	-	-	-	-	-	.9	392.7	3.90	-	-	100
Rokeby (NE)	-	-	-	-	7.2	626.0	36.28	.30	-	-	-	-	100	-
Logansport Indiana Elec Dept	63.6	178.4	40.59	1.08	.4	695.8	40.33	1.00	-	-	-	100	*	-
Logansport (IN)	63.6	178.4	40.59	1.08	.4	695.8	40.33	1.00	-	-	-	100	*	-
Long Island Ltng	-	-	-	-	15,414.0	422.2	26.68	1.99	21,646.0	405.9	4.19	-	81	19
Barrett (NY)	-	-	-	-	792.0	467.1	29.40	1.41	17,306.0	405.2	4.18	-	22	78
Glenwood (NY)	-	-	-	-	287.0	493.0	30.88	.87	4,340.0	408.6	4.22	-	29	71
Northport (NY)	-	-	-	-	10,848.0	419.0	26.49	2.02	-	-	-	-	100	-
Port Jefferson (NY)	-	-	-	-	3,333.0	403.7	25.60	2.23	-	-	-	-	100	-
Shoreham (GT) (NY)	-	-	-	-	4.0	704.7	41.01	.15	-	-	-	-	100	-
W Babylon (GT) (NY)	-	-	-	-	3.0	693.8	40.42	.15	-	-	-	-	100	-
Holbrook (GT) (NY)	-	-	-	-	147.0	710.2	41.20	.15	-	-	-	-	100	-
Los Angeles Dept of Wtr &d Pwr	-	-	-	-	1,254.0	560.9	34.30	.26	26,789.0	485.5	5.10	-	21	79
Harbor (CA)	-	-	-	-	-	-	-	-	860.0	495.0	5.18	-	-	100
Haynes (CA)	-	-	-	-	1,016.0	579.6	35.38	.27	19,300.0	484.2	5.07	-	23	77
Scattergood (CA)	-	-	-	-	139.0	477.4	29.42	.20	5,934.0	487.9	5.16	-	12	88
Valley (CA)	-	-	-	-	99.0	487.4	30.09	.25	695.0	490.1	5.18	-	45	55
Louisiana Power and Lt (MSU)	-	-	-	-	272.2	465.6	29.18	.88	147,887.4	236.6	2.48	-	1	99
Little Gypsy (LA)	-	-	-	-	11.0	618.7	38.11	.21	39,715.0	123.9	1.29	-	*	100
Nine Mile (LA)	-	-	-	-	87.0	594.6	36.53	.26	70,539.0	221.1	2.32	-	1	99
Sterlington (LA)	-	-	-	-	7.0	562.7	33.21	.23	14,281.0	343.6	3.59	-	*	100
Monroe (LA)	-	-	-	-	1.0	635.5	36.01	.30	3,289.0	400.9	4.01	-	*	100
Thibodaux (LA)	-	-	-	-	2.6	659.1	38.31	.30	8.4	453.0	4.53	-	65	35
Waterford (LA)	-	-	-	-	163.6	381.8	24.30	.96	20,055.0	409.4	4.34	-	5	95
Louisville Gas and Elec	3,392.3	133.9	29.60	3.45	70.2	683.3	40.18	.20	1,695.9	335.5	3.44	97	1	2
Cane Run (KY)	1,084.4	134.7	30.16	3.30	33.7	690.7	40.61	.19	1,286.4	333.5	3.42	94	1	5
Mill Creek (KY)	2,307.9	133.6	29.34	3.52	36.5	676.4	39.77	.20	245.5	347.1	3.56	99	*	*
Paddys Run (KY)	-	-	-	-	-	-	-	-	48.5	328.4	3.37	-	-	100
Waterside (GT) (KY)	-	-	-	-	-	-	-	-	15.5	334.9	3.43	-	-	100

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Lower Colorado River Authority	3,966.0	254.9	46.83	0.37	15.9	660.9	39.14	1.00	14,033.0	419.0	4.15	84	*	16
Gideon (TX)	-	-	-	-	-	-	-	-	6,427.0	414.8	4.11	-	-	100
T C Ferguson (TX)	-	-	-	-	-	-	-	-	7,606.0	422.5	4.17	-	-	100
S Seymour-Fayette (TX)	3,966.0	254.9	46.83	.37	15.9	660.9	39.14	1.00	-	-	-	100	*	-
Lubbock Power and Lt Dept	-	-	-	-	20.9	526.8	30.53	.31	6,771.0	338.3	3.49	-	2	98
Holly Ave (TX)	-	-	-	-	16.4	506.0	29.33	.31	6,296.1	338.0	3.48	-	1	99
Plant 2 (TX)	-	-	-	-	4.5	602.5	34.92	.31	474.9	342.2	3.56	-	5	95
Madison Gas and Elec	76.2	189.7	41.50	1.37	2.0	672.3	38.97	.50	1,023.9	410.5	4.10	62	*	38
Fitchburg (GT) (WI)	-	-	-	-	.8	672.3	38.97	.50	59.3	410.4	4.11	-	7	93
Blount (WI)	76.2	189.7	41.50	1.37	.6	672.3	38.97	.50	893.2	411.1	4.11	65	*	35
Sycamore (GT) (WI)	-	-	-	-	.6	672.3	38.97	.50	71.4	402.9	4.05	-	5	95
Manitowoc Pub Utils	63.1	234.8	57.41	1.73	-	-	-	-	-	-	-	100	-	-
Manitowoc (WI)	63.1	234.8	57.41	1.73	-	-	-	-	-	-	-	100	-	-
Marquette Bd of Lt and Power	151.1	202.3	43.70	.96	-	-	-	-	-	-	-	100	-	-
Shiras (MI)	151.1	202.3	43.70	.96	-	-	-	-	-	-	-	100	-	-
Marshall Mun Utils	35.0	146.8	33.93	2.84	-	-	-	-	364.0	344.2	3.44	69	-	31
Marshall (MO)	35.0	146.8	33.93	2.84	-	-	-	-	364.0	344.2	3.44	69	-	31
Marshfield Elec and Wtr Dept	54.0	217.0	52.45	2.43	-	-	-	-	18.2	396.1	4.01	99	-	1
Wildwood (WI)	54.0	217.0	52.45	2.43	-	-	-	-	18.2	396.1	4.01	99	-	1
Massachusetts Mun Wlsale E Co	-	-	-	-	104.0	700.3	41.08	.00	2,362.0	426.8	4.32	-	20	80
Stonybrook (MA)	-	-	-	-	104.0	700.3	41.08	.00	2,362.0	426.8	4.32	-	20	80
Maui Elec	-	-	-	-	832.4	586.3	35.88	1.15	-	-	-	-	100	-
Kahului (HI)	-	-	-	-	439.5	454.9	29.04	1.88	-	-	-	-	100	-
Maalaea (HI)	-	-	-	-	392.9	747.3	43.52	.33	-	-	-	-	100	-
Mcpherson Bd of Pub Utils	-	-	-	-	8.0	770.1	41.79	.10	735.7	237.2	2.25	-	6	94
Mcpherson (CS) (KS)	-	-	-	-	8.0	770.1	41.79	.10	735.7	237.2	2.25	-	6	94
Medina Elec Coop	-	-	-	-	-	-	-	-	2,157.3	413.1	4.40	-	-	100
Pearsall (TX)	-	-	-	-	-	-	-	-	2,157.3	413.1	4.40	-	-	100
Menasha Elec and Wtr Utils	23.9	212.9	52.93	2.01	-	-	-	-	-	-	-	100	-	-
Menasha (WI)	23.9	212.9	52.93	2.01	-	-	-	-	-	-	-	100	-	-
Metropolitan Edison (GPS)	1,126.9	190.4	48.48	1.81	53.3	717.8	41.37	.17	389.3	458.7	4.71	98	1	1
Hunterstown (GT) (PA)	-	-	-	-	1.7	751.0	43.10	.21	38.1	490.3	5.05	-	20	80
Mountain (GT) (PA)	-	-	-	-	-	-	-	-	114.7	463.9	4.78	-	-	100
Portland (PA)	599.8	184.3	46.77	2.11	23.4	716.8	41.13	.14	151.6	437.8	4.48	98	1	1
Titus (PA)	527.1	197.3	50.42	1.47	26.8	716.3	41.45	.18	84.9	474.7	4.89	98	1	1
Tolna (GT) (PA)	-	-	-	-	1.3	724.6	41.76	.20	-	-	-	-	100	-
Michigan St University	158.7	211.8	52.92	.82	-	-	-	-	37.6	407.1	4.07	99	-	1
Plant No.65 (MI)	158.7	211.8	52.92	.82	-	-	-	-	37.6	407.1	4.07	99	-	1
Minden, City of	-	-	-	-	.5	751.0	43.53	.10	541.7	339.0	3.40	-	*	100
Minden (LA)	-	-	-	-	.5	751.0	43.53	.10	541.7	339.0	3.40	-	*	100
Minnesota Power and Lt	2,932.2	113.2	19.46	.82	8.3	721.0	41.79	.00	3.2	406.9	4.07	100	*	*
Aurora-Syl Laskin (MN)	25.6	143.1	23.72	1.00	-	-	-	-	-	-	-	100	-	-
Boswell (MN)	2,906.6	113.0	19.43	.82	-	-	-	-	-	-	-	100	-	-
Hibbard (MN)	-	-	-	-	8.3	721.0	41.79	.00	3.2	406.9	4.07	-	94	6
Minnkota Power Coop	2,983.9	49.8	6.58	.62	42.8	716.6	42.14	.20	-	-	-	99	1	-
Young (ND)	2,983.9	49.8	6.58	.62	42.8	716.6	42.14	.20	-	-	-	99	1	-
Mississippi Power (SC)	2,919.4	248.0	59.64	1.46	14.1	704.4	40.76	.27	4,961.8	368.5	3.82	93	*	7
Eaton (MS)	-	-	-	-	.1	733.1	42.85	.25	-	-	-	-	100	-
Standard Oil (GT) (MS)	-	-	-	-	-	-	-	-	3,634.2	349.6	3.63	-	-	100
Sweatt (MS)	-	-	-	-	-	-	-	-	30.7	418.6	4.65	-	-	100
Watson (MS)	1,299.8	190.0	46.64	2.57	-	-	-	-	1,296.9	420.4	4.35	96	-	4
Jackson Ct-Daniel (MS)	1,619.6	296.3	70.08	.57	14.0	704.2	40.75	.27	-	-	-	100	*	-
Mississippi Pwr and Lt (MSU)	.5	269.8	59.35	.59	309.2	401.5	25.29	2.61	74,671.3	311.3	3.18	*	2	97
Wilson (MS)	-	-	-	-	250.9	385.1	24.36	2.75	40,291.8	312.5	3.23	-	4	96

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Mississippi Pwr and Lt (MSU)														
Delta (MS)	0.5	269.8	59.35	0.59	-	-	-	-	2,628.4	361.6	3.66	*	-	100
Natchez (MS)	-	-	-	-	1.9	503.6	32.23	0.68	117.7	446.1	4.22	-	10	90
Brown (MS)	-	-	-	-	.4	736.9	42.42	.38	19,529.4	265.6	2.67	-	*	100
Gerald Andrus (MS)	-	-	-	-	56.0	470.6	29.11	2.06	12,104.0	368.7	3.71	-	3	97
Missouri Power and Lt	-	-	-	-	1.7	698.6	41.08	.10	-	-	-	-	100	-
Fairgrounds (MO)	-	-	-	-	1.7	698.6	41.08	.10	-	-	-	-	100	-
Missouri Pub Serv	859.8	174.7	37.85	3.28	-	-	-	-	254.2	397.9	4.03	99	-	1
Green (MO)	-	-	-	-	-	-	-	-	246.1	399.4	4.04	-	-	100
Sibley (MO)	859.8	174.7	37.85	3.28	-	-	-	-	-	-	-	100	-	-
Kci Energy Center (MO)	-	-	-	-	-	-	-	-	8.1	354.4	3.70	-	-	100
Monongahela Power (APS)	[1] 11,104.9	156.2	39.60	2.52	116.5	716.2	42.42	.30	131.2	415.3	4.15	100	*	*
Albright (WV)	702.6	137.9	33.58	1.79	10.9	711.3	42.13	.30	-	-	-	100	*	-
FT MARTIN (WV)	2,284.6	173.5	42.87	1.84	42.7	707.7	41.91	.30	-	-	-	100	*	-
Harrison (WV)	4,628.7	152.1	39.83	2.89	2.1	732.9	43.40	.30	131.2	415.3	4.15	100	*	*
Rivesville (WV)	[1] 323.1	154.0	38.00	.97	4.0	698.2	41.34	.30	-	-	-	100	*	-
Willow Island (WV)	454.0	176.2	43.36	1.15	6.8	734.8	43.52	.30	-	-	-	100	*	-
Pleasants (WV)	2,711.9	150.7	37.59	3.07	50.0	722.9	42.81	.30	-	-	-	100	*	-
Montana Power Co	2,424.0	53.5	9.25	.68	29.0	516.2	19.90	.00	285.0	143.2	1.71	99	*	1
Bird (MT)	-	-	-	-	-	-	-	-	48.0	348.4	3.94	-	-	100
Corette (MT)	321.0	83.9	14.64	.70	-	-	-	-	237.0	104.1	1.25	95	-	5
Colstrip No.1 (MT)	2,103.0	48.8	8.43	.67	29.0	516.2	19.90	.00	-	-	-	100	*	-
Montana-Dakota Utils	2,325.0	85.8	11.84	.80	26.4	728.0	42.06	.30	36.9	417.5	4.33	99	*	*
Glendive (MT)	-	-	-	-	.3	542.1	30.05	.30	3.2	401.8	4.10	-	34	66
Heskett (ND)	478.9	88.2	12.20	.77	-	-	-	-	-	-	-	100	-	-
Lewis and Clark (MT)	177.1	129.4	17.07	.48	-	-	-	-	33.7	418.0	4.36	99	-	1
Coyote (ND)	1,669.0	80.8	11.19	.84	26.1	730.0	42.20	.30	-	-	-	99	1	-
Montaup Elec	-	-	-	-	1,503.8	412.0	25.99	2.06	-	-	-	-	100	-
Somerset (MA)	-	-	-	-	1,503.8	412.0	25.99	2.06	-	-	-	-	100	-
Moorhead Pub Serv Dept	.7	127.0	17.90	.81	-	-	-	-	-	-	-	100	-	-
Moorhead (MN)	.7	127.0	17.90	.81	-	-	-	-	-	-	-	100	-	-
Muscatine Power and Water	382.6	169.2	38.78	3.11	-	-	-	-	-	-	-	100	-	-
Muscatine (IA)	382.6	169.2	38.78	3.11	-	-	-	-	-	-	-	100	-	-
Narragansett Elec Co(NEES)	-	-	-	-	979.5	460.1	26.92	1.06	807.4	396.2	4.04	-	88	12
Manchester St (RI)	-	-	-	-	759.0	466.4	29.26	.97	807.4	396.2	4.04	-	85	15
South St (RI)	-	-	-	-	220.5	438.6	27.74	1.36	-	-	-	-	100	-
Natchitoches, City of	-	-	-	-	.2	711.0	40.31	.00	683.4	397.7	3.98	-	*	100
Natchitoches (LA)	-	-	-	-	.2	711.0	40.31	.00	683.4	397.7	3.98	-	*	100
Nebraska Pub Power Sys	3,392.4	101.1	16.28	.38	111.3	668.6	38.76	.27	378.5	285.5	2.94	98	1	1
Hallam Pkg (GT) (NE)	-	-	-	-	.5	658.2	37.46	.30	-	-	-	-	100	-
Hebon Pkg (GT) (NE)	-	-	-	-	5.1	719.2	41.33	.00	-	-	-	-	100	-
Kramer (NE)	95.9	174.4	35.96	.44	-	-	-	-	8.2	407.5	4.06	100	-	*
Mccook Pkg (GT) (NE)	-	-	-	-	1.4	667.8	38.00	.30	-	-	-	-	100	-
Bluffs (NE)	-	-	-	-	-	-	-	-	370.3	282.9	2.92	-	-	100
Sheldon (NE)	157.1	241.6	59.01	.92	-	-	-	-	-	-	-	100	-	-
Gerald Gentleman (NE)	3,139.5	88.8	15.70	.35	104.3	666.2	38.65	.28	-	-	-	99	1	-
Nevada Power	1,086.8	186.6	43.19	.51	-	-	-	-	6,442.4	372.5	3.97	79	-	21
Clark (NV)	-	-	-	-	-	-	-	-	4,059.5	370.4	3.95	-	-	100
Gardner (NV)	1,085.8	186.6	43.19	.51	-	-	-	-	-	-	-	100	-	-
Sunrise (NV)	-	-	-	-	-	-	-	-	2,383.0	376.0	4.01	-	-	100
New England Power (NEES)	2,701.5	250.7	65.93	1.26	7,771.8	399.2	25.14	2.05	-	-	-	59	41	-
Brayton (MA)	2,159.4	249.4	65.49	1.24	3,934.0	399.0	25.16	2.03	-	-	-	70	30	-
Gloucester (IC) (MA)	-	-	-	-	9.8	713.0	41.34	.20	-	-	-	-	100	-
Salem Harbor (MA)	542.1	255.6	67.66	1.36	3,820.0	398.0	25.06	2.08	-	-	-	37	63	-
Uxbridge (GT) (MA)	-	-	-	-	8.0	704.8	40.64	.20	-	-	-	-	100	-
New Mexico Elec Serv	-	-	-	-	-	-	-	-	7,263.0	348.3	3.61	-	-	100
Maddox (NM)	-	-	-	-	-	-	-	-	7,263.0	348.3	3.61	-	-	100

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
New Orleans Pub Serv (MSU)	-	-	-	-	696.1	366.6	23.32	1.51	36,567.8	388.3	4.09	-	10	90
Paterson (LA)	-	-	-	-	18.0	394.3	24.54	1.39	6,369.2	380.9	4.00	-	2	98
Market St (LA)	-	-	-	-	-	-	-	-	1,505.6	396.8	4.15	-	-	100
Michoud (LA)	-	-	-	-	678.2	366.1	23.29	1.52	28,693.0	389.5	4.11	-	12	88
New Ulm, Pub Utils Comm	52.8	203.4	50.69	1.86	-	-	-	-	491.0	319.0	3.19	73	-	27
New Ulm (MN)	52.8	203.4	50.69	1.86	-	-	-	-	491.0	319.0	3.19	73	-	27
New York State Elec and Gas	2,528.0	171.9	40.62	1.63	-	-	-	-	-	-	-	100	-	-
Goudey (NY)	410.2	169.9	40.42	1.85	-	-	-	-	-	-	-	100	-	-
Greenidge (NY)	617.9	181.5	46.38	2.16	-	-	-	-	-	-	-	100	-	-
Hickling (NY)	383.7	146.8	33.04	1.10	-	-	-	-	-	-	-	100	-	-
Jennison (NY)	320.4	160.4	34.99	.95	-	-	-	-	-	-	-	100	-	-
Milliken (NY)	795.8	180.8	42.17	1.63	-	-	-	-	-	-	-	100	-	-
Niagra-Mohawk Power	3,130.0	192.1	49.27	1.86	6,252.0	487.6	30.31	1.79	20,236.0	380.1	3.91	57	28	15
Albany (NY)	-	-	-	-	547.0	414.9	25.77	1.96	20,236.0	380.1	3.91	-	14	86
Huntley (NY)	1,682.0	201.9	52.36	1.60	-	-	-	-	-	-	-	100	-	-
Dunkirk (NY)	1,448.0	180.4	45.67	2.15	-	-	-	-	-	-	-	100	-	-
Oswego (NY)	-	-	-	-	5,698.0	494.3	30.73	1.78	-	-	-	-	100	-
Rotterdam (GT) (NY)	-	-	-	-	7.0	740.5	42.76	.30	-	-	-	-	100	-
Northern Indiana Pub Serv	4,170.1	249.0	54.23	1.56	270.7	679.9	39.71	.45	2,341.1	356.8	3.57	96	2	2
Bailly (IN)	868.4	188.3	40.83	2.98	.6	647.7	37.81	.30	645.6	380.9	3.81	97	*	3
Mitchell (IN)	778.8	302.5	66.69	.55	10.1	736.1	42.98	.30	728.4	340.0	3.40	96	*	4
Michigan City (IN)	1,094.6	213.4	45.21	2.50	-	-	-	-	967.1	353.3	3.53	96	-	4
Rollin Schahfer (IN)	1,428.3	282.0	62.50	.54	260.0	677.8	39.58	.46	-	-	-	95	5	-
Northern Michigan Elec Coop	130.5	215.0	53.93	1.68	-	-	-	-	-	-	-	100	-	-
Advance (MI)	130.5	215.0	53.93	1.68	-	-	-	-	-	-	-	100	-	-
Northern States Power	[1] 7,398.4	127.3	22.90	.94	-	-	-	-	319.6	359.0	3.64	100	-	*
Black Dog (MN)	369.5	148.9	28.34	1.71	-	-	-	-	43.1	395.9	3.98	99	-	1
High Bridge (MN)	303.3	141.7	26.71	1.62	-	-	-	-	258.9	350.5	3.56	96	-	4
King (MN)	[1] 1,222.3	138.7	26.29	1.32	-	-	-	-	-	-	-	100	-	-
Minn Valley (MN)	-	-	-	-	-	-	-	-	10.4	416.0	4.20	-	-	100
Riverside (MN)	[1] 639.8	126.0	23.57	1.17	-	-	-	-	-	-	-	100	-	-
W Faribault (GT) (MN)	-	-	-	-	-	-	-	-	.2	333.1	3.28	-	-	100
Pathfinder (SD)	-	-	-	-	-	-	-	-	6.4	367.5	3.65	-	-	100
French Is (CS) (WI)	[1] 39.2	138.2	13.52	.11	-	-	-	-	.6	333.1	3.38	100	-	*
Sherburne County (MN)	4,824.3	121.6	21.37	.72	-	-	-	-	-	-	-	100	-	-
Ohio Edison	6,302.3	158.7	38.77	2.35	133.7	[2] 870.3	50.41	.49	-	-	-	99	1	-
Edgewater (OH)	244.4	187.2	45.19	1.59	12.6	[2] 897.6	51.82	.45	-	-	-	99	1	-
Gorge Steam (OH)	165.9	144.7	35.12	2.49	2.6	712.4	41.11	.47	-	-	-	100	*	-
Mad River (OH)	59.5	174.7	41.75	.95	-	-	-	-	-	-	-	100	-	-
Niles (OH)	595.7	129.6	31.18	2.55	10.4	694.3	40.21	.49	-	-	-	100	*	-
Burger (OH)	1,048.1	190.7	47.48	3.91	7.0	720.5	41.90	.52	-	-	-	100	*	-
Sammis (OH)	3,868.1	155.8	38.00	1.88	34.8	724.9	42.12	.48	-	-	-	100	*	-
Toronto (OH)	320.6	122.7	30.03	3.30	3.0	727.2	42.56	.53	-	-	-	100	*	-
W Lorain (GT) (OH)	-	-	-	-	63.3	[2] 1,004.3	58.05	.49	-	-	-	-	100	-
Ohio Power (AEP)	12,314.5	179.0	38.87	3.22	-	-	-	-	-	-	-	100	-	-
Muskingum (OH)	3,367.2	156.3	35.65	4.59	-	-	-	-	-	-	-	100	-	-
Kammer (WV)	1,848.6	95.6	22.89	4.08	-	-	-	-	-	-	-	100	-	-
Mitchell (WV)	3,026.0	180.3	43.07	2.48	-	-	-	-	-	-	-	100	-	-
Gavin (OH)	5,072.7	234.6	44.31	2.44	-	-	-	-	-	-	-	100	-	-
Ohio Valley Elec Coop	3,065.0	145.5	34.97	3.75	-	-	-	-	-	-	-	100	-	-
Kyger Creek (OH)	3,065.0	145.5	34.97	3.75	-	-	-	-	-	-	-	100	-	-
Oklahoma Gas and Elec	5,277.5	146.3	25.68	.36	-	-	-	-	132,548.9	204.1	2.12	40	-	60
Arbuckle (OK)	-	-	-	-	-	-	-	-	3,011.3	204.0	2.12	-	-	100
Enid (GT) (OK)	-	-	-	-	-	-	-	-	3.6	210.0	2.18	-	-	100
Horseshoe Lake (OK)	-	-	-	-	-	-	-	-	37,474.5	203.7	2.11	-	-	100
Muskogee (OK)	2,748.6	142.1	25.16	.35	-	-	-	-	10,542.5	201.6	2.09	82	-	18
Mustang (OK)	-	-	-	-	-	-	-	-	19,387.3	204.8	2.12	-	-	100
Seminole (OK)	-	-	-	-	-	-	-	-	62,129.7	204.5	2.12	-	-	100
Sooner (OK)	2,528.9	150.8	26.66	.36	-	-	-	-	-	-	-	100	-	-
Omaha Pub Power Dist	2,118.6	130.8	22.76	.45	2.5	661.1	38.32	.10	157.9	370.0	3.68	100	*	*
Jones St (NE)	-	-	-	-	-	-	-	-	6.5	364.1	3.57	-	-	100

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Omaha Pub Power Dist														
North Omaha (NE)	598.6	159.5	32.04	0.73	-	-	-	-	136.3	371.5	3.70	99	-	1
Sarpy County (GT) (NE)	-	-	-	-	-	-	-	-	15.2	358.8	3.57	-	-	100
Nebraska City (NE)	1,520.0	116.9	19.10	.34	2.5	661.1	38.32	0.10	-	-	-	100	*	-
Opelousas Mun Elec Dept	-	-	-	-	-	-	-	-	232.4	485.9	4.86	-	-	100
Opelousas (LA)	-	-	-	-	-	-	-	-	232.4	485.9	4.86	-	-	100
Orange and Rockland Utils	-	-	-	-	5,340.4	511.7	31.67	.52	17,068.0	377.4	3.88	-	65	35
Bowline (NY)	-	-	-	-	4,803.0	508.9	31.53	.54	5,333.3	381.7	3.92	-	84	16
Hillburn (GT) (NY)	-	-	-	-	-	-	-	-	19.9	388.2	3.99	-	-	100
Lovett (NY)	-	-	-	-	537.4	536.9	32.99	.30	11,639.1	375.4	3.86	-	22	78
Shoemaker (GT) (NY)	-	-	-	-	-	-	-	-	75.7	381.5	3.92	-	-	100
Orlando Utils Comm	-	-	-	-	1,007.6	[2] 444.1	27.88	1.60	17,982.2	300.8	3.11	-	25	75
Indian River (FL)	-	-	-	-	1,007.6	[2] 444.1	27.88	1.60	17,696.5	301.0	3.11	-	26	74
Lake Highland (FL)	-	-	-	-	-	-	-	-	285.7	290.8	3.01	-	-	100
Orrville Mun Utils	91.7	146.2	36.31	3.48	-	-	-	-	-	-	-	100	-	-
Vine Street (OH)	91.7	146.2	36.31	3.48	-	-	-	-	-	-	-	100	-	-
Otter Tail Power	2,452.9	120.9	15.20	.87	11.6	649.4	37.64	.31	-	-	-	100	*	-
Hoot Lake (MN)	454.1	141.8	19.48	.83	-	-	-	-	-	-	-	100	-	-
Big Stone (SD)	1,998.8	115.5	14.23	.88	11.6	649.4	37.64	.31	-	-	-	100	*	-
Owatonna Pub Utils	-	-	-	-	-	-	-	-	731.7	332.2	3.31	-	-	100
Central (MN)	-	-	-	-	-	-	-	-	731.7	332.2	3.31	-	-	100
Owensboro Mun Utils	1,058.0	159.5	34.14	2.63	-	-	-	-	-	-	-	100	-	-
Smith (KY)	1,058.0	159.5	34.14	2.63	-	-	-	-	-	-	-	100	-	-
Pacific Gas and Elec	-	-	-	-	2,249.5	596.3	37.05	.37	205,771.0	509.6	5.37	-	6	94
Avon (CA)	-	-	-	-	11.7	617.6	39.31	.31	2,070.5	616.0	7.09	-	3	97
Contra Costa (CA)	-	-	-	-	-	-	-	-	31,937.7	505.1	5.24	-	-	100
Humboldt Bay (CA)	-	-	-	-	2.3	698.5	40.68	.11	2,864.9	504.3	5.16	-	*	100
Hunters Point (CA)	-	-	-	-	-	-	-	-	15,239.7	502.4	5.23	-	-	100
Kern (CA)	-	-	-	-	-	-	-	-	493.0	521.3	5.59	-	-	100
Martinez (CA)	-	-	-	-	73.2	619.2	38.66	.45	1,989.1	592.2	5.99	-	19	81
Morro Bay (CA)	-	-	-	-	-	-	-	-	25,790.8	510.4	5.46	-	-	100
Moss Landing (CA)	-	-	-	-	-	-	-	-	54,717.1	506.3	5.41	-	-	100
Oleum (CA)	-	-	-	-	213.7	619.7	39.80	.31	1,783.4	579.5	7.33	-	38	62
Pittsburg (CA)	-	-	-	-	1,797.5	586.7	36.50	.40	60,273.6	508.1	5.29	-	15	85
Potrero (CA)	-	-	-	-	98.4	654.1	37.88	.10	8,611.2	504.1	5.25	-	6	94
Oakland (CA)	-	-	-	-	52.7	691.6	40.29	.18	-	-	-	-	100	-
Pacific Power and Lt	15,589.0	89.6	15.17	.61	-	-	-	-	-	-	-	100	-	-
Centralia (WA)	4,400.0	138.9	22.50	.76	-	-	-	-	-	-	-	100	-	-
Johnston (WY)	3,352.0	68.0	10.34	.47	-	-	-	-	-	-	-	100	-	-
Wyodak (WY)	1,812.0	43.2	6.89	.50	-	-	-	-	-	-	-	100	-	-
Jim Bridger (WY)	6,025.0	80.2	14.99	.60	-	-	-	-	-	-	-	100	-	-
Painesville Elec Lt Dept	69.8	160.1	39.43	2.26	-	-	-	-	-	-	-	100	-	-
Painesville (OH)	69.8	160.1	39.43	2.26	-	-	-	-	-	-	-	100	-	-
Pasadena Water and Power Dept	-	-	-	-	15.8	627.0	38.81	.25	3,765.6	501.3	5.24	-	2	98
Broadway (CA)	-	-	-	-	15.8	627.0	38.81	.25	3,717.1	501.7	5.25	-	2	98
Glenarm (CA)	-	-	-	-	-	-	-	-	48.5	473.9	4.96	-	-	100
Pella Mun Power and Lt	71.2	164.5	32.60	3.12	-	-	-	-	-	-	-	100	-	-
Pella (IA)	71.2	164.5	32.60	3.12	-	-	-	-	-	-	-	100	-	-
Pennsylvania Elec (GPS)	13,902.8	140.6	33.39	1.89	398.1	[2] 721.3	42.00	.18	768.0	387.7	3.88	99	1	*
Conemaugh (PA)	2,668.1	166.4	40.09	2.18	87.3	706.1	41.14	.18	-	-	-	99	1	-
Front St (PA)	282.0	159.2	39.01	1.93	21.4	733.8	42.78	.28	-	-	-	98	2	-
Homer City (PA)	5,233.0	142.8	32.69	1.95	78.0	[2] 721.4	42.06	.18	-	-	-	100	*	-
Seward (PA)	459.0	124.7	29.80	1.82	61.0	732.6	42.45	.05	-	-	-	97	3	-
Shawville (PA)	1,426.0	143.8	35.09	2.01	64.0	731.0	42.60	.24	-	-	-	99	1	-
Warren (PA)	201.0	155.0	37.40	1.85	7.0	731.6	42.65	.29	768.0	387.7	3.88	86	1	14
Wayne (GT) (PA)	-	-	-	-	7.0	725.8	42.31	.30	-	-	-	-	100	-
Williamsburg (PA)	91.0	132.3	32.46	1.88	-	-	-	-	-	-	-	100	-	-
Keystone (PA)	3,542.6	117.3	28.53	1.58	72.5	716.3	41.76	.16	-	-	-	100	*	-

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Pennsylvania Power and Lt	[1] 9,438.0	177.9	43.33	1.80	5,903.0	511.1	31.62	0.85	-	-	-	86	14	-
Allentown (GT) (PA)	-	-	-	-	3.0	731.8	42.26	.31	-	-	-	-	100	-
Brunner Island (PA)	3,654.0	187.8	46.23	2.05	49.0	717.2	41.53	.17	-	-	-	100	*	-
Fishbach (GT) (PA)	-	-	-	-	1.0	734.4	42.35	.16	-	-	-	-	100	-
Harrisburg (GT) (PA)	-	-	-	-	5.0	724.8	41.85	.14	-	-	-	-	100	-
Harwood (GT) (PA)	-	-	-	-	2.0	776.2	44.81	.14	-	-	-	-	100	-
Holtwood (PA)	[1] 263.0	116.3	23.58	1.84	1.0	678.5	39.53	.16	-	-	-	100	*	-
Jenkins (GT) (PA)	-	-	-	-	1.0	746.5	43.09	.15	-	-	-	-	100	-
Martins Creek (PA)	672.0	195.0	48.33	2.06	5,743.0	505.5	31.33	.87	-	-	-	32	68	-
Montour (PA)	3,721.0	175.4	43.61	1.60	81.0	731.6	42.29	.12	-	-	-	99	1	-
Suburban (GT) (PA)	-	-	-	-	1.0	811.3	45.95	.03	-	-	-	-	100	-
Sunbury (PA)	[1] 1,128.0	153.8	34.60	1.50	12.0	703.8	40.65	.14	-	-	-	100	*	-
W Shore (GT) (PA)	-	-	-	-	2.0	736.4	42.71	.14	-	-	-	-	100	-
Williamport (GT) (PA)	-	-	-	-	2.0	749.5	43.23	.15	-	-	-	-	100	-
Pennsylvania Power	6,105.8	188.5	45.33	3.13	129.7	692.1	40.27	.42	-	-	-	99	1	-
New Castle (PA)	735.4	150.7	36.36	1.51	8.7	728.1	41.94	.36	-	-	-	100	*	-
Bruce Mansfield (PA)	5,370.4	193.7	46.56	3.35	121.0	689.5	40.15	.42	-	-	-	99	1	-
Peru Utils	47.7	153.3	34.09	2.95	-	-	-	-	-	-	-	100	-	-
Peru (IN)	47.7	153.3	34.09	2.95	-	-	-	-	-	-	-	100	-	-
Philadelphia Elec	1,217.0	191.9	49.67	1.73	3,551.0	534.0	33.07	.40	-	-	-	59	41	-
Barbadoes (PA)	-	-	-	-	4.0	704.9	40.65	.09	-	-	-	-	100	-
Chester (PA)	-	-	-	-	10.0	719.1	41.85	.06	-	-	-	-	100	-
Cromby (PA)	290.0	184.9	49.59	1.82	8.0	710.3	41.40	.07	-	-	-	99	1	-
Delaware (PA)	-	-	-	-	738.0	519.7	32.34	.44	-	-	-	-	100	-
Eddystone (PA)	927.0	194.1	49.69	1.70	2,083.0	513.0	32.00	.44	-	-	-	65	35	-
Falls (GT) (PA)	-	-	-	-	6.0	700.8	40.91	.06	-	-	-	-	100	-
Moser (GT) (PA)	-	-	-	-	17.0	713.1	41.32	.10	-	-	-	-	100	-
Richmond (PA)	-	-	-	-	348.0	613.9	37.15	.24	-	-	-	-	100	-
Schuylkill (PA)	-	-	-	-	11.0	693.8	40.57	.08	-	-	-	-	100	-
Southwark (PA)	-	-	-	-	208.0	537.6	33.11	.43	-	-	-	-	100	-
Croydon (GT) (PA)	-	-	-	-	118.0	693.7	40.63	.09	-	-	-	-	100	-
Piqua Mun Power Sys	124.8	138.6	32.74	2.21	1.2	682.0	40.10	.30	-	-	-	100	*	-
Piqua (OH)	124.8	138.6	32.74	2.21	1.2	682.0	40.10	.30	-	-	-	100	*	-
Plains Elec Gen and Trans Coop	-	-	-	-	-	-	-	-	58.0	358.8	3.19	-	-	100
Algodones (NM)	-	-	-	-	-	-	-	-	58.0	358.8	3.19	-	-	100
Portland General Elec	1,134.5	171.5	28.50	.37	15.7	722.2	41.56	.00	35.7	537.5	5.32	99	*	*
Bethel (GT) (OR)	-	-	-	-	-	-	-	-	5.4	602.2	6.29	-	-	100
Boardman (OR)	1,134.5	171.5	28.50	.37	15.7	722.2	41.56	.00	-	-	-	100	*	-
Beaver (GT) (OR)	-	-	-	-	-	-	-	-	30.3	525.1	5.15	-	-	100
Potomac Edison Co (APS)	232.5	172.0	43.78	.98	2.7	710.6	42.08	.30	-	-	-	100	*	-
Smith (MD)	232.5	172.0	43.78	.98	2.7	710.6	42.08	.30	-	-	-	100	*	-
Potomac Elec Power	5,885.0	193.5	48.16	1.60	2,458.2	519.6	31.75	1.16	-	-	-	91	9	-
Benning (DC)	-	-	-	-	219.9	577.9	34.81	.93	-	-	-	-	100	-
Buzzard Point (DC)	-	-	-	-	28.3	708.5	41.20	.20	-	-	-	-	100	-
Chalk (MD)	670.0	189.5	46.79	1.80	1,897.0	503.0	30.86	1.31	-	-	-	59	41	-
Dickerson (MD)	1,117.0	194.1	48.22	1.62	34.0	705.5	40.85	.20	-	-	-	99	1	-
Morgantown (MD)	3,143.0	190.1	46.74	1.81	238.0	523.8	32.04	.52	-	-	-	98	2	-
Potomac River (VA)	955.0	206.1	53.73	.77	41.0	697.2	40.42	.20	-	-	-	99	1	-
Power Authority State of NY	-	-	-	-	2,842.5	535.2	33.03	.26	18,492.5	458.3	4.72	-	48	52
Poletti (NY)	-	-	-	-	2,842.5	535.2	33.03	.26	18,492.5	458.3	4.72	-	48	52
Pub Serv Co of Colorado	6,778.6	119.6	22.56	.38	34.6	718.2	41.34	.26	2,829.1	381.6	3.81	98	*	2
Alamosa (GTS) (CO)	-	-	-	-	-	-	-	-	208.8	300.1	3.09	-	-	100
Araphoe (CO)	554.6	143.5	31.00	.43	-	-	-	-	75.3	405.6	3.98	99	-	1
Cameo (CO)	205.5	125.9	29.16	.54	-	-	-	-	131.1	353.5	3.54	97	-	3
Cherokee (CO)	1,709.9	123.1	26.65	.45	-	-	-	-	488.4	406.4	3.98	99	-	1
Comanche (CO)	2,160.6	114.2	19.28	.33	11.8	688.9	39.54	.23	10.2	396.9	3.98	100	*	*
Fruita (GT) (CO)	-	-	-	-	-	-	-	-	187.1	276.5	2.97	-	-	100
Valmont (CO)	354.9	152.8	32.43	.39	-	-	-	-	276.4	416.7	4.16	96	-	4
Zuni (CO)	-	-	-	-	-	-	-	-	1,292.4	405.3	3.98	-	-	100
Pawnee (CO)	1,792.9	103.1	17.29	.35	22.8	733.4	42.27	.28	-	-	-	100	*	-
Ft Lupton (GT) (CO)	-	-	-	-	-	-	-	-	159.6	314.4	3.28	-	-	100

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Pub Serv Co of Indiana	**11,393.6**	**143.2**	**30.60**	**2.43**	**157.7**	**695.9**	**40.04**	**0.30**	-	-	-	**100**	*	-
Cayuga (IN)	2,667.9	133.7	27.94	2.34	20.1	695.7	40.03	.30	-	-	-	100	*	-
Edwardsport (IN)	54.8	114.4	23.96	2.22	3.3	710.7	40.90	.30	-	-	-	98	2	-
Miami-Wabash (IN)	-	-	-	-	.5	726.2	41.79	.30	-	-	-	-	100	-
Noblesville (IN)	19.6	137.9	28.26	2.32	3.9	686.2	39.49	.30	-	-	-	95	5	-
Gallagher (IN)	787.5	120.4	26.35	3.15	27.4	698.1	40.17	.30	-	-	-	99	1	-
Wabash River (IN)	1,339.1	143.2	31.28	2.10	21.8	695.5	40.02	.30	-	-	-	100	*	-
Gibson Station (IN)	6,524.7	150.1	32.12	2.45	80.7	694.9	39.99	.30	-	-	-	100	*	-
Pub Serv Co of New Hampshire	**862.0**	**188.4**	**50.94**	**2.40**	**2,853.2**	**414.2**	**26.07**	**1.88**	-	-	-	**56**	**44**	-
Merrimack (NH)	862.0	188.4	50.94	2.40	5.6	753.8	43.11	.17	-	-	-	100	*	-
Schiller (NH)	-	-	-	-	442.1	420.6	26.41	1.89	-	-	-	-	100	-
Newington Station (NH)	-	-	-	-	2,405.5	412.3	25.97	1.88	-	-	-	-	100	-
Pub Serv Co of New Mexico	**5,071.5**	**97.2**	**18.67**	**.79**	**226.0**	**635.5**	**37.27**	**.11**	**3,502.6**	**351.4**	**3.71**	**95**	**1**	**4**
Person (NM)	-	-	-	-	-	-	-	-	848.4	350.2	3.69	-	-	100
Reeves (NM)	-	-	-	-	-	-	-	-	2,654.2	351.8	3.71	-	-	100
San Juan (NM)	5,071.5	97.2	18.67	.79	226.0	635.5	37.27	.11	-	-	-	99	1	-
Pub Serv Co of Oklahoma (CSW)	**2,593.0**	**181.1**	**29.84**	**.42**	-	-	-	-	**95,747.0**	**202.9**	**2.15**	**30**	-	**70**
Northeastern (OK)	2,593.0	181.1	29.84	.42	-	-	-	-	26,105.0	201.4	2.15	61	-	39
Southwestern (OK)	-	-	-	-	-	-	-	-	12,453.0	198.5	2.10	-	-	100
Tulsa (OK)	-	-	-	-	-	-	-	-	13,573.0	202.4	2.17	-	-	100
Weleetka (OK)	-	-	-	-	-	-	-	-	163.0	183.6	1.93	-	-	100
Riverside (OK)	-	-	-	-	-	-	-	-	32,795.0	205.4	2.15	-	-	100
Comanche (CS) (OK)	-	-	-	-	-	-	-	-	10,658.0	204.7	2.15	-	-	100
Pub Serv Elec and Gas-NJ	**2,099.3**	**222.3**	**59.13**	**1.05**	**5,779.8**	**549.8**	**33.67**	**.29**	**42,525.9**	**398.3**	**4.12**	**41**	**26**	**33**
Bayonne (GT) (NJ)	-	-	-	-	5.0	789.9	44.11	.07	-	-	-	-	100	-
Bergen (NJ)	-	-	-	-	796.3	550.0	33.63	.27	20,522.3	403.3	4.16	-	19	81
Burlington (NJ)	-	-	-	-	970.0	505.4	31.56	.44	-	-	-	-	100	-
Edison (GT) (NJ)	-	-	-	-	25.0	781.3	44.06	.02	1,330.3	392.3	4.04	-	9	91
Essex (NJ)	-	-	-	-	51.0	754.0	42.73	.05	1,639.0	390.8	4.03	-	15	85
Hudson (NJ)	958.1	209.8	55.31	1.05	250.0	541.5	32.96	.26	7,275.0	395.3	4.14	73	4	23
Kearny (NJ)	-	-	-	-	1,127.0	562.9	34.23	.25	588.0	392.5	4.04	-	92	8
Linden (NJ)	-	-	-	-	2,057.0	557.7	34.10	.27	220.3	390.6	4.02	-	98	2
Mercer (NJ)	1,141.2	232.6	62.35	1.06	-	-	-	-	3,000.0	395.9	4.08	91	-	9
Salem (GT) (NJ)	-	-	-	-	18.0	687.6	39.71	.12	-	-	-	-	100	-
Sewaren (NJ)	-	-	-	-	480.5	542.7	33.35	.26	7,051.0	392.4	4.04	-	27	73
Puget Sound Power and Lt	-	-	-	-	-	-	-	-	13.1	[8] 2,154.9	22.77	-	-	100
Frederickson (WA)	-	-	-	-	-	-	-	-	5.4	[8] 3,210.2	34.08	-	-	100
Whitehorn (WA)	-	-	-	-	-	-	-	-	7.7	[8] 1,405.5	14.80	-	-	100
Richmond Power and Lt	**207.8**	**179.3**	**40.78**	**2.44**	-	-	-	-	-	-	-	**100**	-	-
Whitewater (IN)	207.8	179.3	40.78	2.44	-	-	-	-	-	-	-	100	-	-
Rochester Dept Pub Utils	**208.4**	**200.3**	**49.40**	**1.99**	-	-	-	-	**69.2**	**425.3**	**4.27**	**99**	-	**1**
Silver Lake (MN)	208.4	200.3	49.40	1.99	-	-	-	-	69.2	425.3	4.27	99	-	1
Rochester Gas and Elec Corp	**790.0**	**182.7**	**46.66**	**2.34**	**253.9**	**424.8**	**26.91**	**1.57**	-	-	-	**93**	**7**	-
Rochester 3 (NY)	183.2	181.9	46.23	2.34	253.9	424.8	26.91	1.57	-	-	-	74	26	-
Rochester 7 (NY)	606.8	182.9	46.79	2.34	-	-	-	-	-	-	-	100	-	-
Ruston Util Sys	-	-	-	-	-	-	-	-	**1,843.0**	**348.5**	**3.68**	-	-	**100**
Steam Plant (LA)	-	-	-	-	-	-	-	-	1,843.0	348.5	3.68	-	-	100
S Mississippi Elec Pwr Assn	**853.9**	**228.8**	**56.12**	**.98**	**4.4**	**696.2**	**40.42**	**.27**	**1,876.5**	**407.1**	**4.10**	**92**	*	**8**
Moselle (MS)	-	-	-	-	-	-	-	-	1,876.5	407.1	4.10	-	-	100
R D Morrow (MS)	853.9	228.8	56.12	.98	4.4	696.2	40.42	.27	-	-	-	100	*	-
Salt River Project	**9,012.9**	**103.1**	**22.51**	**.53**	**74.6**	**730.8**	**43.02**	**.40**	**11,242.9**	**342.6**	**3.63**	**94**	*	**6**
Agua Fria (AZ)	-	-	-	-	-	-	-	-	8,187.2	331.4	3.51	-	-	100
Kyrene (AZ)	-	-	-	-	-	-	-	-	258.2	342.8	3.58	-	-	100
Navajo (AZ)	7,465.0	84.0	18.47	.54	48.2	735.8	43.43	.48	-	-	-	100	*	-
Coronado (AZ)	1,547.9	198.9	41.95	.47	26.4	721.5	42.29	.26	-	-	-	100	*	-
Santan (GT) (AZ)	-	-	-	-	-	-	-	-	2,797.5	375.2	3.98	-	-	100
San Antonio City Pub Secv	**3,050.0**	**216.2**	**36.51**	**.34**	-	-	-	-	**34,885.6**	**407.6**	**4.17**	**59**	-	**41**
Leon Creek (TX)	-	-	-	-	-	-	-	-	182.4	404.7	4.14	-	-	100
Mission Rd (TX)	-	-	-	-	-	-	-	-	104.2	406.2	4.14	-	-	100
Sommers (TX)	-	-	-	-	-	-	-	-	18,056.0	408.5	4.17	-	-	100

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
San Antonio City Pub Secv														
Braunig (TX)	-	-	-	-	-	-	-	-	14,790.0	409.4	4.16	-	-	100
Tuttle (TX)	-	-	-	-	-	-	-	-	1,753.0	404.7	4.13	-	-	100
J T Deely (TX)	3,050.0	216.2	36.51	0.34	-	-	-	-	-	-	-	100	-	-
San Diego Gas and Elec	-	-	-	-	6,333.0	[1] 725.7	45.54	0.46	33,738.0	487.0	5.08	-	53	47
Encina (CA)	-	-	-	-	4,121.0	[2] 734.6	46.20	.48	11,440.0	484.1	5.06	-	68	32
Kearny (GT) (CA)	-	-	-	-	1.0	767.7	44.48	.45	153.0	493.3	5.14	-	4	96
Miramar (GT) (CA)	-	-	-	-	-	-	-	-	77.0	486.4	5.07	-	-	100
Navel Station (CA)	-	-	-	-	-	-	-	-	2,485.0	485.1	5.06	-	-	100
N Island (GT) (CA)	-	-	-	-	-	-	-	-	2,145.0	484.4	5.05	-	-	100
Silver Gate (CA)	-	-	-	-	-	-	-	-	1,532.0	467.5	4.88	-	-	100
South Bay (CA)	-	-	-	-	2,210.0	[2] 709.0	44.29	.44	15,736.0	491.9	5.13	-	46	54
Station B (CA)	-	-	-	-	1.0	749.0	44.16	.33	170.0	467.9	4.89	-	3	97
San Miguel Elec Coop	2,426.9	117.2	12.95	1.90	-	-	-	-	-	-	-	100	-	-
San Miguel (TX)	2,426.9	117.2	12.95	1.90	-	-	-	-	-	-	-	100	-	-
Savannah Elec and Power	762.9	191.5	48.85	.93	58.5	485.1	29.82	1.72	1,380.1	411.7	4.23	92	2	7
Boulevard (GT) (GA)	-	-	-	-	-	-	-	-	25.8	413.0	4.24	-	-	100
Port Wentworth (GA)	426.6	193.0	48.94	.93	39.6	374.4	23.48	2.55	1,332.7	411.7	4.23	87	2	11
Riverside (GA)	-	-	-	-	-	-	-	-	21.6	409.4	4.21	-	-	100
McIntosh (GA)	336.1	189.7	48.30	.94	18.9	738.2	42.49	.00	-	-	-	99	1	-
Seattle Dept of Ltng	-	-	-	-	.2	778.0	46.07	.20	-	-	-	-	100	-
Lake Union (WA)	-	-	-	-	.2	778.0	46.07	.20	-	-	-	-	100	-
Sewer and Water Bd N Orleans	-	-	-	-	.5	679.4	39.69	.14	1,335.8	472.7	4.96	-	*	100
Pwr House Two (LA)	-	-	-	-	.5	679.4	39.69	.14	1,335.8	472.7	4.96	-	*	100
Sierra Pacific Power	715.6	192.0	43.39	.37	101.5	463.0	28.85	.77	5,437.4	434.7	4.66	71	3	26
Fort Churchill (NV)	-	-	-	-	85.1	416.9	26.41	.92	4,289.1	435.5	4.67	-	10	90
Tracy (NV)	-	-	-	-	-	-	-	-	1,148.3	431.4	4.62	-	-	100
North Valmy (NV)	715.6	192.0	43.39	.37	16.5	727.8	41.48	.00	-	-	-	99	1	-
Sikeston Bd of Mun Utils	262.3	193.0	43.75	2.66	3.2	710.0	42.05	.26	-	-	-	100	*	-
Sikeston (MO)	262.3	193.0	43.75	2.66	3.2	710.0	42.05	.26	-	-	-	100	*	-
South Carolina Elec and Gas	3,860.8	198.7	50.65	1.48	67.8	676.1	39.40	.42	366.0	380.8	3.91	99	*	*
Burton (GT) (SC)	-	-	-	-	-	-	-	-	.3	369.0	3.87	-	-	100
Canadys (SC)	884.8	200.1	50.86	1.59	7.1	713.9	40.96	.20	100.0	374.5	3.85	99	*	*
Colt (GT) (SC)	-	-	-	-	.9	718.6	41.76	.20	1.1	379.7	3.90	-	83	17
Hagood (SC)	-	-	-	-	7.8	414.9	26.05	2.10	124.9	385.9	3.96	-	28	72
Mcmeekin (SC)	741.5	188.5	47.64	1.73	3.2	717.9	41.54	.20	16.3	376.3	3.86	100	*	*
Parr (SC)	-	-	-	-	1.8	734.1	42.55	.20	27.3	387.8	3.99	-	27	73
Urquhart (SC)	691.0	200.7	51.75	1.39	1.8	686.4	40.03	.20	83.1	378.5	3.90	99	*	*
Wateree (SC)	1,543.5	201.9	51.47	1.34	41.4	710.4	40.97	.20	-	-	-	99	1	-
Williams (SC)	-	-	-	-	3.8	737.5	42.51	.20	13.0	386.3	3.97	-	62	38
South Carolina Pub Serv Auth	3,609.2	186.4	46.03	1.29	48.4	693.1	40.76	.30	6.4	396.1	4.06	100	*	*
Grainger (SC)	318.6	178.0	42.90	1.77	1.8	691.9	40.68	.30	-	-	-	100	*	-
Hilton Head (GT) (SC)	-	-	-	-	7.0	682.5	40.13	.30	-	-	-	-	100	-
Jefferies (SC)	499.6	186.1	45.08	1.84	4.7	682.7	40.14	.30	-	-	-	100	*	-
Myrtle Beach (GT) (SC)	-	-	-	-	1.9	723.1	42.52	.30	6.4	396.1	4.06	-	63	37
Winyah (SC)	2,790.8	187.4	45.27	1.13	33.0	695.3	40.88	.30	-	-	-	100	*	-
South Texas Elec Coop Inc	-	-	-	-	-	-	-	-	984.8	410.9	4.14	-	-	100
Sam Rayburn (TX)	-	-	-	-	-	-	-	-	984.8	410.9	4.14	-	-	100
Southern California Edison	4,788.0	89.2	19.44	.57	3,003.0	703.0	42.70	.25	256,784.0	498.3	5.25	27	5	69
Alamitos (CA)	-	-	-	-	2,296.0	702.0	42.82	.25	65,196.0	509.8	5.34	-	17	83
Cool Water (CA)	-	-	-	-	-	-	-	-	11,894.0	516.5	5.54	-	-	100
El Segundo (CA)	-	-	-	-	81.0	678.3	41.38	.25	31,825.0	498.9	5.26	-	1	99
Etiwanda (CA)	-	-	-	-	-	-	-	-	24,356.0	502.7	5.25	-	-	100
Highgrove (CA)	-	-	-	-	-	-	-	-	472.0	502.9	5.23	-	-	100
Huntington Beach (CA)	-	-	-	-	306.0	725.6	44.26	.25	31,656.0	506.2	5.30	-	5	95
Long Beach (CA)	-	-	-	-	76.0	693.0	35.34	.10	10,252.0	498.9	5.23	-	3	97
Mandalay (CA)	-	-	-	-	235.0	693.9	42.33	.25	9,783.0	416.2	4.36	-	12	88
Ormond Beach (CA)	-	-	-	-	9.0	714.5	43.59	.02	29,981.0	504.4	5.41	-	*	100
Redondo (CA)	-	-	-	-	-	-	-	-	34,058.0	493.7	5.20	-	-	100
San Bernardino (CA)	-	-	-	-	-	-	-	-	3,441.0	486.7	5.08	-	-	100
Mohave (NV)	4,788.0	89.2	19.44	.57	-	-	-	-	3,857.0	363.5	3.87	96	-	4
Ellwood (GT) (CA)	-	-	-	-	-	-	-	-	13.0	517.4	5.59	-	-	100

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Southern Illinois Power Coop	498.9	107.8	21.60	3.07	-	-	-	-	-	-	-	100	-	-
Marion (IL)	498.9	107.8	21.60	3.07	-	-	-	-	-	-	-	100	-	-
Southern Indiana Gas and Elec	1,847.8	135.3	29.85	3.39	-	-	-	-	91.3	322.6	3.26	100	-	*
Broadway (GT) (IN)	-	-	-	-	-	-	-	-	91.3	322.6	3.26	-	-	100
Culley (IN)	973.7	126.3	27.75	3.26	-	-	-	-	-	-	-	100	-	-
A B Brown (IN)	452.6	174.7	39.48	3.93	-	-	-	-	-	-	-	100	-	-
Warrick (IN)	421.5	112.4	24.35	3.13	-	-	-	-	-	-	-	100	-	-
Southwestern Elec Pwr (CSW)	6,054.0	156.7	26.17	.34	53.0	681.2	40.05	0.60	56,853.0	227.9	2.34	63	*	37
Arsenal Hill (LA)	-	-	-	-	-	-	-	-	3,005.0	274.1	2.90	-	-	100
Lieberman (LA)	-	-	-	-	-	-	-	-	8,234.0	260.3	2.99	-	-	100
Knox Lee (TX)	-	-	-	-	-	-	-	-	17,998.0	265.9	2.60	-	-	100
Lone Star (TX)	-	-	-	-	-	-	-	-	1.0	227.1	1.68	-	-	100
Wilkes (TX)	-	-	-	-	-	-	-	-	27,715.0	179.6	1.78	-	-	100
Flint Creek (AR)	1,638.0	135.0	22.56	.34	14.0	704.7	41.44	.60	-	-	-	100	*	-
Welsh Station (TX)	4,416.0	164.8	27.52	.34	39.0	672.8	39.56	.60	-	-	-	100	*	-
Southwestern Pub Serv	3,831.0	193.3	34.55	.39	17.0	[8] 477.6	27.69	.35	75,186.0	303.1	3.01	48	*	52
Carlsbad (NM)	-	-	-	-	-	-	-	-	1,668.0	309.8	3.28	-	-	100
Cunningham (NM)	-	-	-	-	-	-	-	-	17,220.0	304.1	3.00	-	-	100
Denver City (TX)	-	-	-	-	-	-	-	-	3,509.0	290.3	2.72	-	-	100
Jones (TX)	-	-	-	-	16.0	440.3	25.53	.35	16,956.0	331.6	3.40	-	1	99
Moore (TX)	-	-	-	-	-	-	-	-	4,760.0	269.6	2.50	-	-	100
Nichols (TX)	-	-	-	-	-	-	-	-	16,634.0	268.7	2.65	-	-	100
Plant X (TX)	-	-	-	-	1.0	[8] 1,072.2	62.26	.39	13,735.0	318.9	3.22	-	*	100
Harrington (TX)	3,367.0	179.8	32.19	.39	-	-	-	-	446.0	328.5	3.14	99	-	1
Tolk (TX)	464.0	293.9	51.62	.37	-	-	-	-	258.0	296.0	3.03	97	-	3
Springfield Wtr, Lt & Pwr Dept	[1] 729.7	169.6	35.51	3.19	-	-	-	-	-	-	-	100	-	-
Dallman (IL)	[1] 656.7	169.2	35.39	3.19	-	-	-	-	-	-	-	100	-	-
Lakeside (IL)	72.9	173.0	36.59	3.21	-	-	-	-	-	-	-	100	-	-
Springfield, City Utils of	745.3	176.5	42.73	3.94	.4	543.8	20.92	.00	184.8	395.6	4.03	99	*	1
James River (MO)	387.6	174.8	41.92	4.19	.4	543.8	20.92	.00	167.1	392.5	4.00	98	*	2
Southwest (MO)	357.7	178.3	43.60	3.67	-	-	-	-	17.8	425.3	4.29	100	-	*
St Joseph Lt and Power	122.4	164.9	41.65	4.63	10.3	417.4	26.25	1.37	310.9	333.6	3.48	89	2	9
Edmond (MO)	-	-	-	-	2.9	418.0	26.25	1.40	34.0	345.8	3.60	-	34	66
Lakeroad (MO)	122.4	164.9	41.65	4.63	7.4	417.2	26.25	1.36	276.9	332.1	3.46	90	1	8
Sunflower Elec Coop Inc	-	-	-	-	-	-	-	-	7,661.2	238.2	1.88	-	-	100
Garden City (KS)	-	-	-	-	-	-	-	-	7,661.2	238.2	1.88	-	-	100
Tallahassee, City of	-	-	-	-	361.3	429.0	27.40	2.37	12,028.5	292.8	3.08	-	15	85
Hopkins (FL)	-	-	-	-	244.3	431.5	27.57	2.43	9,374.9	292.5	3.07	-	14	86
Purdom (FL)	-	-	-	-	117.0	423.7	27.05	2.25	2,653.5	293.9	3.09	-	21	79
Tampa Elec	3,960.3	191.3	45.46	2.31	2,571.3	453.8	28.77	.94	-	-	-	65	15	-
Big Bend (FL)	2,892.3	169.9	39.77	2.71	71.5	688.2	39.83	.21	-	-	-	99	1	-
Gannon (FL)	1,068.0	246.1	60.86	1.22	2,044.8	447.1	28.42	.97	-	-	-	67	33	-
Hookers Point (FL)	-	-	-	-	455.0	450.3	28.59	.95	-	-	-	-	100	-
Taunton Mun Ltng Plant	-	-	-	-	319.7	457.5	28.80	1.81	-	-	-	-	100	-
Cleary (MA)	-	-	-	-	319.7	457.5	28.80	1.81	-	-	-	-	100	-
Tennessee Valley Authority	31,971.6	172.8	40.37	2.35	334.2	809.4	48.94	.49	-	-	-	100	*	-
Colbert (AL)	2,999.0	189.6	44.04	2.29	9.2	347.2	20.46	.47	-	-	-	100	*	-
Widows Creek (AL)	2,385.4	175.6	42.01	2.30	29.6	834.3	47.99	.50	-	-	-	100	*	-
Paradise (KY)	4,829.9	117.2	24.74	4.29	59.2	851.0	49.05	.50	-	-	-	100	*	-
Shawnee (KY)	3,041.3	219.9	55.10	1.18	27.7	844.4	48.44	.50	-	-	-	100	*	-
Allen (TN)	1,327.3	170.7	40.62	2.19	6.7	441.4	25.97	.50	-	-	-	100	*	-
Bull Run (TN)	2,192.8	166.9	38.15	.80	43.4	810.5	47.00	.50	-	-	-	99	1	-
Cumberland (TN)	5,134.3	189.3	44.27	2.87	85.9	836.3	48.74	.50	-	-	-	100	*	-
Gallatin (TN)	2,568.2	174.8	42.97	2.90	13.6	834.9	48.79	.50	-	-	-	100	*	-
Sevier (TN)	2,065.4	170.1	41.29	2.07	3.8	819.0	47.56	.50	-	-	-	100	*	-
Johnsonville (TN)	1,734.7	155.6	35.37	2.02	19.5	827.7	48.33	.50	-	-	-	100	*	-
Kingston (TN)	3,638.1	170.9	40.55	.99	35.2	796.7	46.16	.43	-	-	-	100	*	-
Watts Bar (TN)	55.2	163.9	38.68	2.21	.6	842.0	49.08	.50	-	-	-	100	*	-
Texas Elec Serv(Texas Utils)	-	-	-	-	303.0	637.8	38.03	.55	119,389.0	363.7	3.76	-	1	99
Eagle Mountain (TX)	-	-	-	-	-	-	-	-	10,617.0	368.0	3.76	-	-	100

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Texas Elec Serv(Texas Utils)														
Graham (TX)	-	-	-	-	-	-	-	-	23,054.0	383.5	3.85	-	-	100
Handley (TX)	-	-	-	-	82.0	685.3	40.16	0.26	28,801.0	364.0	3.74	-	2	98
Morgan Creek (TX)	-	-	-	-	58.0	581.6	34.90	.64	28,525.0	362.7	3.74	-	1	99
North Main (TX)	-	-	-	-	-	-	-	-	675.0	363.3	3.72	-	-	100
Permian Basin (TX)	-	-	-	-	163.0	634.5	38.07	.67	27,717.0	363.0	3.74	-	3	97
Texas Pwr and Lt (Texas Utils)	457.0	97.8	13.00	1.23	207.6	599.1	34.67	.27	120,381.8	323.6	3.35	5	1	94
Collin (TX)	-	-	-	-	-	-	-	-	1,698.0	370.2	3.76	-	-	100
Lake Creek (TX)	-	-	-	-	13.0	256.3	15.54	.66	5,576.0	375.2	3.68	-	1	99
River Crest (TX)	-	-	-	-	17.9	264.1	16.06	.65	898.0	398.9	4.30	-	10	90
Stryker (TX)	-	-	-	-	1.6	694.6	39.95	.20	27,088.0	135.2	1.40	-	*	100
Tradinghouse (TX)	-	-	-	-	-	-	-	-	42,262.0	379.5	3.95	-	-	100
Trinidad (TX)	-	-	-	-	.6	692.8	39.86	.20	3,367.0	368.0	3.81	-	*	100
Valley (TX)	-	-	-	-	99.1	660.6	37.84	.20	21,639.0	376.5	3.90	-	2	98
Sandow No 4 (TX)	457.0	97.8	13.00	1.23	-	-	-	-	-	-	-	100	-	-
Decordova (TX)	-	-	-	-	75.2	662.2	38.07	.20	17,853.8	379.5	3.90	-	2	98
Texas Utils Servs Inc	27,173.0	84.0	10.95	.72	-	-	-	-	-	-	-	100	-	-
Big Brown (TX)	5,963.0	57.9	7.92	.56	-	-	-	-	-	-	-	100	-	-
Martin Lake (TX)	11,413.0	100.5	13.57	.95	-	-	-	-	-	-	-	100	-	-
Monticello (TX)	9,797.0	80.4	9.73	.57	-	-	-	-	-	-	-	100	-	-
Toledo Edison Co	1,878.6	212.5	55.75	1.04	7.3	503.0	21.46	.03	106.4	433.4	4.38	100	*	*
Acme (OH)	232.1	199.8	52.75	.67	5.5	493.2	18.64	.00	70.6	474.7	4.83	99	*	1
Bay Shore (OH)	1,446.5	214.5	56.24	1.10	1.2	556.0	32.05	.05	-	-	-	100	*	-
Defiance-Richland (OH)	-	-	-	-	.6	452.8	26.11	.30	35.8	350.8	3.51	-	9	91
Traverse, City of	45.7	203.8	52.95	.88	-	-	-	-	21.3	533.8	5.45	98	-	2
Bayside (MI)	45.7	203.8	52.95	.88	-	-	-	-	21.3	533.8	5.45	98	-	2
Tucson Gas and Elec Co	-	-	-	-	-	-	-	-	6,850.0	373.5	3.90	-	-	100
Demoss Petrie (AZ)	-	-	-	-	-	-	-	-	67.8	415.5	4.33	-	-	100
Irvington (AZ)	-	-	-	-	-	-	-	-	6,751.1	372.9	3.89	-	-	100
N Loop (GT) (AZ)	-	-	-	-	-	-	-	-	31.1	408.6	4.26	-	-	100
Union Elec	11,262.0	136.5	30.09	1.94	551.0	542.0	32.75	1.15	646.0	443.2	4.59	98	1	*
Venice No.2 (IL)	-	-	-	-	11.0	747.5	43.19	.30	486.0	441.3	4.57	-	11	89
Ashley (MO)	-	-	-	-	322.0	436.2	27.27	1.75	-	-	-	-	100	-
Howard Bend (GT) (MO)	-	-	-	-	2.0	745.1	42.87	.30	-	-	-	-	100	-
Labadie (MO)	5,405.0	131.6	29.62	2.34	167.0	696.3	40.06	.30	-	-	-	99	1	-
Meramec (MO)	930.0	180.7	42.83	1.20	2.0	589.4	28.31	.15	180.0	448.8	4.66	99	*	1
Sioux (MO)	2,128.0	136.6	28.84	2.49	9.0	706.5	40.65	.30	-	-	-	100	*	-
Rush Island (MO)	2,799.0	130.2	27.71	1.01	13.0	707.8	40.72	.40	-	-	-	100	*	-
Mexico (GT) (MO)	-	-	-	-	4.0	731.2	42.07	.30	-	-	-	-	100	-
Moberly (GT) (MO)	-	-	-	-	12.0	737.5	42.43	.30	-	-	-	-	100	-
Moreau (GT) (MO)	-	-	-	-	9.0	737.4	42.43	.30	-	-	-	-	100	-
United Gas Imp Co	242.0	124.2	22.49	.80	-	-	-	-	-	-	-	100	-	-
Hunlock Creek (PA)	242.0	124.2	22.49	.80	-	-	-	-	-	-	-	100	-	-
United Illuminating Co	-	-	-	-	7,533.8	470.0	29.38	.84	-	-	-	-	100	-
Bridgeport Harbor (CT)	-	-	-	-	4,136.2	468.4	29.32	.85	-	-	-	-	100	-
English (CT)	-	-	-	-	19.1	505.3	31.99	.96	-	-	-	-	100	-
New Haven Hbr (CT)	-	-	-	-	3,378.5	471.8	29.45	.82	-	-	-	-	100	-
United Power Assoc	897.3	98.5	13.55	.65	8.7	687.3	39.71	.50	-	-	-	100	*	-
Elk River (MN)	2.1	141.1	25.45	.67	-	-	-	-	-	-	-	100	-	-
Stanton (ND)	895.2	98.4	13.52	.65	8.7	687.3	39.71	.50	-	-	-	100	*	-
University of Illinois	-	-	-	-	-	-	-	-	344.4	389.5	3.89	-	-	100
Abbott (IL)	-	-	-	-	-	-	-	-	344.4	389.5	3.89	-	-	100
Upper Peninsula Gen Co	919.9	217.3	43.05	.64	-	-	-	-	-	-	-	100	-	-
Presque Isle (MI)	919.9	217.3	43.05	.64	-	-	-	-	-	-	-	100	-	-
Upper Peninsula Power	57.0	241.4	59.30	1.47	-	-	-	-	-	-	-	100	-	-
Escanaba (MI)	57.0	241.4	59.30	1.47	-	-	-	-	-	-	-	100	-	-
Utah Power and Lt	8,034.0	131.8	29.13	.50	35.0	597.0	40.98	.30	2,198.0	258.2	2.41	99	*	1
Carbon (UT)	376.0	151.8	36.16	.50	4.0	688.3	40.49	.30	-	-	-	100	*	-
Gadsby (UT)	342.0	167.8	39.17	.51	1.0	741.5	43.60	.30	1,991.0	243.3	2.29	81	*	19

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Utah Power and Lt														
Hale (UT)	22.0	163.2	36.56	0.51	-	-	-	-	74.0	241.9	2.27	88	-	12
Naughton (WY)	2,040.0	97.9	18.99	.52	5.0	713.7	41.97	0.30	133.0	515.6	4.37	100	*	*
Emery-Hunter (UT)	2,727.0	149.3	33.79	.56	13.0	702.1	41.28	.30	-	-	-	100	*	-
Huntington (UT)	2,527.0	127.3	29.81	.42	12.0	683.5	40.19	.30	-	-	-	100	*	-
Vero Beach Mun Utils	-	-	-	-	7.0	472.8	29.79	2.50	3,299.0	283.7	3.00	-	1	99
Vero Beach (FL)	-	-	-	-	7.0	472.8	29.79	2.50	3,299.0	283.7	3.00	-	1	99
Vineland, City of	84.1	215.8	55.81	1.40	81.1	464.0	29.00	1.84	-	-	-	81	19	-
H M Down (NJ)	84.1	215.8	55.81	1.40	81.1	464.0	29.00	1.84	-	-	-	81	19	-
Virginia Elec and Power	6,869.0	176.8	43.15	1.39	3,246.0	494.0	30.41	1.05	3,146.0	393.9	4.26	88	10	2
Kitty Hawk (GT) (NC)	-	-	-	-	8.0	706.0	41.51	.30	-	-	-	-	100	-
Bremo Bluff (VA)	565.0	201.4	49.94	.92	10.0	669.9	39.39	.30	-	-	-	100	*	-
Chesterfield (VA)	2,029.0	189.1	47.67	1.01	108.0	686.9	40.39	.24	-	-	-	99	1	-
Lowmoor (GT) (VA)	-	-	-	-	15.0	707.8	41.62	.20	-	-	-	-	100	-
Northern Neck(GT) (VA)	-	-	-	-	13.0	667.1	39.23	.28	-	-	-	-	100	-
Portsmouth (VA)	664.0	191.7	48.83	.96	23.0	707.9	41.62	.20	261.0	363.2	3.74	98	1	2
Possum Point (VA)	524.0	194.0	48.93	1.02	1,217.0	506.3	31.23	.66	-	-	-	64	36	-
Surry (GT) (VA)	-	-	-	-	2.0	676.1	39.75	.40	42.0	366.1	3.80	-	21	79
Yorktown (VA)	-	-	-	-	1,666.0	444.1	27.56	1.50	2,843.0	396.9	4.31	-	77	23
Mount Storm (WV)	3,087.0	154.6	36.73	1.89	186.0	696.2	40.91	.29	-	-	-	99	1	-
Virginia, Minn Dept of Pub Ut	115.7	204.2	35.49	.92	-	-	-	-	33.0	373.3	3.73	98	-	2
Virginia (MN)	115.7	204.2	35.49	.92	-	-	-	-	33.0	373.3	3.73	98	-	2
W Illinois Power Coop	70.6	119.7	26.50	3.41	2.9	738.8	42.62	.70	-	-	-	99	1	-
Pearl (GTS) (IL)	70.6	119.7	26.50	3.41	2.9	738.8	42.62	.70	-	-	-	99	1	-
Washington Water Power Co	-	-	-	-	-	-	-	-	99.5	346.1	3.56	-	-	100
Northeast (WA)	-	-	-	-	-	-	-	-	99.5	346.1	3.56	-	-	100
Wellington,city of	-	-	-	-	-	-	-	-	448.0	378.0	3.80	-	-	100
Wellington (KS)	-	-	-	-	-	-	-	-	448.0	378.0	3.80	-	-	100
West Penn Power (APS)	4,938.9	160.3	41.00	2.03	28.8	684.3	40.52	.27	84.2	375.1	3.75	100	*	*
Armstrong (PA)	618.2	155.4	40.25	1.35	2.5	708.0	41.93	.27	-	-	-	100	*	-
Hatfield (PA)	3,912.0	163.1	41.69	2.08	7.8	718.7	42.56	.27	-	-	-	100	*	-
Milesburg (PA)	-	-	-	-	2.8	479.6	28.40	.27	-	-	-	-	100	-
Mitchell (PA)	408.7	140.5	35.52	2.53	.7	724.9	42.93	.27	84.2	375.1	3.75	99	*	1
Springdale (PA)	-	-	-	-	15.0	698.7	41.38	.27	-	-	-	-	100	-
West Texas Utils (CSW)	-	-	-	-	126.0	588.2	35.59	.43	46,739.0	316.3	3.22	-	2	98
Abilene (TX)	-	-	-	-	1.0	558.3	34.00	.70	13.0	393.5	4.08	-	31	69
Concho (TX)	-	-	-	-	1.0	573.8	35.10	.45	374.0	391.7	4.20	-	2	98
Lake Pauline (TX)	-	-	-	-	-	-	-	-	158.0	393.7	4.45	-	-	100
Oak Creek (TX)	-	-	-	-	9.0	569.1	34.81	.45	4,628.0	400.1	4.35	-	1	99
Paint Creek (TX)	-	-	-	-	26.0	646.4	38.35	.31	7,385.0	396.4	4.16	-	2	98
Rio Pecos (TX)	-	-	-	-	-	-	-	-	11,248.0	21.0	.20	-	-	100
San Angelo (TX)	-	-	-	-	-	-	-	-	6,648.0	400.6	4.22	-	-	100
Fort Phantom (TX)	-	-	-	-	89.0	574.1	34.89	.46	16,285.0	403.2	4.12	-	3	97
Western Farmers Elec Coop	1,173.3	206.1	33.86	.44	35.7	677.7	39.51	.00	17,009.6	267.0	2.77	52	1	48
Anadarko (OK)	-	-	-	-	-	-	-	-	9,415.5	268.0	2.78	-	-	100
Mooreland (OK)	-	-	-	-	-	-	-	-	7,594.1	265.7	2.76	-	-	100
Hugo (OK)	1,173.3	206.1	33.86	.44	35.7	677.7	39.51	.00	-	-	-	99	1	-
Western Mass Elec (NU)	-	-	-	-	716.1	436.6	27.21	2.08	3,396.3	409.2	4.09	-	57	43
West Springfield (MA)	-	-	-	-	716.1	436.6	27.21	2.08	3,396.3	409.2	4.09	-	57	43
Willmar Mun Utils Comm	69.5	201.1	36.48	.88	-	-	-	-	-	-	-	100	-	-
Willmar (MN)	69.5	201.1	36.48	.88	-	-	-	-	-	-	-	100	-	-
Winfield Mun Elec Lt Dept	-	-	-	-	-	-	-	-	859.8	288.0	3.24	-	-	100
Winfield (KS)	-	-	-	-	-	-	-	-	859.8	288.0	3.24	-	-	100
Winnetka, Village of	19.9	219.9	53.65	1.33	-	-	-	-	67.1	414.8	4.27	88	-	12
Winnetka (IL)	19.9	219.9	53.65	1.33	-	-	-	-	67.1	414.8	4.27	88	-	12
Wisconsin Elec Power	5,380.9	172.3	37.26	1.88	158.2	682.6	39.80	.40	3,090.0	420.2	4.27	97	1	3
Commerce (WI)	-	-	-	-	2.5	693.1	41.44	.55	477.7	423.5	4.30	-	3	97

See notes and footnotes at end of table.
Source: Federal Power Commission Form 423.

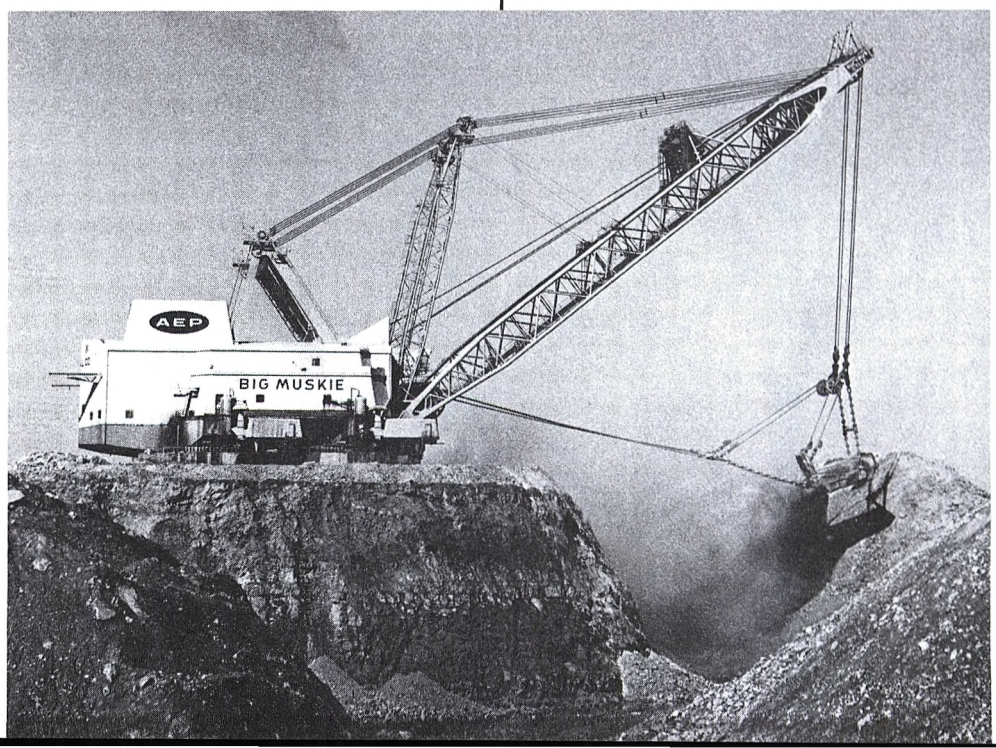
Table 56. Quantity, Cost, and Quality of Fossil Fuel Receipts at Electric Plants of 25-Megawatt Capacity or Larger, by Company and Plant, 1982—Continued

Company Plant (State)	Coal				Oil				Gas			% of Total Btu		
	Quantity 1000 Tons	¢ per 10^6 Btu	$ per Ton	% Avg. Sulfur	Quantity 1000 Bbls	¢ per 10^6 Btu	$ per Bbl	% Avg. Sulfur	Quantity 1000 Mcf	¢ per 10^6 Btu	$ per Mcf	Coal	Oil	Gas
Wisconsin Elec Power														
Lakeside (WI)	-	-	-	-	-	-	-	-	2,449.6	419.0	4.26	-	-	100
Oak Creek (WI)	2,982.4	166.8	39.53	2.53	71.7	676.8	39.64	0.40	4.3	316.4	3.22	99	1	*
Port Washington (WI)	664.2	168.5	43.12	2.88	.7	686.1	41.54	.44	-	-	-	100	*	-
Valley (WI)	-	-	-	-	-	-	-	-	158.4	430.5	4.36	-	-	100
Pleasant Prairie (WI)	1,734.3	188.2	31.12	.37	52.8	679.6	39.38	.44	-	-	-	99	1	-
Germantown (WI)	-	-	-	-	30.5	700.2	40.74	.29	-	-	-	-	100	-
Wisconsin Power and Lt	[1] 4,459.6	159.1	29.53	1.31	-	-	-	-	97.9	[2] 434.3	4.37	100	-	*
Blackhawk (WI)	10.7	187.9	41.22	3.15	-	-	-	-	19.1	[2] 433.8	4.40	92	-	8
Edgewater (WI)	862.2	168.9	36.21	2.73	-	-	-	-	-	-	-	100	-	-
Nelson Dewey (WI)	467.3	146.8	30.12	2.39	-	-	-	-	-	-	-	100	-	-
Rock River (WI)	[1] 179.9	161.6	40.53	3.31	-	-	-	-	78.8	434.5	4.37	98	-	2
Columbia (WI)	2,939.5	156.0	26.77	.59	-	-	-	-	-	-	-	100	-	-
Wisconsin Pub Serv Corp	1,366.0	204.7	42.36	1.37	28.9	682.6	39.56	.22	166.3	410.9	4.15	99	1	1
Pulliam (WI)	519.7	191.9	46.36	2.36	15.4	672.5	38.98	.22	-	-	-	99	1	-
W Marinette (GT) (WI)	-	-	-	-	-	-	-	-	49.9	413.5	4.16	-	-	100
Weston (WI)	846.3	214.9	39.91	.76	13.5	694.1	40.23	.22	116.4	409.8	4.14	99	*	1
Wyandotte Dept of Muni Serv	70.0	224.0	54.65	.75	-	-	-	-	104.6	461.8	4.70	94	-	6
Wyandotte (MI)	70.0	224.0	54.65	.75	-	-	-	-	104.6	461.6	4.70	94	-	6
U.S. Total	602,113.6	164.6	34.69	1.61	239,888.3	[2] 492.2	30.76	1.21	3,161,348.0	[2] 337.6	3.49	73	9	19

[1] Also includes Petroleum Coke, Refuse, Wood Waste, or Coke Breeze.
[2] The entry includes at least one delivery at a price of 1000 cents per million Btu or greater. High price is frequently caused when fixed costs are averaged into a small quantity.
* = Number less than 0.5 rounded to zero.
Note: Below are the specific fuels which are included in each of the 3 general fuel categories.
Coal: Bituminous, Subbituminous, Lignite, Anthracite, Wood Waste, Petroleum Coke, and Refuse.
Oil: Fuel Oil Nos 2, 4, 5, and 6, Crude, Topped Crude, Jet Fuel, Kerosene, Re-refined Motor Oil, and Liquefied Petroleum Gas.
Gas: Natural, Coke Oven, Refinery, and Blast Furnace.
Includes receipts at plants in Alaska and Hawaii. (All tables except company and plant level data are for the contiguous U.S. only.) Numbers may not equal the sum of the component parts because of independent rounding.
Source: Federal Power Commission Form 423.

Profile of Fuel Receipts

at Electric Utilities, 1979-1982



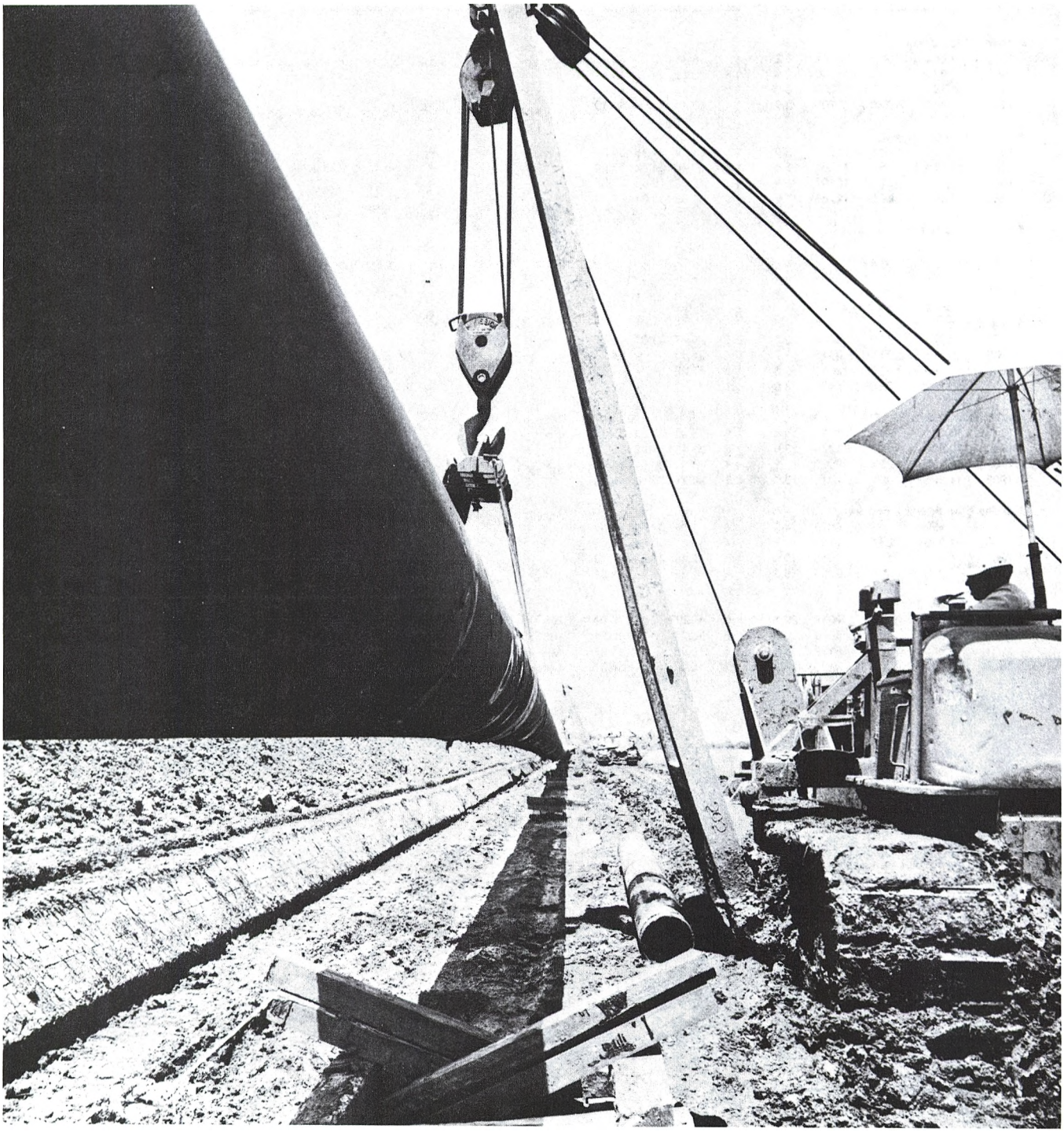
8. Profile of Fuel Receipts at Electric Utilities, 1979-1982

Included in this chapter are utilities which at one time filed Form 423 data but ceased reporting as a result of either retirement or derating of units below the minimum capacity requirement of 25 megawatts. The following is a list of such utilities:

1. Crawfordsville Elec. Lt. & Power
2. City of Cleveland
3. Danville Water Gas & Elec.
4. Jonesboro Water & Lt.

Texas Utilities Services reports receipts of fuel at the Big Brown, Martin Lake, and Monticello plants. Receipts were formerly reported by Texas Power & Lt.

Some utilities continue to file Form 423 but show no fossil-fuel purchases for 1 or more years. When no activity is reported during a full year, the computer program makes no entry for that year.



Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Alabama Elec Coop Inc																			
1979	662	100.0	11212	15.2	1.3	36.48	-	36.48	-	-	-	-	-	-	-	-	-	-	-
1980	815	100.0	11600	12.3	1.6	40.62	-	40.62	-	-	-	-	-	-	-	-	-	-	-
1981	708	100.0	11690	10.0	1.3	44.48	-	44.48	-	-	-	-	-	-	-	-	-	-	-
1982	845	100.0	11709	8.7	1.4	46.10	-	46.10	-	-	-	-	-	-	-	-	-	-	-
Alabama Power Co (SC)																			
1979	11,600	79.9	11998	13.0	1.5	36.29	31.55	35.34	-	-	-	-	-	-	-	340	-	136585	24.36
1980	13,368	75.6	11995	12.9	1.4	40.40	34.63	38.99	-	-	-	-	-	-	-	275	-	136729	36.34
1981	11,872	71.6	12107	12.4	1.4	48.42	45.84	47.68	-	-	-	-	-	-	-	184	-	136972	44.41
1982	11,337	99.0	12168	11.9	1.2	51.83	42.84	51.74	-	-	-	-	-	-	-	138	-	138349	41.26
Alexandria, City of																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ames, City of																			
1979	175	99.0	9439	13.6	2.6	29.87	21.01	29.78	-	-	-	-	-	-	-	9	-	138360	16.38
1980	111	100.0	9845	11.7	2.1	34.35	-	34.35	-	-	-	-	-	-	-	2	-	138277	32.85
1981	63	100.0	10043	8.5	1.3	44.92	-	44.92	-	-	-	-	-	-	-	4	-	137500	36.12
1982	130	100.0	8477	6.6	.8	32.79	-	32.79	-	-	-	-	-	-	-	12	-	137300	37.74
Appalachian Power (AEP)																			
1979	10,681	99.1	11830	14.4	.8	35.45	23.06	35.34	-	-	-	-	-	-	-	-	-	-	-
1980	13,294	96.7	11979	13.6	.8	38.43	31.99	38.22	-	-	-	-	-	-	-	-	-	-	-
1981	12,090	95.4	12021	13.5	.8	44.81	38.51	44.52	-	-	-	-	-	-	-	-	-	-	-
1982	11,295	98.3	12015	13.5	.7	48.74	39.50	48.40	-	-	-	-	-	-	-	-	-	-	-
Arizona Elec Power Coop Inc																			
1979	950	-	9873	14.8	.5	-	32.54	32.54	-	-	-	-	-	-	-	66	-	137858	32.34
1980	1,020	23.0	9703	15.3	.4	37.33	36.84	36.95	13	-	145000	0.4	-	23.87	23.87	53	80.8	137655	38.89
1981	1,208	14.7	9915	13.9	.5	47.45	43.90	44.42	-	-	-	-	-	-	-	-	-	-	-
1982	973	100.0	9707	16.0	.6	52.33	-	52.33	-	-	-	-	-	-	-	-	-	-	-
Arizona Pub Serv																			
1979	7,809	100.0	9019	20.1	.6	9.07	-	9.07	1,700	17.8	149791	.8	19.55	18.89	19.01	199	10.5	139327	28.34
1980	10,585	100.0	9003	20.4	.6	10.21	-	10.21	401	34.5	149614	.8	28.14	24.46	25.73	12	2.8	140998	38.09
1981	9,858	100.0	9199	19.4	.6	13.98	-	13.98	24	-	149326	.5	-	31.67	31.67	-	-	-	-
1982	10,857	100.0	9153	19.2	.7	15.37	-	15.37	117	-	147706	.6	-	32.32	32.32	-	-	-	-
Arkansas Elec Coop																			
1979	-	-	-	-	-	-	-	-	1,092	-	149915	2.6	-	15.40	15.40	-	-	-	-
1980	-	-	-	-	-	-	-	-	417	-	150177	2.8	-	20.11	20.11	-	-	-	-
1981	-	-	-	-	-	-	-	-	146	-	149664	2.5	-	26.91	26.91	-	-	-	-
1982	-	-	-	-	-	-	-	-	6	-	150000	2.8	-	26.16	26.16	-	-	-	-
Arkansas Power and Lt (MSU)																			
1979	-	-	-	-	-	-	-	-	6,332	100.0	150150	1.0	15.84	-	15.84	203	3.1	142256	16.30
1980	1,594	100.0	8599	6.8	.4	25.94	-	25.94	2,708	100.0	149585	1.3	21.16	-	21.16	311	10.3	142754	25.81
1981	4,173	100.0	8516	7.2	.5	28.71	-	28.71	654	100.0	150471	1.3	21.48	-	21.48	187	22.2	143987	37.10
1982	5,763	100.0	8570	6.7	.4	31.79	-	31.79	101	100.0	150378	1.3	25.08	-	25.08	203	66.7	139120	39.26
Assoc Elec Coop-Missouri																			
1979	4,389	100.0	10449	12.8	3.6	20.78	-	20.78	-	-	-	-	-	-	-	-	-	-	-
1980	4,683	99.9	10438	12.2	3.7	26.16	15.00	26.16	-	-	-	-	-	-	-	-	-	-	-
1981	4,170	99.5	10419	12.1	3.7	30.31	29.15	30.30	-	-	-	-	-	-	-	-	-	-	-
1982	4,689	94.8	10552	10.7	3.6	33.63	27.77	33.33	-	-	-	-	-	-	-	-	-	-	-
Atlantic City Elec																			
1979	636	100.0	12732	11.0	3.0	34.57	-	34.57	1,587	89.7	148453	1.9	17.84	13.91	17.43	[3] 437	21.6	135573	26.12
1980	635	100.0	12783	11.0	2.9	38.61	-	38.61	1,175	98.6	148369	1.9	23.24	34.50	23.39	[3] 548	31.8	135271	35.32
1981	483	98.0	12772	10.7	2.8	43.69	64.42	44.11	1,338	91.9	149083	1.9	31.95	28.01	31.63	[3] 247	15.6	134650	45.70
1982	613	96.4	12888	10.4	3.0	47.19	41.99	47.00	1,244	100.0	149492	1.8	28.21	-	28.21	[3] 38	3.0	135787	46.16

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Alabama Elec Coop Inc																				
1979	490	1028	1.98	-	1.98	-	15,346	14,843	-	503	97	-	3	25,117	24,149	-	968	96	-	4
1980	-	-	-	-	-	-	18,907	18,907	-	-	100	-	-	33,098	33,098	-	-	100	-	-
1981	13	1023	4.03	-	4.03	-	16,556	16,542	-	13	100	-	0	31,525	31,472	-	53	100	-	0
1982	1	1026	4.32	-	4.32	-	19,787	19,786	-	1	100	-	0	38,958	38,952	-	6	100	-	0
Alabama Power Co (SC)																				
1979	6,793	1127	2.60	-	2.60	-	287,976	278,367	1,952	7,658	97	1	3	435,871	409,936	8,289	17,646	94	2	4
1980	1,381	1133	2.80	3.02	2.96	74.5	323,849	320,706	1,578	1,565	99	0	0	535,340	521,260	9,986	4,095	97	2	1
1981	1,732	1135	3.32	3.28	3.28	90.5	290,474	287,450	1,058	1,966	99	0	1	579,929	566,078	8,169	5,681	98	1	1
1982	1,341	1125	4.32	3.30	3.38	92.3	278,209	275,899	802	1,508	99	0	1	596,777	586,558	5,693	4,526	98	1	1
Alexandria, City of																				
1979	5,364	1025	2.43	-	2.43	-	5,498	-	-	5,498	-	-	100	13,047	-	-	13,047	-	-	100
1980	6,242	994	2.87	-	2.87	-	6,204	-	-	6,204	-	-	100	17,901	-	-	17,901	-	-	100
1981	4,791	1025	3.66	-	3.66	-	4,909	-	-	4,909	-	-	100	17,528	-	-	17,528	-	-	100
1982	3,578	1040	4.07	-	4.07	-	3,722	-	-	3,722	-	-	100	14,567	-	-	14,567	-	-	100
Ames, City of																				
1979	24	1000	1.52	-	1.52	-	3,384	3,310	50	24	98	1	1	5,399	5,222	140	37	97	3	1
1980	12	1000	1.96	-	1.96	-	2,206	2,180	14	12	99	1	1	3,904	3,803	77	24	97	2	1
1981	29	1000	1.96	-	1.96	-	1,316	1,264	23	29	96	2	2	3,029	2,827	145	57	93	5	2
1982	2	1000	3.94	-	3.94	-	2,281	2,209	70	2	97	3	0	4,739	4,272	457	9	90	10	0
Appalachian Power (AEP)																				
1979	-	-	-	-	-	-	252,718	252,718	-	-	100	-	-	377,444	377,444	-	-	100	-	-
1980	-	-	-	-	-	-	318,511	318,511	-	-	100	-	-	508,035	508,035	-	-	100	-	-
1981	-	-	-	-	-	-	290,680	290,680	-	-	100	-	-	538,311	538,311	-	-	100	-	-
1982	-	-	-	-	-	-	271,404	271,404	-	-	100	-	-	546,712	546,712	-	-	100	-	-
Arizona Elec Power Coop Inc																				
1979	3,509	1057	1.88	-	1.88	-	22,849	18,758	383	3,707	82	2	16	39,672	30,917	2,142	6,613	78	5	17
1980	3,497	1061	2.26	-	2.26	-	23,889	19,793	387	3,710	83	2	16	47,984	37,692	2,382	7,910	79	5	16
1981	3,294	1045	2.67	-	2.67	-	27,388	23,945	-	3,442	87	-	13	62,423	53,641	-	8,782	86	-	14
1982	817	1044	3.82	-	3.82	-	19,750	18,898	-	853	96	-	4	54,055	50,937	-	3,119	94	-	6
Arizona Pub Serv																				
1979	20,649	1061	2.16	2.48	2.16	2.2	174,616	140,854	11,860	21,903	81	7	13	153,491	70,859	37,958	44,674	46	25	29
1980	18,238	1058	-	2.65	2.65	100.0	212,483	190,594	2,588	19,301	90	1	9	167,110	108,050	10,757	48,304	65	6	29
1981	19,225	1051	-	2.85	2.85	100.0	201,736	181,372	152	20,211	90	0	10	193,406	137,795	769	54,841	71	0	28
1982	13,087	1049	-	3.97	3.97	100.0	213,185	198,735	725	13,725	93	0	6	222,641	166,852	3,778	52,011	75	2	23
Arkansas Elec Coop																				
1979	1,202	1014	1.93	-	1.93	-	8,095	-	6,877	1,218	-	85	15	19,135	-	16,818	2,317	-	88	12
1980	5,536	1022	2.48	-	2.48	-	8,287	-	2,629	5,658	-	32	68	22,127	-	8,384	13,743	-	38	62
1981	4,214	1018	2.93	-	2.93	-	5,206	-	916	4,290	-	18	82	16,284	-	3,922	12,362	-	24	76
1982	3,161	1021	3.48	3.82	3.48	.1	3,266	-	40	3,226	-	1	99	11,159	-	167	10,992	-	1	99
Arkansas Power and Lt (MSU)																				
1979	29,901	1026	1.77	-	1.77	-	71,830	-	41,143	30,687	-	57	43	156,453	-	103,605	52,848	-	66	34
1980	54,783	1027	2.19	-	2.19	-	102,553	27,416	18,880	56,257	27	18	55	226,750	41,356	65,336	120,058	18	29	53
1981	51,876	1023	2.73	2.98	2.73	.9	129,423	71,081	5,261	53,081	55	4	41	282,578	119,795	20,970	141,814	42	7	50
1982	29,144	1033	3.04	3.20	3.05	1.5	130,725	98,784	1,827	30,114	76	1	23	282,490	183,180	10,518	88,792	65	4	31
Assoc Elec Coop-Missouri																				
1979	-	-	-	-	-	-	91,715	91,715	-	-	100	-	-	91,186	91,186	-	-	100	-	-
1980	-	-	-	-	-	-	101,947	101,947	-	-	100	-	-	127,730	127,730	-	-	100	-	-
1981	-	-	-	-	-	-	86,894	86,894	-	-	100	-	-	126,354	126,354	-	-	100	-	-
1982	-	-	-	-	-	-	103,177	103,177	-	-	100	-	-	162,966	162,966	-	-	100	-	-
Atlantic City Elec																				
1979	-	-	-	-	-	-	28,571	16,191	12,379	-	57	43	-	61,046	21,982	39,065	-	36	64	-
1980	213	1038	4.75	-	4.75	-	26,906	16,245	10,439	222	60	39	1	72,399	24,531	46,854	1,014	34	65	1
1981	199	1037	4.82	-	4.82	-	22,312	12,334	9,772	206	55	44	1	75,845	21,297	53,591	956	28	71	1
1982	377	1033	4.69	-	4.69	-	24,213	15,794	8,029	390	65	33	2	67,421	28,601	36,849	1,770	43	55	3

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Austin Elec Dept, City of																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	[1] 53	-	144086	0.9	-	43.69	43.69	1	1.6	137000	42.94
1982	-	-	-	-	-	-	-	-	[1] 27	-	147500	.0	-	44.02	44.02	34	56.1	137000	41.03
Austin Utils																			
1979	[1] 50	1.9	12583	8.6	1.9	39.64	40.36	40.34	[1] 60	-	147156	1.7	-	14.39	14.39	-	-	-	-
1980	22	-	12444	7.8	1.8	-	47.37	47.37	[1] 3	-	136118	.4	-	12.29	12.29	-	-	-	-
1981	38	-	12446	7.8	1.9	-	51.36	51.36	[1] 2	-	136118	.4	-	15.12	15.12	-	-	-	-
1982	53	-	12331	8.0	1.8	-	53.22	53.22	0	-	150000	1.9	-	31.42	31.42	-	-	-	-
Baltimore Gas and Elec																			
1979	545	100.0	12621	10.2	.9	46.42	-	46.42	7,637	100.0	147089	1.0	19.81	-	19.81	104	1.3	138508	24.64
1980	815	82.2	12875	9.0	1.1	47.41	40.98	46.26	4,914	100.0	148486	1.0	27.32	-	27.32	[1] 200	3.9	138027	33.94
1981	534	98.5	12935	8.8	.9	53.04	49.90	52.99	4,131	100.0	148920	1.0	32.02	-	32.02	[1] 69	1.6	135508	41.74
1982	623	84.9	12954	8.5	.9	55.04	46.49	53.75	3,484	100.0	149723	1.0	29.46	-	29.46	19	.5	138127	40.17
Bangor Hydro																			
1979	-	-	-	-	-	-	-	-	100	-	148745	2.2	-	16.12	16.12	-	-	-	-
1980	-	-	-	-	-	-	-	-	174	-	148770	2.2	-	24.71	24.71	-	-	-	-
1981	-	-	-	-	-	-	-	-	83	-	149070	2.2	-	32.52	32.52	-	-	-	-
1982	-	-	-	-	-	-	-	-	99	-	149583	2.2	-	28.72	28.72	-	-	-	-
Basin Elec Power Coop																			
1979	3,077	8.9	6605	13.5	.5	9.45	6.16	6.45	-	-	-	-	-	-	-	-	-	-	-
1980	4,146	49.9	6791	12.5	.7	8.23	6.96	7.60	-	-	-	-	-	-	-	-	-	-	-
1981	6,312	100.0	7508	9.7	.4	10.43	-	10.43	-	-	-	-	-	-	-	-	-	-	-
1982	7,399	100.0	7812	6.5	.4	13.84	-	13.84	-	-	-	-	-	-	-	-	-	-	-
Big Rivers Rural Elec Coop																			
1979	2,969	96.6	11028	12.6	3.0	20.30	20.97	20.33	-	-	-	-	-	-	-	8	-	136000	24.37
1980	3,866	86.9	11003	12.3	2.8	25.55	24.87	25.47	-	-	-	-	-	-	-	24	-	136000	35.72
1981	3,588	94.7	11109	12.5	2.9	29.02	28.05	28.97	-	-	-	-	-	-	-	35	-	136000	45.56
1982	3,505	89.5	10997	12.3	2.7	31.28	23.84	30.50	-	-	-	-	-	-	-	16	-	136000	41.32
Black Hills Power and Lt																			
1979	620	100.0	8039	6.3	.4	8.28	-	8.28	-	-	-	-	-	-	-	32	-	135000	28.54
1980	554	100.0	7938	6.8	.5	9.91	-	9.91	-	-	-	-	-	-	-	52	-	135000	37.20
1981	537	100.0	7975	7.6	.5	12.07	-	12.07	-	-	-	-	-	-	-	16	-	135000	43.71
1982	534	100.0	8000	7.3	.5	13.22	-	13.22	-	-	-	-	-	-	-	3	-	135000	44.53
Boston Edison																			
1979	-	-	-	-	-	-	-	-	14,065	90.4	147734	.9	19.77	21.23	19.91	100	.7	137560	24.98
1980	-	-	-	-	-	-	-	-	14,731	89.2	148586	.9	26.42	22.52	26.00	78	.5	138601	34.66
1981	-	-	-	-	-	-	-	-	12,392	97.1	148169	1.2	31.18	32.16	31.20	46	.4	137366	44.08
1982	-	-	-	-	-	-	-	-	10,545	94.1	148969	1.3	27.71	26.56	27.64	37	.4	138088	41.50
Brazos Elec Power Coop																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	139000	31.93
Brownsville Pub Utils Bd																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bryan Mun Elec																			
1979	-	-	-	-	-	-	-	-	[1] 38	-	143812	.4	-	17.97	17.97	2	5.8	138296	15.65
1980	-	-	-	-	-	-	-	-	[1] 6	-	143599	.0	-	20.58	20.58	-	-	-	-
1981	-	-	-	-	-	-	-	-	[1] 18	-	143648	.1	-	26.07	26.07	-	-	-	-
1982	-	-	-	-	-	-	-	-	[1] 28	-	143435	.5	-	29.58	29.58	14	32.8	142759	40.20

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Austin Elec Dept, City of																				
1979	25,884	1015	-	2.29	2.29	100.0	26,263	-	-	26,263	-	-	100	59,365	-	-	59,365	-	-	100
1980	21,154	1019	-	2.61	2.61	100.0	21,556	-	-	21,556	-	-	100	55,177	-	-	55,177	-	-	100
1981	28,534	1020	-	3.42	3.42	100.0	29,420	-	324	29,096	-	1	99	99,813	-	2,337	97,476	-	2	98
1982	24,100	1004	-	4.13	4.13	100.0	24,549	-	362	24,187	-	1	99	102,210	-	2,578	99,631	-	3	97
Austin Utils																				
1979	1,628	985	1.71	1.84	1.72	7.8	3,236	1,261	372	1,603	39	11	50	5,694	2,022	865	2,807	36	15	49
1980	1,579	992	1.97	2.14	1.98	7.7	2,141	557	19	1,566	26	1	73	4,228	1,060	40	3,128	25	1	74
1981	914	994	2.58	2.75	2.60	14.2	1,865	945	11	909	51	1	49	4,359	1,949	30	2,380	45	1	55
1982	781	1000	3.43	3.61	3.46	16.6	2,099	1,317	1	781	63	0	37	5,552	2,842	5	2,705	51	0	49
Baltimore Gas and Elec																				
1979	8,731	1078	1.86	-	1.86	-	70,949	13,756	47,784	9,408	19	67	13	195,399	25,301	153,867	16,231	13	79	8
1980	4,782	1021	2.46	-	2.46	-	57,671	20,981	31,805	4,885	36	55	8	190,506	37,696	141,051	11,760	20	74	6
1981	5,763	1015	2.73	-	2.73	-	45,892	13,815	26,231	5,847	30	57	13	179,181	28,296	135,144	15,741	16	75	9
1982	615	1021	4.00	-	4.00	-	38,787	16,140	22,019	628	42	57	2	139,353	33,485	103,405	2,463	24	74	2
Bangor Hydro																				
1979	-	-	-	-	-	-	625	-	625	-	-	100	-	1,612	-	1,612	-	-	100	-
1980	-	-	-	-	-	-	1,087	-	1,087	-	-	100	-	4,296	-	4,296	-	-	100	-
1981	-	-	-	-	-	-	521	-	521	-	-	100	-	2,705	-	2,705	-	-	100	-
1982	-	-	-	-	-	-	621	-	621	-	-	100	-	2,837	-	2,837	-	-	100	-
Basin Elec Power Coop																				
1979	-	-	-	-	-	-	40,656	40,656	-	-	100	-	-	19,863	19,863	-	-	100	-	-
1980	-	-	-	-	-	-	56,312	56,312	-	-	100	-	-	31,493	31,493	-	-	100	-	-
1981	-	-	-	-	-	-	94,773	94,773	-	-	100	-	-	65,829	65,829	-	-	100	-	-
1982	-	-	-	-	-	-	115,593	115,593	-	-	100	-	-	102,424	102,424	-	-	100	-	-
Big Rivers Rural Elec Coop																				
1979	77	1000	2.13	-	2.13	-	65,597	65,474	46	77	100	0	0	60,700	60,340	195	164	99	0	0
1980	83	1000	2.80	-	2.80	-	85,298	85,078	137	83	100	0	0	99,570	98,483	854	233	99	1	0
1981	79	1000	3.22	-	3.22	-	80,004	79,728	198	78	100	0	0	105,790	103,960	1,576	254	98	1	0
1982	82	1000	4.10	-	4.10	-	77,272	77,097	93	82	100	0	0	107,937	106,926	673	338	99	1	0
Black Hills Power and Lt																				
1979	23	933	-	2.22	2.22	100.0	10,164	9,962	181	21	98	2	0	6,093	5,133	909	50	84	15	1
1980	17	927	-	2.62	2.62	100.0	9,103	8,795	293	16	97	3	0	7,454	5,488	1,921	45	74	26	1
1981	13	938	-	3.20	3.20	100.0	8,670	8,569	89	13	99	1	0	7,214	6,486	684	43	90	9	1
1982	14	928	-	3.53	3.53	100.0	8,576	8,547	16	13	100	0	0	7,237	7,063	123	50	98	2	1
Boston Edison																				
1979	194	1047	1.76	-	1.76	-	88,050	-	87,847	203	-	100	0	282,884	-	282,542	342	-	100	0
1980	157	1000	2.51	-	2.51	-	92,540	-	92,384	157	-	100	0	386,105	-	385,711	393	-	100	0
1981	285	1000	2.66	-	2.66	-	77,669	-	77,383	285	-	100	0	389,479	-	388,720	760	-	100	0
1982	7,879	1095	4.22	-	4.22	-	74,826	-	66,195	8,631	-	88	12	326,244	-	293,016	33,229	-	90	10
Brazos Elec Power Coop																				
1979	15,838	1007	-	2.25	2.25	100.0	15,953	-	-	15,953	-	-	100	35,649	-	-	35,649	-	-	100
1980	20,363	1011	-	2.59	2.59	100.0	20,591	-	-	20,591	-	-	100	52,750	-	-	52,750	-	-	100
1981	16,993	1010	-	3.17	3.17	100.0	17,159	-	-	17,159	-	-	100	53,836	-	-	53,836	-	-	100
1982	15,927	1009	-	3.68	3.68	100.0	16,087	-	11	16,076	-	0	100	58,643	-	61	58,582	-	0	100
Brownsville Pub Utils Bd																				
1979	3,742	1000	2.31	2.36	2.31	5.7	3,744	-	-	3,744	-	-	100	8,661	-	-	8,661	-	-	100
1980	3,797	1000	2.62	-	2.62	-	3,797	-	-	3,797	-	-	100	9,939	-	-	9,939	-	-	100
1981	1,883	1000	3.40	-	3.40	-	1,883	-	-	1,883	-	-	100	6,413	-	-	6,413	-	-	100
1982	1,930	1000	4.13	-	4.13	-	1,930	-	-	1,930	-	-	100	7,977	-	-	7,977	-	-	100
Bryan Mun Elec																				
1979	5,413	1021	2.07	2.45	2.07	.1	5,769	-	241	5,529	-	4	96	11,918	-	713	11,205	-	6	94
1980	6,408	1078	2.49	-	2.49	-	6,942	-	37	6,906	-	1	99	16,067	-	125	15,942	-	1	99
1981	6,289	1080	3.30	-	3.30	-	6,905	-	110	6,794	-	2	98	21,235	-	477	20,759	-	2	98
1982	4,173	1143	4.51	-	4.51	-	5,021	-	251	4,769	-	5	95	20,183	-	1,382	18,801	-	7	93

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Burbank Pub Serv Dept																			
1979	-	-	-	-	-	-	-	-	828	100.0	147084	0.2	21.51	-	21.51	[3] 2	0.2	138851	27.18
1980	-	-	-	-	-	-	-	-	282	100.0	146134	.2	39.88	-	39.88	-	-	-	-
1981	-	-	-	-	-	-	-	-	51	100.0	146073	.3	41.72	-	41.72	-	-	-	-
1982	-	-	-	-	-	-	-	-	23	100.0	145256	.2	37.68	-	37.68	-	-	-	-
Burlington Elec Department																			
1979	13	-	12963	10.7	1.5	-	45.95	45.95	-	-	-	-	-	-	-	18	-	139000	33.35
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	137477	39.12
1981	[1] 61	-	7322	3.2	.6	-	30.02	30.02	-	-	-	-	-	-	-	14	-	136969	41.74
1982	[1] 119	-	7521	3.4	.6	-	31.13	31.13	-	-	-	-	-	-	-	10	-	137447	43.52
Cajun Elec Power Coop																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	207	-	141554	23.90
1980	2,068	100.0	8019	5.9	.4	31.36	-	31.36	-	-	-	-	-	-	-	134	-	140542	34.07
1981	2,938	100.0	8056	5.9	.4	34.87	-	34.87	-	-	-	-	-	-	-	254	-	138800	41.83
1982	1,171	100.0	8076	6.0	.4	38.44	-	38.44	-	-	-	-	-	-	-	196	-	141592	38.01
Cambridge Elec Lt Co (NEGA)																			
1979	-	-	-	-	-	-	-	-	297	90.6	145772	.5	19.42	13.00	18.81	[3] 8	2.6	133468	26.24
1980	-	-	-	-	-	-	-	-	253	100.0	145573	.5	31.81	-	31.81	[3] 10	3.8	133468	37.07
1981	-	-	-	-	-	-	-	-	176	100.0	146492	.5	37.06	-	37.06	-	-	-	-
1982	-	-	-	-	-	-	-	-	136	100.0	148799	.5	33.05	-	33.05	[3] 2	1.4	134358	43.79
Canal Elec Co																			
1979	-	-	-	-	-	-	-	-	9,768	97.2	149011	2.1	16.95	11.93	16.81	-	-	-	-
1980	-	-	-	-	-	-	-	-	9,639	94.8	149729	2.1	22.81	20.41	22.68	-	-	-	-
1981	-	-	-	-	-	-	-	-	9,958	99.5	148852	2.1	28.60	32.45	28.62	-	-	-	-
1982	-	-	-	-	-	-	-	-	9,424	100.0	149390	2.1	25.97	-	25.97	-	-	-	-
Cardinal Operating Co (AEP)																			
1979	4,358	70.4	11470	14.4	1.8	28.61	25.68	27.74	-	-	-	-	-	-	-	-	-	-	-
1980	3,915	79.5	11873	13.6	1.8	32.80	31.09	32.45	-	-	-	-	-	-	-	-	-	-	-
1981	4,392	95.5	11586	13.8	2.0	35.67	38.84	35.81	-	-	-	-	-	-	-	-	-	-	-
1982	4,064	88.7	11666	13.0	2.1	39.49	33.28	38.79	-	-	-	-	-	-	-	-	-	-	-
Carolina Power and Lt																			
1979	7,317	94.1	12280	11.7	.9	34.48	31.13	34.29	-	-	-	-	-	-	-	366	-	138000	23.23
1980	9,098	84.4	12366	11.4	.9	38.81	38.54	38.48	-	-	-	-	-	-	-	338	-	137947	33.63
1981	9,704	82.0	12297	11.5	.9	42.60	43.80	42.81	-	-	-	-	-	-	-	274	-	138000	42.74
1982	10,035	93.7	12318	11.1	.8	47.69	40.72	47.26	-	-	-	-	-	-	-	255	-	138000	40.23
Cedar Falls Utils																			
1979	79	100.0	11604	8.5	2.1	37.48	-	37.48	-	-	-	-	-	-	-	-	-	-	-
1980	25	100.0	12102	8.4	2.2	42.08	-	42.08	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cent Elec Power Coop-MO																			
1979	74	-	10886	11.3	3.6	-	29.06	29.06	-	-	-	-	-	-	-	-	-	-	-
1980	147	-	10696	12.2	3.6	-	29.14	29.14	-	-	-	-	-	-	-	-	-	-	-
1981	195	-	11133	8.2	3.8	-	26.65	26.65	-	-	-	-	-	-	-	-	-	-	-
1982	212	-	11140	10.2	3.5	-	31.60	31.60	-	-	-	-	-	-	-	-	-	-	-
Cent Hudson Gas and Elec																			
1979	-	-	-	-	-	-	-	-	12,027	100.0	148195	1.7	16.31	-	16.31	-	-	-	-
1980	-	-	-	-	-	-	-	-	11,181	100.0	148354	1.6	23.17	-	23.17	-	-	-	-
1981	-	-	-	-	-	-	-	-	12,093	98.8	148846	1.6	29.90	33.59	29.94	-	-	-	-
1982	-	-	-	-	-	-	-	-	10,981	99.7	149225	1.6	27.26	28.84	27.27	-	-	-	-
Cent Illinois Lt																			
1979	2,613	98.9	10535	9.3	1.8	34.70	50.93	34.88	-	-	-	-	-	-	-	-	-	-	-
1980	2,355	97.9	10712	8.9	1.9	36.55	44.58	36.72	-	-	-	-	-	-	-	-	-	-	-
1981	2,225	93.4	11160	8.5	1.5	45.32	50.61	45.66	-	-	-	-	-	-	-	-	-	-	-
1982	2,428	83.4	11337	8.0	2.0	45.85	63.48	48.79	-	-	-	-	-	-	-	16	-	137384	39.15

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Burbank Pub Serv Dept																				
1979	2,011	1076	2.59	-	2.59	-	7,291	-	5,127	2,164	-	70	30	23,064	-	17,863	5,201	-	77	23
1980	4,902	1053	3.53	-	3.53	-	6,890	-	1,731	5,159	-	25	75	28,528	-	11,246	17,282	-	39	61
1981	5,454	1058	3.89	-	3.89	-	6,084	-	313	5,771	-	5	95	23,327	-	2,128	21,199	-	9	91
1982	4,098	1059	5.32	-	5.32	-	4,478	-	140	4,338	-	3	97	22,656	-	867	21,789	-	4	96
Burlington Elec Department																				
1979	534	1000	2.63	-	2.63	-	977	335	107	534	34	11	55	2,611	594	614	1,403	23	24	54
1980	239	1000	4.50	-	4.50	-	255	-	16	239	-	6	94	1,181	-	106	1,075	-	9	91
1981	193	1000	4.62	-	4.62	-	1,168	896	80	193	77	7	16	3,345	1,837	580	929	55	17	28
1982	107	1000	5.00	-	5.00	-	1,946	1,783	55	107	92	3	6	4,642	3,691	414	536	80	9	12
Cajun Elec Power Coop																				
1979	11,283	1037	-	0.85	.85	100.0	12,926	-	1,230	11,696	-	10	90	14,523	-	4,945	9,578	-	34	66
1980	15,339	1022	-	1.30	1.30	100.0	49,632	33,165	790	15,677	67	2	32	89,365	64,842	4,558	19,965	73	5	22
1981	15,146	1035	-	1.72	1.72	100.0	64,500	47,341	1,482	15,677	73	2	24	139,227	102,476	10,637	26,113	74	8	19
1982	10,705	1047	-	1.17	1.17	100.0	31,287	18,910	1,167	11,210	60	4	36	65,027	45,000	7,457	12,570	69	11	19
Cambridge Elec Lt Co (NEGA)																				
1979	2,878	1000	2.66	-	2.66	-	4,741	-	1,863	2,878	-	39	61	13,444	-	5,797	7,647	-	43	57
1980	2,256	1000	3.95	-	3.95	-	3,659	-	1,603	2,256	-	42	58	17,326	-	8,420	8,906	-	49	51
1981	1,849	1000	4.53	-	4.53	-	2,932	-	1,083	1,849	-	37	63	14,897	-	6,522	8,375	-	44	56
1982	1,535	1000	4.44	-	4.44	-	2,396	-	861	1,535	-	36	64	11,404	-	4,582	6,822	-	40	60
Canal Elec Co																				
1979	-	-	-	-	-	-	61,132	-	61,132	-	-	100	-	164,184	-	164,184	-	-	100	-
1980	-	-	-	-	-	-	60,616	-	60,616	-	-	100	-	218,644	-	218,644	-	-	100	-
1981	-	-	-	-	-	-	62,255	-	62,255	-	-	100	-	285,019	-	285,019	-	-	100	-
1982	-	-	-	-	-	-	59,130	-	59,130	-	-	100	-	244,732	-	244,732	-	-	100	-
Cardinal Operating Co (AEP)																				
1979	-	-	-	-	-	-	99,879	99,879	-	-	100	-	-	120,902	120,902	-	-	100	-	-
1980	-	-	-	-	-	-	91,393	91,393	-	-	100	-	-	127,047	127,047	-	-	100	-	-
1981	-	-	-	-	-	-	101,768	101,768	-	-	100	-	-	157,273	157,273	-	-	100	-	-
1982	-	-	-	-	-	-	94,818	94,818	-	-	100	-	-	157,644	157,644	-	-	100	-	-
Carolina Power and Lt																				
1979	165	1075	2.46	-	2.46	-	181,996	179,698	2,121	177	99	1	0	259,781	250,874	8,502	405	97	3	0
1980	612	1033	2.88	-	2.88	-	227,610	225,020	1,958	632	99	1	0	363,018	349,896	11,361	1,760	96	3	0
1981	229	1034	4.16	-	4.16	-	240,480	238,655	1,589	237	99	1	0	428,128	415,460	11,715	954	97	3	0
1982	85	1029	4.46	-	4.46	-	248,777	247,213	1,477	87	99	1	0	484,819	474,190	10,250	378	98	2	0
Cedar Falls Utils																				
1979	99	1000	-	1.84	1.84	100.0	1,937	1,838	-	99	95	-	5	3,150	2,968	-	181	94	-	6
1980	36	985	-	2.37	2.37	100.0	646	610	-	36	94	-	6	1,146	1,060	-	86	93	-	7
1981	13	986	-	3.12	3.12	100.0	13	-	-	13	-	-	100	40	-	-	40	-	-	100
1982	5	991	-	4.15	4.15	100.0	5	-	-	5	-	-	100	19	-	-	19	-	-	100
Cent Elec Power Coop-MO																				
1979	-	-	-	-	-	-	1,611	1,611	-	-	100	-	-	2,150	2,150	-	-	100	-	-
1980	-	-	-	-	-	-	3,145	3,145	-	-	100	-	-	4,284	4,284	-	-	100	-	-
1981	-	-	-	-	-	-	4,342	4,342	-	-	100	-	-	5,196	5,196	-	-	100	-	-
1982	-	-	-	-	-	-	4,724	4,724	-	-	100	-	-	6,699	6,699	-	-	100	-	-
Cent Hudson Gas and Elec																				
1979	2,642	1012	2.04	-	2.04	-	77,532	-	74,858	2,674	-	97	3	201,512	-	196,124	5,387	-	97	3
1980	3,413	1014	2.64	-	2.64	-	73,128	-	69,666	3,462	-	95	5	268,090	-	259,064	9,026	-	97	3
1981	4,589	1016	3.28	-	3.28	-	80,261	-	75,600	4,661	-	94	6	377,125	-	362,064	15,062	-	96	4
1982	3,448	1028	4.03	-	4.03	-	72,368	-	68,823	3,545	-	95	5	313,355	-	299,452	13,902	-	96	4
Cent Illinois Lt																				
1979	468	1000	-	1.70	1.70	100.0	55,514	55,046	-	468	99	-	1	91,930	91,132	-	798	99	-	1
1980	649	982	-	2.43	2.43	100.0	51,095	50,458	-	637	99	-	1	88,061	86,484	-	1,577	98	-	2
1981	587	981	-	3.06	3.06	100.0	50,328	49,752	-	576	99	-	1	103,399	101,604	-	1,795	98	-	2
1982	493	991	-	3.82	3.82	100.0	55,633	55,052	92	489	99	0	1	120,967	118,457	626	1,883	98	1	2

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Cent Illinois Pub Serv																			
1979	5,449	58.5	10480	13.0	3.2	22.89	29.46	25.61	349	100.0	150220	0.5	18.55	-	18.55	6	1.8	137274	26.98
1980	5,228	87.9	10536	14.1	3.1	26.12	25.37	27.79	60	100.0	150479	.7	26.65	-	26.65	0	.8	136834	36.19
1981	4,753	89.6	10775	11.8	3.1	30.96	35.64	31.45	-	-	-	-	-	-	-	1	-	136758	44.79
1982	5,141	93.4	10702	11.8	3.2	34.21	30.26	33.96	-	-	-	-	-	-	-	18	-	137685	43.23
Cent Kansas Power Co																			
1979	-	-	-	-	-	-	-	-	37	-	150000	.8	-	14.69	14.69	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cent Louisiana Elec																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	240	-	145786	.7	-	26.00	26.00	-	-	-	-
1981	196	100.0	8538	7.0	.4	35.52	-	35.52	93	-	145797	.7	-	34.76	34.76	-	-	-	-
1982	515	100.0	8581	6.5	.4	38.56	-	38.56	-	-	-	-	-	-	-	-	-	-	-
Cent Maine Power																			
1979	-	-	-	-	-	-	-	-	2,415	96.3	148694	1.4	18.01	15.46	17.91	17	.7	139418	27.68
1980	-	-	-	-	-	-	-	-	3,271	94.7	148702	1.3	27.68	24.48	27.51	22	.7	137963	36.68
1981	-	-	-	-	-	-	-	-	3,702	75.7	148835	1.0	33.85	31.25	33.22	27	.7	137989	46.14
1982	-	-	-	-	-	-	-	-	2,933	83.1	149519	1.2	30.17	31.27	30.38	45	1.5	138565	43.86
Cent Neb Pub Pwr and Ir Dept																			
1979	-	-	-	-	-	-	-	-	193	100.0	150000	1.1	14.22	-	14.22	-	-	-	-
1980	-	-	-	-	-	-	-	-	63	100.0	150000	1.1	20.85	-	20.85	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cent Operating Co (AEP)																			
1979	2,201	97.3	11387	15.4	1.0	35.79	30.66	35.65	-	-	-	-	-	-	-	-	-	-	-
1980	2,002	99.1	11587	13.6	1.0	36.71	30.86	36.66	-	-	-	-	-	-	-	-	-	-	-
1981	1,697	86.6	11334	15.4	1.0	38.75	40.56	38.99	-	-	-	-	-	-	-	-	-	-	-
1982	1,752	91.7	11851	13.1	1.0	45.93	41.22	45.54	-	-	-	-	-	-	-	-	-	-	-
Cent Power and Lt (CSW)																			
1979	75	44.3	10890	10.2	.4	39.42	38.22	38.75	[2] 34	-	147900	.7	-	14.29	14.29	25	42.5	147300	16.58
1980	983	100.0	10555	6.5	.4	43.88	-	43.88	-	-	-	-	-	-	-	-	-	-	-
1981	1,776	100.0	10584	6.0	.3	47.82	-	47.82	-	-	-	-	-	-	-	-	-	-	-
1982	2,036	100.0	10680	5.5	.3	52.69	-	52.69	-	-	-	-	-	-	-	-	-	-	-
Cent Tele and Util Corp-Col																			
1979	182	100.0	9709	20.0	.5	15.15	-	15.15	-	-	-	-	-	-	-	31	-	142000	24.13
1980	190	100.0	10286	20.0	.5	19.01	-	19.01	-	-	-	-	-	-	-	3	-	142000	36.64
1981	[1] 159	100.0	10512	19.8	.5	19.36	-	19.36	-	-	-	-	-	-	-	1	-	142000	43.64
1982	[1] 146	100.0	10831	14.7	.6	24.90	-	24.90	-	-	-	-	-	-	-	-	-	-	-
Cent Tele and Util Corp-Kan																			
1979	-	-	-	-	-	-	-	-	[2] 297	100.0	145000	.8	15.20	-	15.20	-	-	-	-
1980	-	-	-	-	-	-	-	-	[2] 43	100.0	145000	.7	27.85	-	27.85	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cent Vt Pub Serv Corp																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	141497	24.98
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	143219	34.15
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	143300	42.23
Chugach Elec Assoc																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cincinnati Gas and Elec Co																			
1979	5,486	84.5	11141	15.5	2.1	26.99	31.47	27.68	-	-	-	-	-	-	-	776	-	138089	21.76
1980	5,812	63.8	11335	15.3	1.7	32.05	29.55	31.64	-	-	-	-	-	-	-	594	-	138720	32.32

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Cent Illinois Pub Serv																				
1979	-	-	-	-	-	-	116,449	114,210	2,239	-	98	2	-	146,219	139,570	6,648	-	95	5	-
1980	-	-	-	-	-	-	110,553	110,170	383	-	100	0	-	146,905	145,285	1,620	-	99	1	-
1981	-	-	-	-	-	-	102,439	102,436	3	-	100	0	-	149,527	149,500	27	-	100	0	-
1982	-	-	-	-	-	-	110,133	110,027	106	-	100	0	-	175,342	174,551	791	-	100	0	-
Cent Kansas Power Co																				
1979	3,213	936	1.00	-	1.00	-	3,243	-	235	3,008	-	7	93	3,760	-	547	3,213	-	15	85
1980	1,080	936	1.29	-	1.29	-	1,010	-	-	1,010	-	-	100	1,391	-	-	1,391	-	-	100
1981	473	940	1.74	-	1.74	-	445	-	-	445	-	-	100	822	-	-	822	-	-	100
1982	124	937	2.20	-	2.20	-	116	-	-	116	-	-	100	273	-	-	273	-	-	100
Cent Louisiana Elec																				
1979	62,819	1046	2.39	2.25	2.39	3.3	65,711	-	-	65,711	-	-	100	149,973	-	-	149,973	-	-	100
1980	59,880	1045	2.91	2.67	2.91	3.0	64,034	-	1,470	62,564	-	2	98	180,251	-	6,239	174,012	-	3	97
1981	53,411	1040	3.68	3.45	3.66	7.5	59,446	3,347	571	55,529	6	1	93	205,741	6,963	3,239	195,539	3	2	95
1982	42,996	1044	4.02	3.62	4.00	4.1	53,707	8,838	-	44,869	16	-	84	191,869	19,860	-	172,008	10	-	90
Cent Maine Power																				
1979	-	-	-	-	-	-	15,182	-	15,182	-	-	100	-	43,727	-	43,727	-	-	100	-
1980	-	-	-	-	-	-	20,556	-	20,556	-	-	100	-	90,777	-	90,777	-	-	100	-
1981	-	-	-	-	-	-	23,298	-	23,298	-	-	100	-	124,230	-	124,230	-	-	100	-
1982	-	-	-	-	-	-	18,681	-	18,681	-	-	100	-	91,006	-	91,006	-	-	100	-
Cent Neb Pub Pwr and Ir Dept																				
1979	5,106	933	1.33	-	1.33	-	5,982	-	1,217	4,765	-	20	80	9,550	-	2,746	6,805	-	29	71
1980	5,023	939	1.70	-	1.70	-	5,118	-	399	4,719	-	8	92	9,864	-	1,320	8,544	-	13	87
1981	1,432	924	2.21	-	2.21	-	1,324	-	-	1,324	-	-	100	3,172	-	-	3,172	-	-	100
1982	192	915	2.48	-	2.48	-	176	-	-	176	-	-	100	476	-	-	476	-	-	100
Cent Operating Co (AEP)																				
1979	-	-	-	-	-	-	50,120	50,120	-	-	100	-	-	78,462	78,462	-	-	100	-	-
1980	-	-	-	-	-	-	46,405	46,405	-	-	100	-	-	73,411	73,411	-	-	100	-	-
1981	-	-	-	-	-	-	38,479	38,479	-	-	100	-	-	66,187	66,187	-	-	100	-	-
1982	-	-	-	-	-	-	41,525	41,525	-	-	100	-	-	79,778	79,778	-	-	100	-	-
Cent Power and Lt (CSW)																				
1979	124,829	1052	-	2.31	2.31	100.0	133,325	1,629	366	131,330	1	0	99	291,705	2,898	901	287,906	1	0	99
1980	122,087	1049	-	2.67	2.67	100.0	148,832	20,745	-	128,086	14	-	86	368,894	43,123	-	325,771	12	-	88
1981	115,458	1039	-	3.38	3.38	100.0	157,563	37,589	-	119,974	24	-	76	474,783	84,917	-	389,866	18	-	82
1982	107,319	1036	-	4.06	4.06	100.0	154,628	43,486	-	111,142	28	-	72	542,564	107,275	-	435,289	20	-	80
Cent Tele and Util Corp-Col																				
1979	2,058	851	1.58	-	1.58	-	5,476	3,539	186	1,751	65	3	32	6,767	2,762	760	3,246	41	11	48
1980	1,593	855	2.34	-	2.34	-	5,287	3,904	20	1,362	74	0	26	7,453	3,607	123	3,722	48	2	50
1981	1,368	886	2.89	-	2.89	-	4,564	3,347	5	1,212	73	0	27	7,080	3,083	39	3,958	44	1	56
1982	1,362	865	3.57	-	3.57	-	4,345	3,166	-	1,178	73	-	27	8,506	3,642	-	4,864	43	-	57
Cent Tele and Util Corp-Kan																				
1979	13,801	952	1.35	1.58	1.44	38.6	14,951	-	1,810	13,140	-	12	88	24,388	-	4,517	19,871	-	19	81
1980	12,783	955	1.99	1.79	1.84	73.8	12,466	-	265	12,202	-	2	98	24,787	-	1,211	23,576	-	5	95
1981	9,178	958	2.38	2.13	2.17	83.1	8,789	-	-	8,789	-	-	100	19,932	-	-	19,932	-	-	100
1982	7,811	972	3.49	2.35	2.45	91.3	7,596	-	-	7,596	-	-	100	19,141	-	-	19,141	-	-	100
Cent Vt Pub Serv Corp																				
1979	-	-	-	-	-	-	44	-	44	-	-	100	-	186	-	186	-	-	100	-
1980	-	-	-	-	-	-	30	-	30	-	-	100	-	168	-	168	-	-	100	-
1982	-	-	-	-	-	-	17	-	17	-	-	100	-	119	-	119	-	-	100	-
Chugach Elec Assoc																				
1979	14,152	1006	-	1.11	1.11	100.0	14,235	-	-	14,235	-	-	100	15,696	-	-	15,696	-	-	100
1980	20,120	1006	-	.37	.37	100.0	20,238	-	-	20,238	-	-	100	7,374	-	-	7,374	-	-	100
1981	20,899	1005	-	.41	.41	100.0	21,013	-	-	21,013	-	-	100	8,663	-	-	8,663	-	-	100
1982	23,149	1006	-	.42	.42	100.0	23,279	-	-	23,279	-	-	100	9,691	-	-	9,691	-	-	100
Cincinnati Gas and Elec Co																				
1979	227	1021	-	2.30	2.30	100.0	126,967	122,233	4,502	232	96	4	0	169,269	151,852	16,896	522	90	10	0
1980	635	1013	-	3.03	3.03	100.0	135,854	131,748	3,464	643	97	3	0	205,043	183,906	19,213	1,925	90	9	1

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Cincinnati Gas and Elec Co																			
1981	5,986	85.1	11192	14.7	2.0	34.55	35.76	34.73	-	-	-	-	-	-	-	276	-	139204	38.70
1982	6,089	89.5	11205	13.2	2.2	37.43	29.19	36.56	-	-	-	-	-	-	-	160	-	138906	39.30
Cleveland Elec Illum Co																			
1979	6,550	88.5	12040	11.6	2.9	34.12	41.04	34.91	1,416	-	151441	1.5	-	18.81	18.81	135	8.7	137597	23.72
1980	5,972	95.9	12257	10.5	2.9	37.93	38.42	37.95	380	-	151917	1.6	-	24.54	24.54	111	22.7	137972	34.88
1981	5,945	74.8	12204	10.6	2.7	43.76	41.55	43.21	200	-	152413	1.3	-	31.92	31.92	54	21.2	137927	43.89
1982	5,940	86.6	12319	10.2	2.9	45.84	38.55	44.86	115	-	150710	1.1	-	33.02	33.02	51	30.6	138057	41.66
Cleveland, City of																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	140000	22.95
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	140000	35.11
Coffeyville Mun Lt & Wtr Dept																			
1979	-	-	-	-	-	-	-	-	9	-	148000	.7	-	15.55	15.55	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Col Springs Dept Pub Utils																			
1979	1,234	100.0	10507	7.9	.5	22.66	-	22.66	13	-	146648	.5	-	22.50	22.50	21	61.4	139297	26.96
1980	1,306	85.6	10528	8.6	.5	25.09	21.94	24.64	-	-	-	-	-	-	-	24	-	138288	38.02
1981	1,304	100.0	10580	8.0	.4	27.24	-	27.24	-	-	-	-	-	-	-	8	-	140300	42.96
1982	1,452	100.0	10602	8.2	.4	31.75	-	31.75	-	-	-	-	-	-	-	15	-	140300	9.65
Colorado-Ute Elec Assn																			
1979	1,811	100.0	10716	10.4	.5	10.28	-	10.28	-	-	-	-	-	-	-	-	-	-	-
1980	3,717	100.0	10246	9.0	.5	13.27	-	13.27	-	-	-	-	-	-	-	5	-	137855	36.86
1981	3,557	100.0	10296	8.4	.4	13.83	-	13.83	-	-	-	-	-	-	-	48	-	136983	43.44
1982	3,659	100.0	10170	8.5	.4	14.91	-	14.91	-	-	-	-	-	-	-	18	-	136714	39.63
Columbia Water and Lt																			
1979	73	100.0	10898	12.0	4.0	26.86	-	26.86	-	-	-	-	-	-	-	-	-	-	-
1980	81	100.0	11041	11.7	3.9	29.68	-	29.68	-	-	-	-	-	-	-	-	-	-	-
1981	74	100.0	11009	11.1	3.7	32.84	-	32.84	-	-	-	-	-	-	-	-	-	-	-
1982	82	100.0	10912	11.4	3.9	35.11	-	35.11	-	-	-	-	-	-	-	-	-	-	-
Columbus and So Ohio Elec																			
1979	4,130	94.6	11064	14.0	4.3	24.16	18.96	23.88	-	-	-	-	-	-	-	158	-	135141	23.81
1980	4,846	85.8	11261	12.6	4.5	26.63	26.30	26.58	-	-	-	-	-	-	-	67	-	136589	34.09
1981	4,532	79.4	11208	13.0	4.5	27.54	28.72	27.78	-	-	-	-	-	-	-	-	-	-	-
1982	3,764	85.1	11474	11.8	4.0	30.53	36.80	31.46	-	-	-	-	-	-	-	-	-	-	-
Columbus Div of Electricity																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	138713	21.65
1982	4	100.0	13280	4.6	.7	47.49	-	47.49	-	-	-	-	-	-	-	-	-	-	-
Commonwealth Edison-Indiana																			
1979	1,423	100.0	9394	4.5	.4	33.40	-	33.40	-	-	-	-	-	-	-	-	-	-	-
1980	1,220	100.0	9525	4.3	.4	36.88	-	36.88	-	-	-	-	-	-	-	-	-	-	-
1981	966	100.0	9462	4.4	.5	40.89	-	40.89	-	-	-	-	-	-	-	-	-	-	-
1982	1,504	100.0	9605	4.2	.4	46.94	-	46.94	-	-	-	-	-	-	-	-	-	-	-
Commonwealth Edison																			
1979	15,937	100.0	9633	6.8	1.1	32.14	-	32.14	11,248	100.0	147649	.7	24.09	-	24.09	[3] 1,268	10.1	137718	26.91
1980	16,845	100.0	9635	7.6	1.0	36.67	-	36.67	12,520	100.0	147740	.7	35.02	-	35.02	[3] 579	4.4	152546	41.65
1981	14,272	100.0	9657	7.7	.9	43.98	-	43.98	10,277	100.0	149242	.7	46.08	-	46.08	[3] 349	3.3	138265	45.81
1982	12,950	100.0	9688	7.2	1.2	48.03	-	48.03	7,894	100.0	151237	.7	44.97	-	44.97	[3] 361	4.4	137948	43.76
Commonwealth Elec Co (NEGA)																			
1979	-	-	-	-	-	-	-	-	132	62.1	148642	1.0	20.60	22.60	21.36	-	-	-	-
1980	-	-	-	-	-	-	-	-	142	16.2	149404	.9	34.20	27.47	28.56	-	-	-	-
1981	-	-	-	-	-	-	-	-	86	100.0	148769	1.0	33.18	-	33.18	-	-	-	-
1982	-	-	-	-	-	-	-	-	84	77.4	149848	.9	29.65	28.77	29.45	-	-	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Cincinnati Gas and Elec Co																				
1981	186	1010	3.70	-	3.70	-	135,793	133,995	1,611	188	99	1	0	219,257	207,909	10,662	687	95	5	0
1982	147	1030	4.50	-	4.50	-	137,550	136,465	934	151	99	1	0	229,576	222,624	6,291	660	97	3	0
Cleveland Elec Illum Co																				
1979	-	-	-	-	-	-	167,507	157,724	9,783	-	94	6	-	258,518	228,690	29,828	-	88	12	-
1980	-	-	-	-	-	-	149,470	146,403	3,067	-	98	2	-	239,868	226,669	13,198	-	94	6	-
1981	-	-	-	-	-	-	146,693	145,101	1,592	-	99	1	-	265,593	256,848	8,745	-	97	3	-
1982	-	-	-	-	-	-	147,368	146,341	1,027	-	99	1	-	272,421	266,483	5,939	-	98	2	-
Cleveland, City of																				
1979	-	-	-	-	-	-	30	-	30	-	-	100	-	117	-	117	-	-	100	-
1980	-	-	-	-	-	-	22	-	22	-	-	100	-	129	-	129	-	-	100	-
Coffeyville Mun Lt & Wtr Dept																				
1979	1,563	1000	1.28	-	1.28	-	1,620	-	58	1,563	-	4	96	2,143	-	144	1,999	-	7	93
1980	1,569	1000	1.94	-	1.94	-	1,569	-	-	1,569	-	-	100	3,039	-	-	3,039	-	-	100
1981	1,403	1000	2.45	-	2.45	-	1,403	-	-	1,403	-	-	100	3,435	-	-	3,435	-	-	100
1982	387	1000	2.70	-	2.70	-	387	-	-	387	-	-	100	1,043	-	-	1,043	-	-	100
Col Springs Dept Pub Utils																				
1979	2,288	987	1.95	1.95	1.95	18.4	28,395	25,929	207	2,258	91	1	8	33,299	27,960	876	4,463	84	3	13
1980	454	991	2.86	2.80	2.83	45.6	28,084	27,496	136	450	98	0	2	34,360	32,171	904	1,285	94	3	4
1981	161	1004	3.49	3.47	3.48	31.4	27,811	27,604	45	162	99	0	1	36,421	35,529	331	562	98	1	2
1982	218	990	4.61	4.51	4.53	78.9	31,091	30,787	88	216	99	0	1	47,235	46,100	148	987	98	0	2
Colorado-Ute Elec Assn																				
1979	-	-	-	-	-	-	38,814	38,814	-	-	100	-	-	18,623	18,623	-	-	100	-	-
1980	-	-	-	-	-	-	76,204	76,173	31	-	100	0	-	49,513	49,314	199	-	100	0	-
1981	-	-	-	-	-	-	73,530	73,251	279	-	100	0	-	51,289	49,184	2,106	-	96	4	-
1982	-	-	-	-	-	-	74,524	74,421	103	-	100	0	-	55,266	54,554	712	-	99	1	-
Columbia Water and Lt																				
1979	345	1000	1.98	-	1.98	-	1,932	1,587	-	345	82	-	18	2,640	1,956	-	684	74	-	26
1980	558	1000	2.40	-	2.40	-	2,354	1,796	-	558	76	-	24	3,756	2,413	-	1,343	64	-	36
1981	245	1000	2.80	-	2.80	-	1,868	1,623	-	245	87	-	13	3,106	2,421	-	685	78	-	22
1982	85	1000	4.53	-	4.53	-	1,867	1,782	-	85	95	-	5	3,252	2,867	-	385	88	-	12
Columbus and So Ohio Elec																				
1979	373	1031	2.47	-	2.47	-	92,665	91,384	897	385	99	1	0	103,300	98,814	3,763	923	95	4	1
1980	992	1030	2.98	-	2.98	-	110,540	109,134	383	1,022	99	0	1	134,051	128,813	2,279	2,960	96	2	2
1981	373	1030	3.21	-	3.21	-	101,968	101,584	-	384	100	-	0	127,087	125,890	-	1,196	99	-	1
1982	180	1030	4.46	-	4.46	-	86,568	86,382	-	185	100	-	0	119,231	118,430	-	801	99	-	1
Columbus Div of Electricity																				
1979	-	-	-	-	-	-	4	-	4	-	-	100	-	15	-	15	-	-	100	-
1982	-	-	-	-	-	-	106	106	-	-	100	-	-	190	190	-	-	100	-	-
Commonwealth Edison-Indiana																				
1979	179	1023	-	2.26	2.26	100.0	26,918	26,735	-	183	99	-	1	47,934	47,529	-	405	99	-	1
1980	139	1023	-	2.67	2.67	100.0	23,383	23,241	-	142	99	-	1	45,364	44,993	-	371	99	-	1
1981	154	1024	-	3.18	3.18	100.0	18,439	18,281	-	158	99	-	1	39,991	39,502	-	489	99	-	1
1982	135	1027	-	3.57	3.57	100.0	29,032	28,893	-	139	100	-	0	71,081	70,599	-	482	99	-	1
Commonwealth Edison																				
1979	21,812	1019	-	2.86	2.86	100.0	406,359	307,037	77,089	22,233	76	19	5	879,706	512,149	305,128	62,428	58	35	7
1980	10,454	1026	2.49	3.63	3.63	99.7	416,733	324,604	81,398	10,731	78	20	3	1,118,219	617,783	462,511	37,925	55	41	3
1981	8,248	1026	2.90	4.74	4.72	99.1	350,547	275,641	66,445	8,461	79	19	2	1,156,255	627,748	489,566	38,941	54	42	3
1982	6,943	1026	3.17	4.88	4.88	100.0	310,260	250,905	52,233	7,122	81	17	2	1,026,589	621,916	370,792	33,881	61	36	3
Commonwealth Elec Co (NEGA)																				
1979	66	1000	2.57	-	2.57	-	890	-	824	66	-	93	7	2,989	-	2,819	169	-	94	6
1980	501	1000	3.46	-	3.46	-	1,392	-	891	501	-	64	36	5,801	-	4,055	1,746	-	70	30
1981	1,005	1000	4.25	-	4.25	-	1,540	-	535	1,005	-	35	65	7,115	-	2,844	4,271	-	40	60
1982	923	1000	4.05	-	4.05	-	1,452	-	529	923	-	36	64	6,215	-	2,474	3,741	-	40	60

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Community Pub Serv-NM																			
1979	-	-	-	-	-	-	-	-	[f] 82	100.0	145000	1.0	16.34	-	16.34	-	-	-	-
1980	-	-	-	-	-	-	-	-	[f] 88	100.0	145000	1.0	23.32	-	23.32	-	-	-	-
1981	-	-	-	-	-	-	-	-	[f] 16	100.0	145000	1.0	35.67	-	35.67	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut Lt & Pwr Co(NU)																			
1979	-	-	-	-	-	-	-	-	6,243	100.0	146769	.4	21.11	5.77	21.11	[f] 104	1.6	136274	22.83
1980	-	-	-	-	-	-	-	-	8,069	100.0	146865	.4	28.59	-	28.59	15	.2	136325	34.57
1981	-	-	-	-	-	-	-	-	8,501	100.0	148094	.5	33.82	-	33.82	6	.1	136675	43.89
1982	-	-	-	-	-	-	-	-	7,404	100.0	149334	.9	29.00	-	29.00	6	.1	137994	42.09
Consolidated Edison Co of NY																			
1979	-	-	-	-	-	-	-	-	16,142	89.3	145801	.3	21.10	16.43	20.60	[f] 725	3.8	136341	24.48
1980	-	-	-	-	-	-	-	-	16,764	100.0	146295	.5	30.19	-	30.19	140	.8	137570	29.99
1981	-	-	-	-	-	-	-	-	18,387	100.0	147058	.7	33.90	-	33.90	274	1.5	137846	39.90
1982	-	-	-	-	-	-	-	-	14,834	100.0	146660	.5	31.45	-	31.45	69	.5	131628	37.46
Consumers Power																			
1979	6,393	75.2	11727	11.2	2.1	32.82	32.31	32.69	7,837	96.1	144802	.6	19.22	16.84	19.12	[f] 7	.1	134000	30.24
1980	5,721	67.8	12013	9.9	1.6	40.95	36.61	39.55	5,827	94.2	143325	.6	25.45	22.11	25.26	10	.2	139000	34.77
1981	6,693	62.4	12169	9.8	1.3	47.66	42.57	45.75	4,024	100.0	143749	.7	35.04	-	35.04	34	.8	138876	40.72
1982	6,254	61.4	12163	9.5	1.4	51.49	44.55	50.20	65	100.0	138000	.7	32.52	-	32.52	46	41.3	139000	40.25
Coop Power Assoc																			
1979	1,148	100.0	6429	8.3	.6	9.57	-	9.57	-	-	-	-	-	-	-	1	-	139000	4.51
1980	3,013	100.0	6349	8.6	.6	9.23	-	9.23	-	-	-	-	-	-	-	-	-	-	-
1981	3,683	100.0	6471	8.4	.6	11.69	-	11.69	-	-	-	-	-	-	-	-	-	-	-
1982	5,219	100.0	6485	8.8	.5	11.75	-	11.75	-	-	-	-	-	-	-	-	-	-	-
Corn Belt Power Coop																			
1979	199	45.1	11929	13.3	3.4	38.00	36.09	36.95	-	-	-	-	-	-	-	-	-	-	-
1980	2	-	12235	11.8	3.4	-	41.72	41.72	-	-	-	-	-	-	-	-	-	-	-
Crawfordsville Elec Lt & Pwr																			
1979	3	-	11163	12.3	3.9	-	24.57	24.57	-	-	-	-	-	-	-	-	-	-	-
Dairyland Power Coop																			
1979	[f] 1,768	98.2	10037	10.0	2.4	25.07	22.28	25.02	-	-	-	-	-	-	-	-	-	-	-
1980	2,119	100.0	9251	8.4	1.6	25.90	-	25.90	-	-	-	-	-	-	-	-	-	-	-
1981	2,143	100.0	9123	8.0	1.3	27.79	-	27.79	-	-	-	-	-	-	-	-	-	-	-
1982	2,135	100.0	9351	8.3	1.6	31.04	-	31.04	-	-	-	-	-	-	-	-	-	-	-
Dallas Pwr & Lt (TU)																			
1979	-	-	-	-	-	-	-	-	[f] 128	100.0	148142	.3	17.37	-	17.37	2	1.2	137524	32.18
1980	-	-	-	-	-	-	-	-	[f] 64	100.0	148142	.5	31.68	-	31.68	-	-	-	-
1981	-	-	-	-	-	-	-	-	[f] 98	100.0	148142	.6	34.65	-	34.65	-	-	-	-
1982	-	-	-	-	-	-	-	-	[f] 183	55.6	148142	.6	34.39	32.93	33.74	-	-	-	-
Danville Water Gas and Elec																			
1979	18	100.0	13200	8.0	1.0	34.98	-	34.98	-	-	-	-	-	-	-	0	-	134000	17.01
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dayton Power and Lt Co																			
1979	7,321	65.6	11360	14.8	1.1	33.03	28.28	31.40	-	-	-	-	-	-	-	238	-	136144	23.66
1980	7,214	68.7	11610	14.4	1.0	38.91	30.95	36.42	-	-	-	-	-	-	-	270	-	137605	32.96
1981	5,268	77.5	11559	14.8	1.1	42.38	36.33	41.02	-	-	-	-	-	-	-	71	-	136614	41.68
1982	6,903	67.6	11489	14.2	1.1	44.39	31.21	40.12	-	-	-	-	-	-	-	136	-	136774	40.65
Deepwater Operating Co (ACE)																			
1979	-	-	-	-	-	-	-	-	1,210	100.0	148092	1.2	18.42	-	18.42	[f] 3	.2	136036	21.22
1980	52	-	13409	5.2	.7	-	63.15	63.15	849	100.0	147514	.9	25.96	-	25.96	-	-	-	-
1981	130	46.5	13320	5.1	.8	62.03	62.97	62.53	756	93.5	148081	.9	30.92	33.56	31.09	-	-	-	-
1982	82	86.8	13265	6.5	.8	61.65	50.68	60.38	662	100.0	148468	.9	29.47	-	29.47	-	-	-	-
Delmarva Power and Lt																			
1979	[f] 1,046	46.1	12432	11.9	1.8	36.14	34.26	35.13	7,430	97.8	147887	1.1	20.00	21.42	20.03	194	2.5	138475	23.32
1980	[f] 1,103	52.8	12495	11.6	1.6	46.33	37.98	42.39	5,999	94.3	149236	1.1	26.86	25.11	26.76	239	3.8	138329	35.24

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Community Pub Serv-NM																				
1979	788	1057	-	2.05	2.05	100.0	1,332	-	499	833	-	37	63	2,952	-	1,340	1,612	-	45	55
1980	1,303	1059	-	2.50	2.50	100.0	1,916	-	536	1,380	-	28	72	5,304	-	2,052	3,252	-	39	61
1981	1,160	1050	-	2.73	2.73	100.0	1,318	-	99	1,218	-	8	92	3,746	-	581	3,165	-	16	84
1982	492	1051	-	3.24	3.24	100.0	517	-	-	517	-	-	100	1,593	-	-	1,593	-	-	100
Connecticut Lt & Pwr Co(NU)																				
1979	-	-	-	-	-	-	39,080	-	39,080	-	-	100	-	134,137	-	134,137	-	-	100	-
1980	-	-	-	-	-	-	49,658	-	49,658	-	-	100	-	231,180	-	231,180	-	-	100	-
1981	-	-	-	-	-	-	40,470	-	40,470	-	-	100	-	220,115	-	220,115	-	-	100	-
1982	-	-	-	-	-	-	46,475	-	46,475	-	-	100	-	214,969	-	214,969	-	-	100	-
Consolidated Edison Co of NY																				
1979	47,868	1031	2.31	-	2.31	-	164,607	-	115,244	49,363	-	70	30	502,104	-	391,431	110,673	-	78	22
1980	77,151	1039	2.59	3.07	2.72	27.0	183,958	-	103,819	80,140	-	56	44	720,429	-	510,286	210,142	-	71	29
1981	69,097	1033	-	3.62	3.62	100.0	186,523	-	115,153	71,371	-	62	38	884,436	-	634,232	250,204	-	72	28
1982	70,364	1031	-	3.86	3.86	100.0	164,266	-	91,752	72,514	-	56	44	740,967	-	469,078	271,889	-	63	37
Consumers Power																				
1979	4,082	1000	2.27	2.44	2.40	76.0	201,716	149,930	47,704	4,082	74	24	2	368,868	208,983	150,093	9,793	57	41	3
1980	6,169	1000	3.13	2.58	2.64	88.9	178,760	137,457	35,134	6,169	77	20	3	390,091	226,300	147,523	16,267	58	38	4
1981	4,759	1000	3.62	3.21	3.24	92.9	192,163	162,911	24,493	4,759	85	13	2	463,997	306,191	142,375	15,431	66	31	3
1982	1,616	1000	3.73	3.74	3.74	86.6	154,398	152,141	641	1,616	99	0	1	323,947	313,961	3,939	6,047	97	1	2
Coop Power Assoc																				
1979	-	-	-	-	-	-	14,762	14,757	5	-	100	0	-	10,992	10,988	4	-	100	0	-
1980	-	-	-	-	-	-	38,252	38,252	-	-	100	-	-	27,807	27,807	-	-	100	-	-
1981	-	-	-	-	-	-	47,668	47,668	-	-	100	-	-	43,062	43,062	-	-	100	-	-
1982	-	-	-	-	-	-	67,689	67,689	-	-	100	-	-	61,313	61,313	-	-	100	-	-
Corn Belt Power Coop																				
1979	-	-	-	-	-	-	4,753	4,753	-	-	100	-	-	7,361	7,361	-	-	100	-	-
1980	-	-	-	-	-	-	44	44	-	-	100	-	-	75	75	-	-	100	-	-
Crawfordsville Elec Lt & Pwr																				
1979	-	-	-	-	-	-	67	67	-	-	100	-	-	74	74	-	-	100	-	-
Dairyland Power Coop																				
1979	-	-	-	-	-	-	35,502	35,502	-	-	100	-	-	44,249	44,249	-	-	100	-	-
1980	-	-	-	-	-	-	39,200	39,200	-	-	100	-	-	54,875	54,875	-	-	100	-	-
1981	-	-	-	-	-	-	39,094	39,094	-	-	100	-	-	59,542	59,542	-	-	100	-	-
1982	-	-	-	-	-	-	39,928	39,928	-	-	100	-	-	66,270	66,270	-	-	100	-	-
Dallas Pwr & Lt (TU)																				
1979	61,348	1037	-	2.11	2.11	100.0	64,422	-	802	63,620	-	1	99	131,997	-	2,265	129,731	-	2	98
1980	66,419	1036	-	2.45	2.45	100.0	69,187	-	399	68,788	-	1	99	164,659	-	2,030	162,629	-	1	99
1981	64,676	1023	-	3.12	3.12	100.0	68,766	-	610	68,156	-	1	99	205,055	-	3,395	201,660	-	2	98
1982	65,064	1032	-	3.86	3.86	100.0	68,273	-	1,136	67,137	-	2	98	257,159	-	6,161	250,998	-	2	98
Danville Water Gas and Elec																				
1979	522	1040	2.24	-	2.24	-	1,019	475	1	543	47	0	53	1,805	629	5	1,171	35	0	65
1980	2	1040	2.37	-	2.37	-	2	-	-	2	-	-	100	4	-	-	4	-	-	100
Dayton Power and Lt Co																				
1979	302	1010	2.59	-	2.59	-	167,999	166,335	1,359	305	99	1	0	236,265	229,860	5,623	782	97	2	0
1980	1,352	1010	3.02	-	3.02	-	170,439	167,511	1,562	1,366	98	1	1	275,747	262,759	8,909	4,079	95	3	1
1981	515	1010	3.50	-	3.50	-	122,726	121,799	407	520	99	0	0	220,886	216,123	2,959	1,803	98	1	1
1982	295	1010	4.68	-	4.68	-	159,702	158,626	778	298	99	0	0	283,825	276,938	5,508	1,379	98	2	0
Deepwater Operating Co (ACE)																				
1979	2,460	1030	3.10	-	3.10	-	10,079	-	7,545	2,534	-	75	25	29,991	-	22,355	7,636	-	75	25
1980	3,200	1035	3.79	-	3.79	-	9,967	1,396	5,260	3,311	14	53	33	37,453	3,268	22,042	12,124	9	59	32
1981	2,683	1036	5.03	-	5.03	-	10,937	3,456	4,702	2,779	32	43	25	45,122	6,113	23,506	13,501	16	52	30
1982	1,949	1034	4.55	-	4.55	-	8,330	2,185	4,131	2,014	26	50	24	33,366	4,974	19,524	8,868	15	59	27
Delmarva Power and Lt																				
1979	[4] 2,968	1047	2.88	-	2.88	-	76,399	26,011	47,280	3,108	34	62	4	196,846	36,751	153,343	8,552	19	77	4
1980	[4] 4,703	1044	3.58	-	3.58	-	71,468	27,573	38,984	4,910	39	55	7	232,569	46,768	168,942	16,859	20	73	7

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Delmarva Power and Lt																			
1981	1,528	53.5	12481	11.6	1.4	51.63	49.66	50.71	4,347	91.3	149333	1.0	32.83	28.46	32.45	118	2.7	138594	43.34
1982	1,930	70.1	12609	10.7	1.3	55.38	50.76	54.00	3,173	92.8	150917	1.1	29.66	28.31	29.56	142	4.3	138962	41.35
Denton, City of																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	274	-	139852	38.52
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-	139860	37.08
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Detroit Edison Co																			
1979	13,994	85.4	11937	9.7	1.6	32.92	41.93	34.24	4,783	92.5	147790	.7	20.13	16.17	19.83	1,133	19.2	137159	23.20
1980	13,241	86.1	12079	8.2	1.3	34.14	44.45	35.58	2,724	97.2	148450	.7	24.98	24.70	24.97	483	15.1	137863	35.04
1981	12,836	83.3	11649	8.0	1.3	34.61	50.07	37.19	1,382	4.0	147951	.8	35.03	33.79	33.84	527	27.6	137910	43.32
1982	12,312	96.0	11929	8.5	1.5	42.87	53.75	43.31	1,199	27.9	147305	.8	30.97	31.92	31.65	320	21.1	137847	40.93
Detroit Pub Ltng Comm																			
1979	-	-	-	-	-	-	-	-	856	100.0	148283	.9	19.01	-	19.01	31	3.5	139256	34.81
1980	-	-	-	-	-	-	-	-	466	100.0	153260	1.0	23.05	-	23.05	19	3.9	138972	37.75
1981	-	-	-	-	-	-	-	-	217	75.0	150824	1.0	32.05	24.74	30.22	18	7.8	138493	41.01
1982	-	-	-	-	-	-	-	-	294	-	149531	1.0	-	25.43	25.43	16	5.2	140600	40.27
Dover, City of																			
1979	-	-	-	-	-	-	-	-	684	100.0	149898	2.1	18.22	-	18.22	2	.3	137626	22.01
1980	-	-	-	-	-	-	-	-	632	100.0	150280	1.9	25.04	-	25.04	-	-	-	-
1981	-	-	-	-	-	-	-	-	942	100.0	149910	2.5	30.83	-	30.83	-	-	-	-
1982	-	-	-	-	-	-	-	-	669	100.0	149709	2.4	26.48	-	26.48	-	-	-	-
Duke Power																			
1979	14,794	87.6	12130	12.1	1.0	36.57	31.23	35.90	-	-	-	-	-	-	-	211	-	137963	23.11
1980	15,496	84.1	12203	11.6	1.0	39.09	34.25	38.32	-	-	-	-	-	-	-	223	-	137912	34.47
1981	15,867	80.5	12166	11.5	1.0	41.67	43.36	42.00	-	-	-	-	-	-	-	288	-	138076	42.84
1982	15,957	87.9	12226	11.3	1.0	46.21	37.18	45.12	-	-	-	-	-	-	-	141	-	138071	40.91
Duquesne Lt																			
1979	3,820	44.6	11873	15.3	2.0	27.19	24.69	25.80	-	-	-	-	-	-	-	446	-	137686	24.15
1980	3,818	64.4	11937	14.1	2.1	32.50	25.92	30.16	-	-	-	-	-	-	-	425	-	136964	34.01
1981	2,851	93.9	12064	13.4	2.0	34.54	31.42	34.35	-	-	-	-	-	-	-	158	-	136264	42.52
1982	3,046	100.0	12122	12.6	1.9	37.54	-	37.54	-	-	-	-	-	-	-	72	-	136674	41.69
East Kentucky Rural Elec Coop																			
1979	1,649	65.9	11934	10.8	1.3	31.24	24.66	29.00	-	-	-	-	-	-	-	-	-	-	-
1980	1,921	86.9	12036	10.8	1.2	35.55	30.98	34.96	-	-	-	-	-	-	-	-	-	-	-
1981	2,077	79.3	12015	11.4	1.1	35.86	35.44	35.77	-	-	-	-	-	-	-	-	-	-	-
1982	1,900	85.7	11984	10.8	1.2	38.32	25.57	36.50	-	-	-	-	-	-	-	-	-	-	-
Eastern Iowa Lt and Power																			
1979	111	-	10654	8.6	2.7	-	27.04	27.04	-	-	-	-	-	-	-	-	-	-	-
1980	124	12.5	10793	9.0	2.8	28.33	28.65	28.61	-	-	-	-	-	-	-	-	-	-	-
1981	75	83.9	10805	10.3	2.7	32.19	29.45	31.74	-	-	-	-	-	-	-	-	-	-	-
1982	148	100.0	11171	10.0	2.6	32.37	-	32.37	-	-	-	-	-	-	-	-	-	-	-
Easton Util Comm																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	137730	22.56
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	-	136884	32.23
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	136269	39.49
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	139017	41.60
El Paso Elec																			
1979	-	-	-	-	-	-	-	-	[1] 458	87.1	143425	.6	21.18	15.85	20.49	17	3.5	139756	23.93
1980	-	-	-	-	-	-	-	-	[1] 193	55.5	141999	.6	31.56	25.75	28.97	-	-	-	-
1981	-	-	-	-	-	-	-	-	[1] 70	67.6	143935	.9	39.01	20.49	33.01	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Elec Energy																			
1979	3,084	56.1	11577	10.0	2.1	29.61	33.16	31.17	-	-	-	-	-	-	-	20	-	138280	28.51
1980	2,534	78.1	11789	8.9	2.0	34.17	32.32	33.77	-	-	-	-	-	-	-	17	-	136672	34.47
1981	2,226	93.4	11740	8.8	1.9	37.14	33.82	36.92	-	-	-	-	-	-	-	18	-	136840	43.14
1982	2,241	94.6	11866	8.8	1.9	39.61	38.24	39.54	-	-	-	-	-	-	-	16	-	137888	42.70

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Delmarva Power and Lt																				
1981	[4] 3,564	1037	4.22	-	4.22	-	69,795	38,145	27,956	3,694	55	40	5	238,749	77,494	146,206	15,049	32	61	6
1982	[4] 4,078	1033	4.20	-	4.20	-	73,825	48,673	20,939	4,213	66	28	6	221,024	104,233	99,653	17,138	47	45	8
Denton, City of																				
1979	3,134	1068	2.19	-	2.19	-	4,954	-	1,607	3,348	-	32	68	17,413	-	10,539	6,874	-	61	39
1980	4,234	1063	2.51	-	2.51	-	4,726	-	226	4,500	-	5	95	12,058	-	1,425	10,633	-	12	88
1981	4,960	1056	3.20	-	3.20	-	5,239	-	-	5,239	-	-	100	15,884	-	-	15,884	-	-	100
1982	1,713	1055	4.18	-	4.18	-	1,808	-	-	1,808	-	-	100	7,154	-	-	7,154	-	-	100
Detroit Edison Co																				
1979	25,703	569	.12	2.49	1.40	54.0	385,440	334,084	38,218	15,141	87	9	4	636,228	479,154	121,137	35,937	75	19	6
1980	14,706	601	.14	2.91	1.67	55.4	348,483	319,864	19,781	8,839	92	6	3	580,613	471,086	84,936	24,591	81	15	4
1981	[4] 9,798	479	.14	3.59	1.60	42.3	315,394	299,057	11,641	4,696	95	4	1	562,620	477,355	69,604	15,660	85	12	3
1982	[4] 4,001	511	.14	3.39	1.97	56.5	305,051	293,733	9,274	2,044	96	3	1	592,198	533,228	51,070	7,901	90	9	1
Detroit Pub Ltng Comm																				
1979	-	-	-	-	-	-	5,510	-	5,510	-	-	100	-	17,342	-	17,342	-	-	100	-
1980	-	-	-	-	-	-	3,112	-	3,112	-	-	100	-	11,465	-	11,465	-	-	100	-
1981	-	-	-	-	-	-	1,483	-	1,483	-	-	100	-	7,322	-	7,322	-	-	100	-
1982	-	-	-	-	-	-	1,939	-	1,939	-	-	100	-	8,115	-	8,115	-	-	100	-
Dover, City of																				
1979	1,158	1032	3.02	2.76	2.94	31.3	5,516	-	4,321	1,195	-	78	22	15,914	-	12,515	3,400	-	79	21
1980	1,682	1036	3.81	3.66	3.71	66.7	5,728	-	3,987	1,742	-	70	30	22,047	-	15,814	6,233	-	72	28
1981	1,162	1035	-	4.72	4.72	100.0	7,134	-	5,931	1,203	-	83	17	34,522	-	29,039	5,483	-	84	16
1982	540	1032	4.60	4.33	4.34	95.6	4,763	-	4,205	558	-	88	12	20,056	-	17,709	2,347	-	88	12
Duke Power																				
1979	149	1030	3.45	-	3.45	-	360,284	358,909	1,221	153	100	0	0	536,558	531,175	4,870	513	99	1	0
1980	2,899	1033	2.94	2.84	2.94	.1	382,490	378,204	1,291	2,994	99	0	1	610,077	593,871	7,685	8,521	97	1	1
1981	1,641	1029	4.00	-	4.00	-	389,423	386,078	1,657	1,688	99	0	0	685,176	666,369	12,237	6,570	97	2	1
1982	107	1033	4.34	-	4.34	-	391,127	390,202	815	110	100	0	0	726,134	719,919	5,752	462	99	1	0
Duquesne Lt																				
1979	-	-	-	-	-	-	93,295	90,713	2,582	-	97	3	-	109,363	98,579	10,784	-	90	10	-
1980	-	-	-	-	-	-	93,598	91,154	2,444	-	97	3	-	129,597	115,144	14,453	-	89	11	-
1981	-	-	-	-	-	-	69,704	68,798	906	-	99	1	-	104,657	97,928	6,730	-	94	6	-
1982	-	-	-	-	-	-	74,263	73,849	414	-	99	1	-	117,346	114,340	3,006	-	97	3	-
East Kentucky Rural Elec Coop																				
1979	-	-	-	-	-	-	39,354	39,354	-	-	100	-	-	47,814	47,814	-	-	100	-	-
1980	-	-	-	-	-	-	46,241	46,241	-	-	100	-	-	67,150	67,150	-	-	100	-	-
1981	-	-	-	-	-	-	49,912	49,912	-	-	100	-	-	74,296	74,296	-	-	100	-	-
1982	-	-	-	-	-	-	45,539	45,539	-	-	100	-	-	69,342	69,342	-	-	100	-	-
Eastern Iowa Lt and Power																				
1979	7	1027	2.03	-	2.03	-	2,363	2,355	-	8	100	-	0	3,004	2,989	-	15	99	-	1
1980	9	1026	2.59	-	2.59	-	2,685	2,675	-	10	100	-	0	3,570	3,546	-	24	99	-	1
1981	10	1023	3.04	-	3.04	-	1,622	1,612	-	11	99	-	1	2,399	2,367	-	31	99	-	1
1982	12	1036	3.58	-	3.58	-	3,328	3,315	-	12	100	-	0	4,846	4,804	-	42	99	-	1
Easton Util Comm																				
1979	356	1032	2.71	2.29	2.61	25.4	666	-	299	367	-	45	55	2,093	-	1,166	927	-	56	44
1980	444	1035	3.63	-	3.63	-	740	-	281	459	-	38	62	3,184	-	1,574	1,609	-	49	51
1981	236	1035	4.63	-	4.63	-	436	-	192	245	-	44	56	2,416	-	1,323	1,094	-	55	45
1982	318	1033	4.60	-	4.60	-	451	-	122	329	-	27	73	2,337	-	872	1,465	-	37	63
El Paso Elec																				
1979	24,512	1026	1.94	2.25	2.17	75.7	27,996	-	2,857	25,138	-	10	90	63,050	-	9,786	53,264	-	16	84
1980	32,729	1028	2.36	2.71	2.58	63.9	34,795	-	1,151	33,644	-	3	97	90,142	-	5,593	84,549	-	6	94
1981	34,324	1030	2.72	3.27	3.06	64.3	35,765	-	426	35,340	-	1	99	107,903	-	2,324	105,579	-	2	98
1982	24,799	1028	3.87	3.70	3.77	59.9	25,496	-	-	25,496	-	-	100	93,471	-	-	93,471	-	-	100
Elec Energy																				
1979	-	-	-	-	-	-	71,522	71,406	116	-	100	0	-	96,685	96,116	569	-	99	1	-
1980	-	-	-	-	-	-	59,840	59,745	96	-	100	0	-	86,136	85,561	576	-	99	1	-
1981	-	-	-	-	-	-	52,370	52,265	105	-	100	0	-	82,974	82,184	789	-	99	1	-
1982	-	-	-	-	-	-	53,285	53,193	92	-	100	0	-	89,298	88,619	679	-	99	1	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Empire Dist Elec																			
1979	[1] 863	78.8	11015	19.2	4.1	18.93	26.48	20.69	48	-	150000	1.3	-	15.09	15.09	-	-	-	-
1980	[1] 869	88.9	10995	20.1	4.3	24.03	27.15	24.37	-	-	-	-	-	-	-	-	-	-	-
1981	747	85.4	11293	19.1	4.5	26.83	29.81	27.26	-	-	-	-	-	-	-	-	-	-	-
1982	[1] 748	72.6	11084	20.4	5.1	23.72	33.49	26.40	-	-	-	-	-	-	-	-	-	-	-
Farmington Elec Utils																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fitchburg Gas and Elec																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	137569	29.49
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	138354	30.15
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	138070	42.35
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	134622	44.19
Florida Power and Lt																			
1979	-	-	-	-	-	-	-	-	37,995	80.2	148668	1.4	18.33	18.77	18.41	1,208	3.1	137533	36.95
1980	51	100.0	13769	7.2	.7	56.74	-	56.74	38,522	77.4	149335	1.4	24.89	21.69	24.17	879	2.2	138493	33.39
1981	44	100.0	13769	7.2	.7	58.39	-	58.39	43,610	88.5	149150	1.3	30.33	29.32	30.21	586	1.3	139360	41.49
1982	-	-	-	-	-	-	-	-	31,801	92.6	150009	1.6	27.41	25.17	27.24	-	-	-	-
Florida Power Corp																			
1979	1,559	100.0	11892	9.5	1.7	46.86	-	46.86	12,710	99.9	148929	1.8	17.33	13.30	17.32	1,477	10.4	137624	22.95
1980	1,920	100.0	11760	9.8	1.9	48.35	-	48.35	13,605	99.1	150541	2.2	20.79	19.06	20.78	1,710	11.2	136701	32.97
1981	2,463	100.0	11810	10.2	1.9	55.27	-	55.27	13,537	98.8	150429	2.2	28.54	27.62	28.53	1,101	7.5	135881	41.05
1982	[1] 2,808	100.0	11583	9.4	1.3	58.31	-	58.31	10,068	98.6	150759	2.2	26.27	24.81	26.25	339	3.3	135714	42.47
Fort Pierce, City of																			
1979	-	-	-	-	-	-	-	-	67	100.0	147482	2.2	15.83	-	15.83	0	.7	136617	32.98
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	137529	35.95
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	137680	42.22
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	137932	40.49
Fremont Dept of Pub Utils																			
1979	249	-	10816	7.9	.4	-	29.95	29.95	-	-	-	-	-	-	-	-	-	-	-
1980	177	48.8	10907	8.7	.4	38.50	34.14	36.27	-	-	-	-	-	-	-	-	-	-	-
1981	110	100.0	10355	11.1	.5	41.20	-	41.20	-	-	-	-	-	-	-	-	-	-	-
1982	172	36.6	10349	10.2	.5	42.31	41.85	42.02	-	-	-	-	-	-	-	-	-	-	-
Gainesville-Alachua Cnty Utils																			
1979	-	-	-	-	-	-	-	-	313	100.0	151132	2.2	13.24	-	13.24	1	.3	137682	32.84
1980	26	100.0	12685	6.9	.6	52.62	-	52.62	268	100.0	153146	1.5	22.20	-	22.20	2	.6	139608	36.20
1981	262	100.0	12575	6.0	.7	62.92	-	62.92	179	100.0	152765	.7	30.64	-	30.64	26	12.7	138142	43.29
1982	532	76.0	12743	7.7	.7	64.59	48.46	60.72	41	100.0	155871	1.5	25.86	-	25.86	6	13.1	138954	40.51
Garland Mun Pwr and Lt																			
1979	-	-	-	-	-	-	-	-	[2] 160	-	145292	.5	-	15.83	15.83	-	-	-	-
1980	-	-	-	-	-	-	-	-	[2] 16	-	144406	.5	-	24.58	24.58	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	[2] 74	100.0	146226	.6	32.74	-	32.74	-	-	-	-
Georgia Power (SC)																			
1979	18,884	84.0	11872	10.7	1.8	32.32	34.62	32.68	300	100.0	147028	2.8	15.65	-	15.65	498	62.4	135052	21.85
1980	20,726	87.0	11893	10.5	1.9	35.21	38.13	35.59	16	-	147000	.2	-	21.63	21.63	305	95.1	137891	38.08
1981	20,651	87.6	11948	10.6	2.0	40.19	44.29	40.69	-	-	-	-	-	-	-	566	-	138000	45.11
1982	20,406	98.6	11970	10.0	2.0	44.47	46.03	44.49	-	-	-	-	-	-	-	196	-	138000	42.08
Glendale Pub Serv Dept																			
1979	-	-	-	-	-	-	-	-	388	68.3	146802	.3	21.58	16.80	20.06	224	36.6	142193	27.61
1980	-	-	-	-	-	-	-	-	[2] 193	100.0	145292	.2	40.12	-	40.12	[2] 33	14.8	139240	43.08
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Empire Dist Elec																				
1979	2,490	1015	1.50	-	1.50	-	21,848	19,020	302	2,527	87	1	12	22,319	17,860	722	3,737	80	3	17
1980	1,874	1026	2.00	-	2.00	-	21,042	19,119	-	1,923	91	-	9	24,945	21,192	-	3,752	85	-	15
1981	707	1046	2.55	-	2.55	-	17,609	16,869	-	739	96	-	4	22,161	20,359	-	1,801	92	-	8
1982	144	1032	3.04	-	3.04	-	16,732	16,584	-	148	99	-	1	20,183	19,748	-	436	98	-	2
Farmington Elec Utils																				
1979	1,536	1055	-	1.41	1.41	100.0	1,620	-	-	1,620	-	-	100	2,169	-	-	2,169	-	-	100
1980	1,217	1072	-	1.83	1.83	100.0	1,305	-	-	1,305	-	-	100	2,233	-	-	2,233	-	-	100
1981	1,273	1034	-	2.62	2.62	100.0	1,317	-	-	1,317	-	-	100	3,337	-	-	3,337	-	-	100
1982	799	1004	-	3.51	3.51	100.0	802	-	-	802	-	-	100	2,806	-	-	2,806	-	-	100
Fitchburg Gas and Elec																				
1979	-	-	-	-	-	-	23	-	23	-	-	100	-	119	-	119	-	-	100	-
1980	-	-	-	-	-	-	88	-	88	-	-	100	-	458	-	458	-	-	100	-
1981	-	-	-	-	-	-	43	-	43	-	-	100	-	313	-	313	-	-	100	-
1982	-	-	-	-	-	-	11	-	11	-	-	100	-	84	-	84	-	-	100	-
Florida Power and Lt																				
1979	91,248	1000	-	.97	.97	100.0	335,472	-	244,224	91,248	-	73	27	832,613	-	744,278	88,535	-	89	11
1980	91,312	1000	-	1.10	1.10	100.0	339,442	1,404	246,725	91,312	0	73	27	1,063,717	2,894	960,391	100,432	0	90	9
1981	98,451	1000	-	1.28	1.28	100.0	376,278	1,212	276,615	98,451	0	74	26	1,470,314	2,569	1,341,869	125,876	0	91	9
1982	109,648	1000	-	1.61	1.61	100.0	310,007	-	200,359	109,648	-	65	35	1,043,017	-	866,293	176,724	-	83	17
Florida Power Corp																				
1979	15,808	1024	2.44	1.89	2.19	44.5	141,308	37,087	88,038	16,182	26	62	11	361,806	73,079	254,073	34,654	20	70	10
1980	9,510	1027	2.98	-	2.98	-	150,767	45,157	95,838	9,771	30	64	6	460,253	92,842	339,067	28,345	20	74	6
1981	10,392	1025	3.90	-	3.90	-	161,107	58,646	91,810	10,651	36	57	7	609,127	137,234	431,358	40,535	23	71	7
1982	12,255	1030	4.03	3.87	4.00	18.7	146,683	65,056	68,999	12,628	44	47	9	505,846	163,752	293,112	48,982	32	58	10
Fort Pierce, City of																				
1979	2,926	1028	1.51	-	1.51	-	3,424	-	416	3,008	-	12	88	5,479	-	1,072	4,407	-	20	80
1980	3,136	1029	1.96	-	1.96	-	3,230	-	4	3,226	-	0	100	6,178	-	25	6,153	-	0	100
1981	3,141	1028	2.51	-	2.51	-	3,234	-	5	3,230	-	0	100	7,921	-	34	7,888	-	0	100
1982	2,794	1034	2.91	-	2.91	-	2,893	-	2	2,891	-	0	100	8,157	-	16	8,141	-	0	100
Fremont Dept of Pub Utils																				
1979	110	1000	1.86	2.03	2.03	98.7	5,494	5,384	-	110	98	-	2	7,678	7,455	-	223	97	-	3
1980	94	1000	2.10	2.36	2.35	96.0	3,949	3,855	-	94	98	-	2	6,630	6,409	-	221	97	-	3
1981	52	1000	2.85	3.06	3.06	98.3	2,333	2,280	-	52	98	-	2	4,696	4,536	-	160	97	-	3
1982	54	1000	3.62	3.97	3.96	97.2	3,611	3,558	-	54	99	-	1	7,434	7,222	-	212	97	-	3
Gainesville-Alachua Cnty Utils																				
1979	7,282	1028	1.52	-	1.52	-	9,477	-	1,993	7,485	-	21	79	15,226	-	4,176	11,050	-	27	73
1980	8,015	1029	1.99	-	1.99	-	10,642	662	1,734	8,246	6	16	77	23,335	1,373	6,009	15,952	6	26	68
1981	8,436	1028	2.53	-	2.53	-	16,572	6,597	1,301	8,675	40	8	52	44,440	16,505	6,619	21,316	37	15	48
1982	8,058	1032	2.95	-	2.95	-	22,170	13,548	302	8,320	61	1	38	57,344	32,277	1,298	23,769	56	2	41
Garland Mun Pwr and Lt																				
1979	14,192	1046	2.12	-	2.12	-	15,818	-	978	14,840	-	6	94	32,571	-	2,538	30,033	-	8	92
1980	16,024	1033	2.39	-	2.39	-	16,654	-	99	16,555	-	1	99	38,674	-	401	38,274	-	1	99
1981	16,288	1029	3.14	-	3.14	-	16,759	-	-	16,759	-	-	100	51,189	-	-	51,189	-	-	100
1982	11,777	1038	4.14	-	4.14	-	12,680	-	452	12,228	-	4	96	51,209	-	2,410	48,799	-	5	95
Georgia Power (SC)																				
1979	736	1029	2.17	-	2.17	-	453,795	448,361	4,676	757	99	1	0	634,374	617,205	15,575	1,594	97	2	0
1980	2,281	1029	2.38	-	2.38	-	497,205	492,992	1,865	2,347	99	0	0	754,455	737,679	11,356	5,421	98	2	1
1981	1,200	1030	3.16	-	3.16	-	497,989	493,474	3,279	1,235	99	1	0	869,724	840,405	25,525	3,794	97	3	0
1982	174	1029	3.73	-	3.73	-	489,826	488,508	1,139	179	100	0	0	916,782	907,843	8,268	651	99	1	0
Glendale Pub Serv Dept																				
1979	1,872	1079	2.62	-	2.62	-	5,751	-	3,731	2,020	-	65	35	18,871	-	13,974	4,897	-	74	26
1980	4,953	1056	3.51	-	3.51	-	6,602	-	1,371	5,232	-	21	79	26,572	-	9,166	17,406	-	34	66
1981	4,416	1056	3.99	-	3.99	-	4,664	-	-	4,664	-	-	100	17,636	-	-	17,636	-	-	100
1982	3,004	1067	5.30	-	5.30	-	3,206	-	-	3,206	-	-	100	15,932	-	-	15,932	-	-	100

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Grand Island Utils																			
1979	-	-	-	-	-	-	-	-	142	100.0	153811	2.0	14.41	-	14.41	0	0.1	141000	37.76
1980	-	-	-	-	-	-	-	-	40	67.9	151000	1.3	21.31	20.06	20.91	11	21.4	141000	32.98
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	51	100.0	8034	7.1	0.4	30.50	-	30.50	-	-	-	-	-	-	-	-	-	-	-
Grand River Dam Authority																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	1,237	100.0	8283	5.8	.4	26.12	-	26.12	-	-	-	-	-	-	-	91	-	137205	40.91
1982	1,680	100.0	8208	5.4	.4	28.20	-	28.20	-	-	-	-	-	-	-	48	-	137406	38.40
Green Mountain Power Corp																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[3] 4	-	134470	39.39
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[3] 18	-	134470	38.79
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[3] 7	-	134724	46.61
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[3] 7	-	134470	45.09
Greenville Elec Dept																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	138000	15.71
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-	138000	12.42
Greenwood Utils																			
1979	61	100.0	13253	4.6	1.1	43.66	-	43.66	3	-	146881	2.2	-	12.44	12.44	-	-	-	-
1980	76	100.0	12251	9.0	1.6	44.51	-	44.51	-	-	-	-	-	-	-	-	-	-	-
1981	63	100.0	12196	8.5	1.5	49.14	-	49.14	-	-	-	-	-	-	-	-	-	-	-
1982	55	100.0	12753	6.7	1.7	50.46	-	50.46	-	-	-	-	-	-	-	-	-	-	-
Gulf Power																			
1979	2,588	79.4	11877	11.3	2.0	37.92	34.69	37.26	5	100.0	146429	1.5	17.30	-	17.30	2	30.1	140500	28.60
1980	2,840	83.9	11942	11.1	2.1	44.26	36.14	42.95	-	-	-	-	-	-	-	17	-	140500	34.25
1981	3,354	68.8	12070	10.7	2.2	47.78	42.09	46.01	-	-	-	-	-	-	-	9	-	140500	43.53
1982	2,412	94.4	11997	10.9	2.1	50.16	44.41	49.86	-	-	-	-	-	-	-	-	-	-	-
Gulf States Utils																			
1979	-	-	-	-	-	-	-	-	7,385	45.1	148007	.5	21.05	16.55	18.58	87	1.2	146277	19.43
1980	-	-	-	-	-	-	-	-	824	58.9	147775	.6	23.10	25.60	24.13	240	22.6	146340	22.16
1981	66	100.0	8465	7.4	.4	9.94	-	9.94	949	58.8	148969	.8	32.64	35.28	33.73	-	-	-	-
1982	862	100.0	8605	6.3	.5	37.02	-	37.02	291	100.0	150059	.7	28.63	-	28.63	-	-	-	-
Hamilton, City of																			
1979	197	90.2	12242	10.3	.9	34.74	33.53	34.62	-	-	-	-	-	-	-	5	-	137460	25.06
1980	185	100.0	12483	9.9	.8	41.48	-	41.48	-	-	-	-	-	-	-	1	-	137000	38.39
1981	188	100.0	12161	9.9	1.2	42.73	-	42.73	-	-	-	-	-	-	-	1	-	137000	42.37
1982	136	100.0	12389	9.0	.7	45.05	-	45.05	-	-	-	-	-	-	-	29	-	137000	42.95
Hartford Elec Lt Co(NU)																			
1979	-	-	-	-	-	-	-	-	3,612	100.0	146032	.5	20.52	-	20.52	[3] 91	2.5	133747	24.52
1980	-	-	-	-	-	-	-	-	4,857	100.0	145791	.5	28.38	-	28.38	[3] 51	1.0	133098	34.33
1981	-	-	-	-	-	-	-	-	4,113	100.0	147389	.5	34.55	-	34.55	[3] 37	.9	134356	45.27
1982	-	-	-	-	-	-	-	-	2,577	100.0	148396	.5	32.63	-	32.63	2	.1	138544	41.77
Hastings Utils																			
1979	-	-	-	-	-	-	-	-	54	-	150000	.9	-	13.67	13.67	2	3.6	148000	15.76
1980	-	-	-	-	-	-	-	-	28	-	150000	.9	-	18.42	18.42	-	-	-	-
1981	85	100.0	7978	7.2	.2	26.20	-	26.20	-	-	-	-	-	-	-	-	-	-	-
1982	117	100.0	7964	6.4	.4	26.71	-	26.71	-	-	-	-	-	-	-	-	-	-	-
Hawaii Elec Lt Co																			
1979	-	-	-	-	-	-	-	-	406	100.0	144605	1.6	18.67	-	18.67	-	-	-	-
1980	-	-	-	-	-	-	-	-	554	100.0	150162	1.6	24.02	-	24.02	-	-	-	-
1981	-	-	-	-	-	-	-	-	551	100.0	149239	1.8	28.60	-	28.60	17	3.0	139488	42.65
1982	-	-	-	-	-	-	-	-	476	100.0	152319	2.0	29.56	-	29.56	10	2.1	138697	42.10
Hawaiian Elec																			
1979	-	-	-	-	-	-	-	-	8,956	100.0	150855	1.3	15.91	-	15.91	14	.2	139296	27.15
1980	-	-	-	-	-	-	-	-	9,091	96.4	149706	1.1	23.24	36.82	23.46	73	.8	134552	33.84

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Grand Island Utils																				
1979	2,568	943	1.36	-	1.36	-	3,341	-	921	2,420	-	26	72	5,537	-	2,057	3,480	-	37	63
1980	2,515	941	1.71	-	1.71	-	2,681	-	316	2,365	-	12	88	5,479	-	1,187	4,292	-	22	78
1981	1,706	943	2.20	-	2.20	-	1,608	-	-	1,608	-	-	100	3,750	-	-	3,750	-	-	100
1982	213	941	2.65	-	2.65	-	1,024	823	-	201	80	-	20	2,128	1,562	-	566	73	-	27
Grand River Dam Authority																				
1979	1,596	1000	1.76	-	1.76	-	1,596	-	-	1,596	-	-	100	2,806	-	-	2,806	-	-	100
1981	-	-	-	-	-	-	21,008	20,485	522	-	98	2	-	36,015	32,305	3,710	-	90	10	-
1982	-	-	-	-	-	-	27,846	27,571	275	-	99	1	-	49,198	47,368	1,830	-	96	4	-
Green Mountain Power Corp																				
1979	-	-	-	-	-	-	21	-	21	-	-	100	-	145	-	145	-	-	100	-
1980	-	-	-	-	-	-	103	-	103	-	-	100	-	709	-	709	-	-	100	-
1981	-	-	-	-	-	-	42	-	42	-	-	100	-	347	-	347	-	-	100	-
1982	-	-	-	-	-	-	42	-	42	-	-	100	-	336	-	336	-	-	100	-
Greenville Elec Dept																				
1979	2,322	1046	2.13	-	2.13	-	2,484	-	54	2,429	-	2	98	5,087	-	148	4,940	-	3	97
1980	2,923	1045	2.42	-	2.42	-	3,054	-	-	3,054	-	-	100	7,077	-	-	7,077	-	-	100
1981	1,779	1045	3.10	-	3.10	-	1,859	-	-	1,859	-	-	100	5,522	-	-	5,522	-	-	100
1982	829	1073	4.27	-	4.27	-	1,034	-	144	889	-	14	86	3,844	-	309	3,535	-	8	92
Greenwood Utils																				
1979	311	1000	2.01	-	2.01	-	1,946	1,617	19	311	83	1	16	3,339	2,675	37	626	80	1	19
1980	188	998	2.55	-	2.55	-	2,050	1,862	-	187	91	-	9	3,862	3,383	-	479	88	-	12
1981	86	996	2.92	-	2.92	-	1,613	1,527	-	86	95	-	5	3,327	3,076	-	251	92	-	8
1982	7	1000	3.33	-	3.33	-	1,410	1,403	-	7	100	-	0	2,799	2,775	-	23	99	-	1
Gulf Power																				
1979	5,979	1212	2.13	1.77	2.00	36.2	68,764	61,474	44	7,246	89	0	11	108,517	96,413	151	11,953	89	0	11
1980	3,819	1069	2.54	2.04	2.30	48.4	72,088	67,830	99	4,159	94	0	6	131,346	121,979	575	8,791	93	0	7
1981	1,211	1063	-	2.72	2.72	100.0	82,305	80,965	52	1,287	98	0	2	157,974	154,299	383	3,291	98	0	2
1982	409	1071	-	1.48	1.48	100.0	58,311	57,873	-	438	99	-	1	120,865	120,262	-	604	100	-	0
Gulf States Utils																				
1979	221,483	1047	2.57	1.12	1.16	97.0	276,392	-	46,442	231,950	-	17	83	395,855	-	138,916	256,939	-	35	65
1980	273,277	1039	3.46	1.21	1.22	99.4	290,626	-	6,609	284,016	-	2	98	358,862	-	25,203	333,660	-	7	93
1981	277,412	1035	-	1.62	1.62	100.0	294,102	1,117	5,938	287,047	0	2	98	483,278	656	32,009	450,613	0	7	93
1982	247,175	1036	-	1.71	1.71	100.0	272,717	14,835	1,834	256,049	5	1	94	462,050	31,909	8,331	421,810	7	2	91
Hamilton, City of																				
1979	863	1000	1.70	1.66	1.70	4.6	5,726	4,832	31	863	84	1	15	8,432	6,833	133	1,467	81	2	17
1980	413	1000	2.75	-	2.75	-	5,044	4,624	8	413	92	0	8	8,867	7,684	50	1,133	87	1	13
1981	228	1000	2.84	-	2.84	-	4,797	4,564	5	228	95	0	5	8,705	8,019	38	648	92	0	7
1982	288	1000	2.84	3.71	3.70	96.3	3,814	3,358	168	288	88	4	8	8,425	6,105	1,255	1,064	72	15	13
Hartford Elec Lt Co(NU)																				
1979	-	-	-	-	-	-	22,665	-	22,665	-	-	100	-	76,366	-	76,366	-	-	100	-
1980	-	-	-	-	-	-	30,026	-	30,026	-	-	100	-	139,570	-	139,570	-	-	100	-
1981	-	-	-	-	-	-	25,673	-	25,673	-	-	100	-	143,786	-	143,786	-	-	100	-
1982	-	-	-	-	-	-	16,079	-	16,079	-	-	100	-	84,203	-	84,203	-	-	100	-
Hastings Utils																				
1979	1,541	940	1.34	-	1.34	-	1,803	-	354	1,449	-	20	80	2,843	-	773	2,070	-	27	73
1980	1,699	940	1.72	-	1.72	-	1,771	-	174	1,597	-	10	90	3,430	-	509	2,921	-	15	85
1981	230	940	2.15	-	2.15	-	1,576	1,359	-	216	86	-	14	2,727	2,232	-	495	82	-	18
1982	-	-	-	-	-	-	1,860	1,860	-	-	100	-	-	3,120	3,120	-	-	100	-	-
Hawaii Elec Lt Co																				
1979	-	-	-	-	-	-	2,471	-	2,471	-	-	100	-	7,667	-	7,667	-	-	100	-
1980	-	-	-	-	-	-	3,493	-	3,493	-	-	100	-	13,304	-	13,304	-	-	100	-
1981	-	-	-	-	-	-	3,556	-	3,556	-	-	100	-	16,503	-	16,503	-	-	100	-
1982	-	-	-	-	-	-	3,104	-	3,104	-	-	100	-	14,497	-	14,497	-	-	100	-
Hawaiian Elec																				
1979	-	-	-	-	-	-	56,842	-	56,842	-	-	100	-	142,912	-	142,912	-	-	100	-
1980	-	-	-	-	-	-	57,579	-	57,579	-	-	100	-	215,769	-	215,769	-	-	100	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Hawaiian Elec																			
1981	-	-	-	-	-	-	-	-	9,176	100.0	148590	0.5	42.46	-	42.46	39	0.4	140095	41.39
1982	-	-	-	-	-	-	-	-	8,599	100.0	149925	.5	42.71	-	42.71	36	.4	137937	42.16
Henderson Mun Pwr and Lt																			
1979	138	100.0	11073	10.3	2.3	23.18	-	23.18	-	-	-	-	-	-	-	-	-	-	-
1980	149	100.0	11078	9.8	2.5	27.42	-	27.42	-	-	-	-	-	-	-	-	-	-	-
1981	155	100.0	10991	10.7	2.2	30.03	-	30.03	-	-	-	-	-	-	-	-	-	-	-
1982	119	100.0	10858	10.3	1.8	30.09	-	30.09	-	-	-	-	-	-	-	-	-	-	-
Holland Bd of Pub Wks																			
1979	[1] 162	100.0	12455	8.9	1.5	40.82	-	40.82	-	-	-	-	-	-	-	-	-	-	-
1980	124	39.0	12577	9.5	1.4	43.01	43.04	43.03	-	-	-	-	-	-	-	-	-	-	-
1981	129	100.0	12630	8.2	1.3	49.99	-	49.99	-	-	-	-	-	-	-	-	-	-	-
1982	95	100.0	12758	7.6	1.4	51.64	-	51.64	-	-	-	-	-	-	-	-	-	-	-
Holyoke Gas and Elec																			
1979	-	-	-	-	-	-	-	-	54	100.0	146779	1.0	18.98	-	18.98	-	-	-	-
1980	-	-	-	-	-	-	-	-	38	100.0	148542	1.0	30.35	-	30.35	-	-	-	-
1981	-	-	-	-	-	-	-	-	37	100.0	148679	1.0	36.54	-	36.54	-	-	-	-
Holyoke Water Power (NU)																			
1979	-	-	-	-	-	-	-	-	990	100.0	148560	1.3	20.50	-	20.50	-	-	-	-
1980	-	-	-	-	-	-	-	-	1,531	100.0	149439	2.2	24.28	-	24.28	-	-	-	-
1981	99	100.0	12977	7.5	1.4	62.39	-	62.39	1,099	100.0	149331	2.2	31.64	-	31.64	3	.3	139532	44.21
1982	387	100.0	13189	7.8	1.3	62.90	-	62.90	-	-	-	-	-	-	-	5	-	140109	41.10
Hoosier Energy Div-Indiana Rec																			
1979	760	76.1	10449	14.2	3.4	16.54	13.53	15.82	-	-	-	-	-	-	-	-	-	-	-
1980	754	85.3	10790	12.0	3.5	21.04	15.44	20.22	-	-	-	-	-	-	-	-	-	-	-
1981	738	100.0	10767	12.7	3.7	23.40	-	23.40	-	-	-	-	-	-	-	-	-	-	-
1982	1,185	100.0	10989	10.7	3.3	30.81	-	30.81	-	-	-	-	-	-	-	-	-	-	-
Houston Ltng and Power																			
1979	2,816	100.0	8613	5.7	.4	37.57	-	37.57	1,093	-	147218	.9	-	10.19	10.19	46	4.0	139622	11.00
1980	5,794	100.0	8700	5.7	.4	35.84	-	35.84	494	-	147532	.7	-	14.29	14.29	304	38.1	138936	11.14
1981	6,420	100.0	8850	5.5	.4	43.02	-	43.02	386	-	147587	.8	-	17.95	17.95	145	27.3	139643	11.03
1982	6,287	100.0	8471	4.8	.4	46.11	-	46.11	351	-	147317	.7	-	19.32	19.32	216	38.0	139027	12.55
Idaho Power Co																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	136511	19.27
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois Power																			
1979	[1] 7,689	92.4	10845	10.6	2.4	27.22	31.71	27.56	500	100.0	148960	1.0	18.79	-	18.79	677	57.6	138000	24.73
1980	[1] 7,387	94.2	10969	10.5	2.5	30.12	28.98	30.05	308	100.0	150000	.9	26.13	-	26.13	25	7.4	138000	37.17
1981	6,612	92.7	11026	10.1	2.4	33.85	29.14	33.50	42	100.0	150000	.9	35.91	-	35.91	30	42.1	138000	45.85
1982	6,837	90.2	10854	10.5	2.5	34.84	31.19	34.48	56	100.0	150096	.9	28.67	-	28.67	22	27.6	138000	43.06
Imperial Irrigation Dist																			
1979	-	-	-	-	-	-	-	-	951	100.0	151000	.9	18.07	-	18.07	25	2.6	141000	30.45
1980	-	-	-	-	-	-	-	-	247	100.0	151000	.7	22.62	-	22.62	5	2.1	141000	35.95
1981	-	-	-	-	-	-	-	-	105	100.0	149500	1.0	31.24	-	31.24	-	-	-	-
1982	-	-	-	-	-	-	-	-	439	70.8	149500	1.1	32.07	31.90	32.02	-	-	-	-
Independence Pwr & Lt, City of																			
1979	168	-	12300	12.0	3.9		-	28.95	28.95	-	-	-	-	-	-	-	100	-	137266	22.75
1980	244	-	12181	12.2	3.9		-	29.18	29.18	-	-	-	-	-	-	-	56	-	137290	34.93
1981	243	38.3	11895	11.8	3.8	31.02	30.57	30.74	-	-	-	-	-	-	-	-	16	-	137307	42.33
1982	337	-	11663	13.2	3.6		-	34.55	34.55	-	-	-	-	-	-	-	10	-	137418	47.45
Indiana & Michigan Elec (AEP)																			
1979	3,405	99.4	11378	10.9	2.8	33.37	21.57	33.30	-	-	-	-	-	-	-	409	-	138027	20.46
1980	2,872	100.0	11378	11.1	3.0	40.64	-	40.64	-	-	-	-	-	-	-	-	-	-	-
1981	2,402	87.4	11526	10.8	3.3	42.80	31.95	41.43	-	-	-	-	-	-	-	-	-	-	-
1982	2,238	95.0	11706	10.2	2.7	47.41	30.63	46.57	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Hawaiian Elec																				
1981	-	-	-	-	-	-	57,493	-	57,493	-	-	100	-	391,244	-	391,244	-	-	100	-
1982	-	-	-	-	-	-	54,360	-	54,360	-	-	100	-	368,860	-	368,860	-	-	100	-
Henderson Mun Pwr and Lt																				
1979	-	-	-	-	-	-	3,056	3,056	-	-	100	-	-	3,199	3,199	-	-	100	-	-
1980	-	-	-	-	-	-	3,301	3,301	-	-	100	-	-	4,085	4,085	-	-	100	-	-
1981	-	-	-	-	-	-	3,407	3,407	-	-	100	-	-	4,655	4,655	-	-	100	-	-
1982	-	-	-	-	-	-	2,584	2,584	-	-	100	-	-	3,581	3,581	-	-	100	-	-
Holland Bd of Pub Wks																				
1979	-	-	-	-	-	-	4,035	4,035	-	-	100	-	-	6,612	6,612	-	-	100	-	-
1980	-	-	-	-	-	-	3,127	3,127	-	-	100	-	-	5,349	5,349	-	-	100	-	-
1981	-	-	-	-	-	-	3,262	3,262	-	-	100	-	-	6,455	6,455	-	-	100	-	-
1982	-	-	-	-	-	-	2,435	2,435	-	-	100	-	-	4,929	4,929	-	-	100	-	-
Holyoke Gas and Elec																				
1979	233	1000	2.30	-	2.30	-	564	-	331	233	-	59	41	1,555	-	1,019	535	-	66	34
1980	256	1000	2.46	-	2.46	-	495	-	239	256	-	48	52	1,794	-	1,162	632	-	65	35
1981	176	1000	3.12	-	3.12	-	405	-	229	176	-	57	43	1,890	-	1,341	549	-	71	29
Holyoke Water Power (NU)																				
1979	-	-	-	-	-	-	6,177	-	6,177	-	-	100	-	20,291	-	20,291	-	-	100	-
1980	-	-	-	-	-	-	9,609	-	9,609	-	-	100	-	37,180	-	37,180	-	-	100	-
1981	-	-	-	-	-	-	9,480	2,564	6,916	-	27	73	-	41,106	6,164	34,942	-	15	85	-
1982	-	-	-	-	-	-	10,252	10,222	30	-	100	0	-	24,583	24,374	210	-	99	1	-
Hoosier Energy Div-Indiana Rec																				
1979	-	-	-	-	-	-	15,885	15,885	-	-	100	-	-	12,026	12,026	-	-	100	-	-
1980	-	-	-	-	-	-	16,283	16,283	-	-	100	-	-	15,254	15,254	-	-	100	-	-
1981	-	-	-	-	-	-	15,899	15,899	-	-	100	-	-	17,278	17,278	-	-	100	-	-
1982	-	-	-	-	-	-	26,048	26,048	-	-	100	-	-	36,519	36,519	-	-	100	-	-
Houston Ltng and Power																				
1979	469,150	1050	-	1.75	1.75	100.0	548,120	48,512	7,030	492,577	9	1	90	940,143	105,794	11,644	822,706	11	1	88
1980	459,392	1052	-	2.15	2.15	100.0	588,962	100,816	4,833	483,313	17	1	82	1,206,372	207,678	10,441	988,253	17	1	82
1981	450,491	1042	-	2.89	2.89	100.0	586,107	113,628	3,240	469,238	19	1	80	1,585,319	278,205	8,522	1,300,592	17	1	82
1982	427,122	1044	4.40	3.68	3.68	99.9	555,681	106,519	3,433	445,729	19	1	80	1,870,975	289,911	9,495	1,571,570	15	1	84
Idaho Power Co																				
1979	455	1042	2.94	-	2.94	-	477	-	2	475	-	1	99	1,347	-	8	1,339	-	1	99
1980	48	1037	3.90	-	3.90	-	49	-	-	49	-	-	100	186	-	-	186	-	-	100
1981	16	1087	4.58	-	4.58	-	17	-	-	17	-	-	100	71	-	-	71	-	-	100
1982	5	1075	5.74	-	5.74	-	6	-	-	6	-	-	100	30	-	-	30	-	-	100
Illinois Power																				
1979	847	1036	2.42	-	2.42	-	174,706	166,776	7,052	877	95	4	1	240,103	211,907	26,143	2,053	88	11	1
1980	2,161	1036	2.71	-	2.71	-	166,363	162,044	2,080	2,239	97	1	1	236,813	221,993	8,952	5,868	94	4	2
1981	979	1035	3.13	-	3.13	-	147,256	145,802	440	1,013	99	0	1	227,462	221,497	2,900	3,064	97	1	1
1982	215	1038	4.43	4.44	4.43	5.7	149,126	148,423	480	224	100	0	0	239,250	235,751	2,544	955	99	1	0
Imperial Irrigation Dist																				
1979	2,760	1046	2.51	-	2.51	-	9,067	-	6,181	2,886	-	68	32	24,899	-	17,959	6,940	-	72	28
1980	2,970	1044	3.53	-	3.53	-	4,700	-	1,600	3,100	-	34	66	16,277	-	5,787	10,490	-	36	64
1981	4,558	1042	3.79	-	3.79	-	5,414	-	662	4,752	-	12	88	20,591	-	3,293	17,298	-	16	84
1982	1,177	1043	5.03	-	5.03	-	3,985	-	2,757	1,228	-	69	31	19,988	-	14,062	5,926	-	70	30
Independence Pwr & Lt, City of																				
1979	3,000	983	1.37	-	1.37	-	7,659	4,135	576	2,948	54	8	38	11,247	4,866	2,273	4,109	43	20	37
1980	1,903	1002	2.00	-	2.00	-	8,179	5,951	322	1,906	73	4	23	12,881	7,126	1,949	3,803	55	15	30
1981	502	1019	2.54	-	2.54	-	6,375	5,771	92	512	91	1	8	9,407	7,458	675	1,274	79	7	14
1982	86	1012	3.51	-	3.51	-	7,998	7,854	58	87	98	1	1	12,409	11,634	474	301	94	4	2
Indiana & Michigan Elec (AEP)																				
1979	-	-	-	-	-	-	79,867	77,495	2,372	-	97	3	-	121,781	113,412	8,369	-	93	7	-
1980	-	-	-	-	-	-	65,347	65,347	-	-	100	-	-	116,692	116,692	-	-	100	-	-
1981	-	-	-	-	-	-	55,362	55,362	-	-	100	-	-	99,506	99,506	-	-	100	-	-
1982	-	-	-	-	-	-	52,391	52,391	-	-	100	-	-	104,224	104,224	-	-	100	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Indiana-Kentucky Elec Corp																			
1979	3,842	30.2	10954	13.2	3.9	17.10	22.86	21.12	-	-	-	-	-	-	-	-	-	-	-
1980	4,250	39.0	10985	13.0	3.7	19.01	25.22	22.79	-	-	-	-	-	-	-	-	-	-	-
1981	3,855	30.1	11029	12.7	3.7	20.71	28.51	26.16	-	-	-	-	-	-	-	-	-	-	-
1982	4,008	78.2	11165	11.2	3.5	29.39	28.93	29.29	-	-	-	-	-	-	-	-	-	-	-
Indianapolis Power and Lt																			
1979	5,510	97.5	10939	9.9	2.6	21.90	20.18	21.86	-	-	-	-	-	-	-	180	-	136021	24.81
1980	6,140	98.6	10942	9.8	2.3	22.74	21.55	22.72	-	-	-	-	-	-	-	120	-	136816	35.21
1981	4,779	93.4	11003	9.2	2.2	25.75	23.89	25.63	-	-	-	-	-	-	-	71	-	137088	43.15
1982	5,431	97.6	11035	9.0	2.2	27.57	24.72	27.50	-	-	-	-	-	-	-	58	-	136716	40.36
Interstate Power																			
1979	1,409	100.0	9776	8.9	1.9	27.10	-	27.10	212	100.0	151167	1.5	16.83	-	16.83	144	40.4	140000	21.35
1980	1,552	100.0	9416	8.1	1.5	29.52	-	29.52	2	100.0	150998	.5	21.63	-	21.63	46	95.8	140000	35.16
1981	1,636	100.0	9193	7.8	1.2	30.12	-	30.12	-	-	-	-	-	-	-	6	-	140000	43.68
1982	1,594	100.0	9297	7.6	1.3	32.53	-	32.53	16	100.0	150640	1.8	29.42	-	29.42	7	29.5	140000	39.50
Iowa Elec Lt and Power																			
1979	973	81.8	9948	11.4	2.7	36.72	32.65	35.98	-	-	-	-	-	-	-	10	-	138511	30.21
1980	731	99.7	10219	10.1	2.5	44.06	34.95	44.06	-	-	-	-	-	-	-	13	-	138500	39.24
1981	728	100.0	10409	9.5	2.5	49.67	-	49.67	-	-	-	-	-	-	-	-	-	-	-
1982	590	100.0	10531	9.8	2.8	53.24	-	53.24	-	-	-	-	-	-	-	-	-	-	-
Iowa Power and Lt																			
1979	3,025	99.9	8573	5.9	.6	13.44	23.02	13.45	-	-	-	-	-	-	-	1,001	-	136000	18.51
1980	2,539	100.0	8596	5.6	.5	17.88	-	17.88	-	-	-	-	-	-	-	36	-	136000	33.33
1981	2,460	98.1	8500	5.2	.4	16.76	28.24	16.99	-	-	-	-	-	-	-	-	-	-	-
1982	2,422	100.0	8335	4.9	.3	17.97	-	17.97	-	-	-	-	-	-	-	-	-	-	-
Iowa Pub Serv																			
1979	4,579	98.5	9359	9.4	.6	22.83	34.44	23.01	-	-	-	-	-	-	-	308	-	140000	21.83
1980	4,126	93.7	9281	9.2	.6	24.91	30.79	25.28	-	-	-	-	-	-	-	11	-	140000	35.99
1981	3,468	98.9	9075	8.8	.5	28.38	40.70	28.51	-	-	-	-	-	-	-	5	-	140000	41.75
1982	3,247	98.9	9115	7.1	.5	30.40	44.41	30.55	-	-	-	-	-	-	-	4	-	140000	41.99
Iowa Southern Utils																			
1979	459	41.3	10368	7.8	2.5	24.17	28.53	26.73	-	-	-	-	-	-	-	64	-	137881	31.13
1980	920	65.7	9379	6.4	1.3	21.27	31.51	24.78	-	-	-	-	-	-	-	20	-	137881	34.74
1981	1,487	85.8	9021	5.9	.8	22.91	34.24	24.51	-	-	-	-	-	-	-	82	-	137881	43.19
1982	1,859	99.7	8899	5.5	.7	25.07	38.73	25.10	-	-	-	-	-	-	-	16	-	137881	40.29
Iowa-Illinois Gas and Elec																			
1979	469	100.0	10087	9.7	2.6	28.94	-	28.94	-	-	-	-	-	-	-	113	-	137568	23.41
1980	339	99.7	10303	10.5	2.6	31.48	36.55	31.49	-	-	-	-	-	-	-	-	-	-	-
1981	170	100.0	10370	10.3	2.8	33.96	-	33.96	-	-	-	-	-	-	-	-	-	-	-
1982	348	100.0	9677	9.1	1.9	32.14	-	32.14	-	-	-	-	-	-	-	24	-	138502	30.56
Jacksonville Elec Authority																			
1979	-	-	-	-	-	-	-	-	9,635	98.4	150949	1.3	17.58	24.02	17.68	358	3.6	138764	31.33
1980	-	-	-	-	-	-	-	-	8,895	98.8	151344	1.4	24.05	18.87	23.99	145	1.6	136950	33.24
1981	-	-	-	-	-	-	-	-	8,314	97.4	150889	1.5	29.71	31.89	29.76	28	.3	137534	40.32
1982	-	-	-	-	-	-	-	-	6,078	96.5	152491	1.5	27.56	27.57	27.56	-	-	-	-
Jamestown Bd of Pub Utils																			
1979	69	-	12031	12.8	2.2	-	29.65	29.65	-	-	-	-	-	-	-	-	-	-	-
1980	168	-	11646	13.2	2.2	-	29.74	29.74	-	-	-	-	-	-	-	-	-	-	-
1981	119	-	11833	14.5	2.6	-	33.79	33.79	-	-	-	-	-	-	-	-	-	-	-
1982	134	-	12481	11.1	2.5	-	38.56	38.56	-	-	-	-	-	-	-	-	-	-	-
Jersey Cent Pwr and Lt (GPS)																			
1979	-	-	-	-	-	-	-	-	1,933	100.0	145487	.4	21.41	-	21.41	838	30.2	140527	25.75
1980	-	-	-	-	-	-	-	-	986	100.0	146065	.4	29.49	-	29.49	669	46.6	138693	34.50
1981	-	-	-	-	-	-	-	-	772	100.0	146090	.4	35.59	-	35.59	460	37.3	139641	42.45
1982	-	-	-	-	-	-	-	-	493	100.0	146671	.4	33.34	-	33.34	269	35.3	140452	40.60

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Indiana-Kentucky Elec Corp																				
1979	-	-	-	-	-	-	84,174	84,174	-	-	100	-	-	81,132	81,132	-	-	100	-	-
1980	-	-	-	-	-	-	93,373	93,373	-	-	100	-	-	96,877	96,877	-	-	100	-	-
1981	-	-	-	-	-	-	85,032	85,032	-	-	100	-	-	100,851	100,851	-	-	100	-	-
1982	-	-	-	-	-	-	89,495	89,495	-	-	100	-	-	117,408	117,408	-	-	100	-	-
Indianapolis Power and Lt																				
1979	-	-	-	-	-	-	121,583	120,552	1,031	-	99	1	-	124,903	120,428	4,475	-	96	4	-
1980	-	-	-	-	-	-	135,049	134,361	688	-	99	1	-	143,730	139,512	4,218	-	97	3	-
1981	-	-	-	-	-	-	105,571	105,163	409	-	100	0	-	125,544	122,480	3,064	-	98	2	-
1982	-	-	-	-	-	-	120,200	119,864	336	-	100	0	-	151,738	149,378	2,360	-	98	2	-
Interstate Power																				
1979	3,125	985	1.73	-	1.73	-	32,823	27,548	2,195	3,079	84	7	9	50,240	38,178	6,649	5,413	76	13	11
1980	1,703	991	1.94	-	1.94	-	31,192	29,223	281	1,687	94	1	5	50,753	45,804	1,650	3,299	90	3	7
1981	1,433	991	2.58	-	2.58	-	31,530	30,074	36	1,421	95	0	5	53,232	49,270	265	3,697	93	0	7
1982	863	994	3.18	-	3.18	-	30,648	29,645	144	858	97	0	3	55,363	51,863	753	2,747	94	1	5
Iowa Elec Lt and Power																				
1979	3,118	1024	2.23	-	2.23	-	22,602	19,353	56	3,193	86	0	14	42,226	34,994	293	6,939	83	1	16
1980	1,259	1019	2.91	-	2.91	-	16,302	14,941	78	1,284	92	0	8	36,398	32,207	526	3,665	88	1	10
1981	476	1017	3.23	-	3.23	-	15,640	15,156	-	484	97	-	3	37,703	36,164	-	1,539	96	-	4
1982	273	1016	3.60	-	3.60	-	12,704	12,427	-	277	98	-	2	32,395	31,413	-	982	97	-	3
Iowa Power and Lt																				
1979	547	986	1.83	-	1.83	-	58,118	51,863	5,715	540	89	10	1	60,197	40,679	18,515	1,002	68	31	2
1980	749	987	2.20	-	2.20	-	44,592	43,648	204	739	98	0	2	48,235	45,395	1,193	1,646	94	2	3
1981	330	987	2.94	-	2.94	-	42,144	41,818	-	326	99	-	1	42,755	41,782	-	973	98	-	2
1982	253	993	3.66	-	3.66	-	40,625	40,374	-	251	99	-	1	44,449	43,524	-	925	98	-	2
Iowa Pub Serv																				
1979	955	1000	-	1.82	1.82	100.0	88,479	85,711	1,813	955	97	2	1	113,812	105,341	6,733	1,738	93	6	2
1980	1,686	994	-	1.98	1.98	100.0	78,320	76,581	63	1,675	98	0	2	108,013	104,290	385	3,338	97	0	3
1981	662	995	-	2.57	2.57	100.0	63,632	62,944	29	659	99	0	1	100,803	98,892	209	1,702	98	0	2
1982	328	997	-	3.53	3.53	100.0	59,533	59,182	25	327	99	0	1	100,501	99,167	176	1,158	99	0	1
Iowa Southern Utils																				
1979	-	-	-	-	-	-	9,897	9,524	373	-	96	4	-	14,280	12,275	2,004	-	86	14	-
1980	-	-	-	-	-	-	17,367	17,250	117	-	99	1	-	23,489	22,787	702	-	97	3	-
1981	-	-	-	-	-	-	26,951	26,473	477	-	98	2	-	39,530	35,971	3,559	-	91	9	-
1982	-	-	-	-	-	-	33,189	33,094	95	-	100	0	-	47,340	46,679	661	-	99	1	-
Iowa-Illinois Gas and Elec																				
1979	3,589	1029	2.10	2.58	2.22	23.5	13,816	9,467	655	3,694	69	5	27	24,189	13,583	2,652	7,954	56	11	33
1980	3,197	1027	2.59	3.06	2.64	10.1	10,264	6,981	-	3,283	68	-	32	19,111	10,669	-	8,442	56	-	44
1981	1,718	1023	3.14	3.61	3.23	20.4	5,293	3,534	-	1,758	67	-	33	11,339	5,787	-	5,552	51	-	49
1982	1,291	1038	3.52	4.00	3.74	46.2	8,208	6,730	138	1,340	82	2	16	16,729	11,174	727	4,828	67	4	29
Jacksonville Elec Authority																				
1979	-	-	-	-	-	-	63,172	-	63,172	-	-	100	-	181,545	-	181,545	-	-	100	-
1980	-	-	-	-	-	-	57,375	-	57,375	-	-	100	-	218,241	-	218,241	-	-	100	-
1981	-	-	-	-	-	-	52,853	-	52,853	-	-	100	-	248,593	-	248,593	-	-	100	-
1982	-	-	-	-	-	-	38,928	-	38,928	-	-	100	-	167,531	-	167,531	-	-	100	-
Jamestown Bd of Pub Utils																				
1979	-	-	-	-	-	-	2,137	2,137	-	-	100	-	-	2,634	2,634	-	-	100	-	-
1980	-	-	-	-	-	-	3,981	3,981	-	-	100	-	-	4,998	4,998	-	-	100	-	-
1981	-	-	-	-	-	-	2,818	2,818	-	-	100	-	-	4,024	4,024	-	-	100	-	-
1982	-	-	-	-	-	-	3,341	3,341	-	-	100	-	-	5,162	5,162	-	-	100	-	-
Jersey Cent Pwr and Lt (GPS)																				
1979	6,623	1023	2.77	-	2.77	-	23,533	-	16,758	6,776	-	71	29	81,341	-	62,970	18,371	-	77	23
1980	12,823	1020	3.42	-	3.42	-	24,191	-	11,111	13,081	-	46	54	102,942	-	59,062	43,881	-	57	43
1981	16,520	1027	4.58	-	4.58	-	24,402	-	7,434	16,968	-	30	70	122,655	-	46,993	75,662	-	38	62
1982	18,463	1030	5.17	-	5.17	-	23,636	-	4,622	19,014	-	20	80	122,908	-	27,404	95,504	-	22	78

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Jonesboro Water and Lt Plant																			
1979	-	-	-	-	-	-	-	-	[1] 4	-	145000	1.0	-	18.44	18.44	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas City Bd Pub Utils																			
1979	731	55.8	12061	11.3	3.2	29.44	28.24	28.91	-	-	-	-	-	-	-	36	-	138000	32.95
1980	681	58.8	12248	11.0	3.0	35.70	31.23	33.85	-	-	-	-	-	-	-	27	-	138000	33.92
1981	868	97.7	10439	10.9	2.3	34.41	36.38	34.45	-	-	-	-	-	-	-	4	-	138000	42.57
1982	1,227	94.8	9561	8.7	1.5	34.46	36.93	34.58	-	-	-	-	-	-	-	17	-	138000	38.97
Kansas City Power and Lt																			
1979	[1] 6,825	98.4	9379	14.2	2.9	15.28	20.57	15.37	-	-	-	-	-	-	-	403	-	138066	21.42
1980	8,739	100.0	9324	11.5	2.4	18.45	-	18.45	-	-	-	-	-	-	-	231	-	137815	34.59
1981	8,028	96.8	9266	11.1	2.1	20.41	23.56	20.51	-	-	-	-	-	-	-	53	-	137539	41.16
1982	6,003	88.1	9188	12.0	2.2	22.75	21.64	22.62	-	-	-	-	-	-	-	83	-	139600	38.88
Kansas Gas and Elec																			
1979	-	-	-	-	-	-	-	-	1,064	29.3	151480	1.6	11.54	12.96	12.54	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	94	-	150658	1.3	-	22.58	22.56	-	-	-	-
Kansas Power and Lt Co																			
1979	4,863	96.6	9177	7.0	.4	19.06	34.62	19.59	602	46.7	149779	1.5	13.29	13.38	13.34	239	28.4	138348	19.97
1980	5,492	100.0	8909	6.6	.4	19.68	-	19.68	-	-	-	-	-	-	-	-	-	-	-
1981	6,239	100.0	8923	6.3	.4	21.47	-	21.47	-	-	-	-	-	-	-	26	-	138000	41.71
1982	6,268	100.0	8766	6.2	.4	23.76	-	23.76	191	-	152081	1.2	-	23.90	23.90	36	16.0	137045	39.32
Kentucky Power (AEP)																			
1979	2,132	77.1	11339	13.5	1.2	27.87	26.26	27.50	-	-	-	-	-	-	-	-	-	-	-
1980	2,417	66.8	11679	12.6	1.2	29.77	29.58	29.71	-	-	-	-	-	-	-	-	-	-	-
1981	2,516	49.8	11686	12.5	1.0	35.32	33.84	34.58	-	-	-	-	-	-	-	-	-	-	-
1982	2,144	74.7	12000	11.4	1.0	40.16	35.51	38.99	-	-	-	-	-	-	-	-	-	-	-
Kentucky Utils																			
1979	4,271	58.1	11727	11.1	2.1	31.39	27.81	29.89	-	-	-	-	-	-	-	5	-	140000	20.75
1980	4,098	67.7	11846	9.8	2.1	34.33	28.51	32.45	-	-	-	-	-	-	-	3	-	140000	33.42
1981	3,879	67.7	11864	10.1	1.9	41.90	32.96	39.01	-	-	-	-	-	-	-	3	-	140000	43.65
1982	4,276	61.6	11870	9.7	1.9	45.65	33.51	40.99	-	-	-	-	-	-	-	-	-	-	-
Key West, Util Bd of																			
1979	-	-	-	-	-	-	-	-	630	100.0	148304	2.1	17.06	-	17.06	103	14.1	135417	26.38
1980	-	-	-	-	-	-	-	-	721	100.0	149807	2.2	22.67	-	22.67	22	3.0	142914	28.11
1981	-	-	-	-	-	-	-	-	678	100.0	150651	2.3	29.03	-	29.03	103	13.2	136484	43.48
1982	-	-	-	-	-	-	-	-	673	100.0	150874	2.3	26.17	-	26.17	25	3.6	137669	41.97
Lafayette Util Sys, City of																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	59	-	147185	.6	-	26.89	26.89	7	10.9	137259	34.50
1981	-	-	-	-	-	-	-	-	50	-	146522	.9	-	31.29	31.29	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lake Superior Dist Power																			
1979	117	95.8	9542	9.2	1.2	29.62	27.01	29.51	-	-	-	-	-	-	-	-	-	-	-
1980	[1] 143	100.0	10326	8.7	1.4	33.00	-	33.00	-	-	-	-	-	-	-	-	-	-	-
1981	[1] 112	100.0	8113	8.7	.8	25.36	-	25.36	-	-	-	-	-	-	-	-	-	-	-
1982	[1] 145	100.0	7634	8.1	.6	25.83	-	25.83	-	-	-	-	-	-	-	-	-	-	-
Lake Worth Utils																			
1979	-	-	-	-	-	-	-	-	56	-	149489	2.2	-	19.84	19.84	40	41.3	140000	35.62
1980	-	-	-	-	-	-	-	-	67	-	148001	2.2	-	23.47	23.47	-	-	-	-
1981	-	-	-	-	-	-	-	-	35	-	148089	2.2	-	31.74	31.74	5	12.1	139781	43.62
1982	-	-	-	-	-	-	-	-	11	-	148100	2.2	-	28.64	28.64	5	32.4	138000	40.81
Lakeland, City of																			
1979	-	-	-	-	-	-	-	-	1,102	100.0	148169	1.3	19.01	-	19.01	7	.6	137072	27.35
1980	-	-	-	-	-	-	-	-	1,154	100.0	148775	1.4	23.64	-	23.64	34	2.9	137604	34.90
1981	-	-	-	-	-	-	-	-	1,276	97.3	149779	1.4	31.12	30.83	31.11	11	.8	137712	42.37
1982	321	100.0	11788	14.1	2.0	51.36	-	51.36	1,099	100.0	149778	1.2	29.96	-	29.96	50	4.4	139159	40.19

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Jonesboro Water and Lt Plant																				
1979	113	1014	1.81	-	1.81	-	141	-	26	115	-	18	82	282	-	77	205	-	27	73
1980	89	1014	2.25	-	2.25	-	91	-	-	91	-	-	100	201	-	-	201	-	-	100
Kansas City Bd Pub Utils																				
1979	6,424	971	1.42	-	1.42	-	24,085	17,638	208	6,239	73	1	26	31,458	21,140	1,180	9,138	67	4	29
1980	5,329	1003	2.21	-	2.21	-	22,169	16,670	157	5,343	75	1	24	35,745	23,038	917	11,790	64	3	33
1981	2,407	1026	2.78	-	2.78	-	20,606	18,115	21	2,470	88	0	12	36,749	29,895	153	6,702	81	0	18
1982	846	1012	3.53	-	3.53	-	24,414	23,459	99	857	96	0	4	46,080	42,427	663	2,990	92	1	6
Kansas City Power and Lt																				
1979	7,478	950	1.45	-	1.45	-	137,471	128,029	2,337	7,104	93	2	5	124,370	104;896	8,632	10,843	84	7	9
1980	6,432	950	2.16	-	2.16	-	170,418	162,973	1,335	6,110	96	1	4	183,149	161,250	7,976	13,923	88	4	8
1981	3,538	962	2.60	-	2.60	-	152,481	148,768	309	3,404	98	0	2	176,028	164,623	2,202	9,203	94	1	5
1982	2,621	1024	3.66	-	3.66	-	150,219	147,048	486	2,685	98	0	2	193,824	181,015	3,223	9,585	93	2	5
Kansas Gas and Elec																				
1979	43,973	964	1.36	-	1.36	-	49,172	-	6,767	42,404	-	14	86	73,241	-	13,339	59,902	-	18	82
1980	42,697	959	1.62	-	1.62	-	40,925	-	-	40,925	-	-	100	69,275	-	-	69,275	-	-	100
1981	32,050	966	2.22	-	2.22	-	30,953	-	-	30,953	-	-	100	71,046	-	-	71,046	-	-	100
1982	27,573	970	2.43	-	2.43	-	27,350	-	595	26,755	-	2	98	68,986	-	2,120	66,866	-	3	97
Kansas Power and Lt Co																				
1979	19,917	1000	1.33	-	1.33	-	114,711	89,613	5,182	19,917	78	5	17	134,862	95,645	12,817	26,400	71	10	20
1980	13,167	1013	1.58	-	1.58	-	111,194	97,862	-	13,332	88	-	12	128,969	108,107	-	20,863	84	-	16
1981	12,461	1025	1.84	-	1.84	-	124,250	111,329	151	12,770	90	0	10	157,962	133,965	1,084	22,913	85	1	15
1982	7,982	1023	2.29	-	2.29	-	119,487	109,896	1,428	8,164	92	1	7	173,222	148,916	5,989	18,317	86	3	11
Kentucky Power (AEP)																				
1979	-	-	-	-	-	-	48,348	48,348	-	-	100	-	-	58,628	58,628	-	-	100	-	-
1980	-	-	-	-	-	-	56,464	56,464	-	-	100	-	-	71,810	71,810	-	-	100	-	-
1981	-	-	-	-	-	-	59,814	59,814	-	-	100	-	-	87,012	87,012	-	-	100	-	-
1982	-	-	-	-	-	-	51,457	51,457	-	-	100	-	-	83,584	83,584	-	-	100	-	-
Kentucky Utils																				
1979	16	1000	2.31	-	2.31	-	100,217	100,171	30	16	100	0	0	127,801	127,658	106	37	100	0	0
1980	5	1000	3.07	-	3.07	-	97,107	97,082	20	5	100	0	0	133,090	132,962	111	17	100	0	0
1981	10	1000	3.40	-	3.40	-	92,069	92,042	17	10	100	0	0	151,463	151,302	127	34	100	0	0
1982	1	1000	5.10	-	5.10	-	101,522	101,521	-	1	100	-	0	175,296	175,289	-	7	100	-	0
Key West, Util Bd of																				
1979	-	-	-	-	-	-	4,511	-	4,511	-	-	100	-	13,471	-	13,471	-	-	100	-
1980	-	-	-	-	-	-	4,667	-	4,667	-	-	100	-	16,957	-	16,957	-	-	100	-
1981	-	-	-	-	-	-	4,880	-	4,880	-	-	100	-	24,157	-	24,157	-	-	100	-
1982	-	-	-	-	-	-	4,408	-	4,408	-	-	100	-	18,657	-	18,657	-	-	100	-
Lafayette Util Sys, City of																				
1979	16,245	1064	-	2.31	2.31	100.0	17,280	-	-	17,280	-	-	100	37,481	-	-	37,481	-	-	100
1980	14,624	1058	-	2.77	2.77	100.0	15,886	-	409	15,477	-	3	97	42,302	-	1,847	40,455	-	4	96
1981	15,332	1047	4.02	3.39	3.41	97.7	16,369	-	310	16,059	-	2	98	53,844	-	1,577	52,266	-	3	97
1982	9,536	1062	-	3.71	3.71	100.0	10,123	-	-	10,123	-	-	100	35,388	-	-	35,388	-	-	100
Lake Superior Dist Power																				
1979	370	986	1.66	-	1.66	-	2,596	2,231	-	365	86	-	14	4,065	3,450	-	615	85	-	15
1980	142	992	1.64	-	1.64	-	3,091	2,950	-	141	95	-	5	4,976	4,715	-	262	95	-	5
1981	5	994	2.51	-	2.51	-	1,819	1,814	-	5	100	-	0	2,848	2,836	-	12	100	-	0
1982	7	995	3.25	-	3.25	-	2,215	2,208	-	7	100	-	0	3,758	3,736	-	22	99	-	1
Lake Worth Utils																				
1979	2,615	1028	1.75	-	1.75	-	3,275	-	587	2,688	-	18	82	7,102	-	2,528	4,574	-	36	64
1980	3,066	1029	2.42	-	2.42	-	3,571	-	415	3,156	-	12	88	9,002	-	1,568	7,433	-	17	83
1981	3,382	1028	2.70	-	2.70	-	3,722	-	244	3,477	-	7	93	10,432	-	1,313	9,119	-	13	87
1982	3,171	1034	3.44	-	3.44	-	3,379	-	102	3,278	-	3	97	11,461	-	545	10,915	-	5	95
Lakeland, City of																				
1979	7,314	1027	1.55	-	1.55	-	14,415	-	6,902	7,514	-	48	52	32,476	-	21,152	11,323	-	65	35
1980	8,326	1031	1.97	-	1.97	-	15,989	-	7,406	8,583	-	46	54	44,840	-	28,467	16,373	-	63	37
1981	6,601	1031	2.51	-	2.51	-	14,892	-	6,088	8,804	-	54	46	56,719	-	40,151	16,568	-	71	29
1982	6,175	1034	2.89	-	2.89	-	23,227	7,569	7,207	8,451	33	31	36	75,025	16,489	34,941	23,595	22	47	31

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Lamar Utils Bd																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lansing Bd of Water and Lt																			
1979	1,122	86.4	12717	6.4	1.4	43.62	44.21	43.70	-	-	-	-	-	-	-	-	-	-	-
1980	1,149	97.6	12747	8.2	.8	49.15	50.19	49.18	-	-	-	-	-	-	-	-	-	-	-
1981	1,046	91.6	12540	8.7	.8	53.59	55.61	53.76	-	-	-	-	-	-	-	-	-	-	-
1982	1,003	95.1	12662	8.2	.7	58.70	59.62	58.74	-	-	-	-	-	-	-	-	-	-	-
Lee County Elec Coop																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lincoln Elec Sys																			
1979	-	-	-	-	-	-	-	-	6	-	154078	1.1	-	16.53	16.53	1	17.4	138000	31.88
1980	-	-	-	-	-	-	-	-	2	-	153941	1.5	-	21.94	21.94	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	137911	36.22
Logansport Indiana Elec Dept																			
1979	67	100.0	11348	7.9	1.8	32.93		- 32.93	-	-	-	-	-	-	-	9	-	138000	23.95
1980	60	100.0	12095	7.0	1.5	30.10		- 30.10	-	-	-	-	-	-	-	10	-	136293	33.90
1981	66	100.0	12740	8.8	1.3	64.84		- 64.84	-	-	-	-	-	-	-	1	-	138000	38.52
1982	64	98.6	11374	8.4	1.1	40.63	37.28	40.59	-	-	-	-	-	-	-	0	-	138000	40.33
Long Island Lting																			
1979	-	-	-	-	-	-	-	-	16,708	99.4	149249	1.9	16.32	21.88	16.36	295	1.7	137376	26.18
1980	-	-	-	-	-	-	-	-	14,904	95.6	149839	2.1	22.77	24.03	22.82	204	1.4	138581	34.31
1981	-	-	-	-	-	-	-	-	15,955	98.8	150274	2.0	29.32	39.00	29.44	254	1.6	138558	42.94
1982	-	-	-	-	-	-	-	-	15,235	100.0	150589	2.0	26.51	-	26.51	179	1.2	138185	41.28
Los Angeles Dept of Wtr &d Pwr																			
1979	-	-	-	-	-	-	-	-	14,204	100.0	145573	.2	19.93	-	19.93	42	.3	141911	30.99
1980	-	-	-	-	-	-	-	-	9,211	100.0	145223	.2	31.77	-	31.77	52	.6	142816	40.64
1981	-	-	-	-	-	-	-	-	3,963	100.0	145906	.2	38.39	-	38.39	-	-	-	-
1982	-	-	-	-	-	-	-	-	1,248	100.0	145638	.3	34.30	-	34.30	6	.5	142864	35.16
Louisiana Power and Lt (MSU)																			
1979	-	-	-	-	-	-	-	-	4,890	100.0	147652	1.1	15.66	-	15.66	1,299	21.0	139008	15.54
1980	-	-	-	-	-	-	-	-	4,399	100.0	149932	1.0	21.81	-	21.81	1,063	19.5	146239	26.86
1981	-	-	-	-	-	-	-	-	1,866	100.0	151142	1.0	23.85	-	23.85	1,319	41.4	143916	36.02
1982	-	-	-	-	-	-	-	-	172	100.0	151557	1.0	24.33	-	24.33	101	37.0	145189	37.43
Louisville Gas and Elec																			
1979	3,957	79.1	10946	13.5	3.5	23.65	22.44	23.40	-	-	-	-	-	-	-	36	-	140000	27.47
1980	3,487	81.8	11006	13.8	3.5	26.86	24.85	26.49	-	-	-	-	-	-	-	62	-	140000	35.98
1981	3,185	78.4	11083	13.1	3.3	28.17	27.87	28.10	-	-	-	-	-	-	-	28	-	140000	43.55
1982	3,392	85.9	11052	13.0	3.4	29.41	30.76	29.60	-	-	-	-	-	-	-	70	-	140000	40.18
Lower Colorado River Authority																			
1979	1,609	100.0	9627	3.6	.4	35.55		- 35.55	-	-	-	-	-	-	-	75	-	141000	23.20
1980	3,398	100.0	9265	4.4	.4	38.38		- 38.38	-	-	-	-	-	-	-	53	-	141000	34.32
1981	4,255	100.0	9296	4.4	.4	44.09		- 44.09	-	-	-	-	-	-	-	25	-	141000	41.05
1982	3,966	100.0	9185	4.7	.4	46.83		- 46.83	-	-	-	-	-	-	-	16	-	141000	39.14
Lubbock Power and Lt Dept																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	137514	19.83
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	138000	42.44
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	138000	30.53

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Lamar Utils Bd																				
1979	1,235	957	1.44	1.10	1.22	64.2	1,182	-	-	1,182	-	-	100	1,510	-	-	1,510	-	-	100
1980	1,187	968	1.65	1.15	1.37	55.8	1,149	-	-	1,149	-	-	100	1,629	-	-	1,629	-	-	100
1981	1,050	972	1.85	1.19	1.45	60.6	1,020	-	-	1,020	-	-	100	1,519	-	-	1,519	-	-	100
1982	1,034	994	2.97	1.66	2.26	64.3	1,028	-	-	1,028	-	-	100	2,334	-	-	2,334	-	-	100
Lansing Bd of Water and Lt																				
1979	-	-	-	-	-	-	28,541	28,541	-	-	100	-	-	49,043	49,043	-	-	100	-	-
1980	-	-	-	-	-	-	29,295	29,295	-	-	100	-	-	56,509	56,509	-	-	100	-	-
1981	-	-	-	-	-	-	26,247	26,247	-	-	100	-	-	56,255	56,255	-	-	100	-	-
1982	-	-	-	-	-	-	25,408	25,408	-	-	100	-	-	58,939	58,939	-	-	100	-	-
Lee County Elec Coop																				
1979	2,393	1111	2.25	-	2.25	-	2,658	-	-	2,658	-	-	100	5,384	-	-	5,384	-	-	100
1980	2,360	1107	2.74	-	2.74	-	2,612	-	-	2,612	-	-	100	6,461	-	-	6,461	-	-	100
1981	2,374	1124	3.10	-	3.10	-	2,667	-	-	2,667	-	-	100	7,370	-	-	7,370	-	-	100
1982	2,473	1127	3.51	-	3.51	-	2,787	-	-	2,787	-	-	100	8,678	-	-	8,678	-	-	100
Lincoln Elec Sys																				
1979	29	991	2.35	-	2.35	-	77	-	47	29	-	62	38	212	-	143	69	-	67	33
1980	22	997	2.22	-	2.22	-	35	-	13	22	-	37	63	94	-	45	49	-	48	52
1981	10	991	2.95	-	2.95	-	10	-	-	10	-	-	100	31	-	-	31	-	-	100
1982	2	994	3.92	-	3.92	-	48	-	46	2	-	95	5	295	-	286	9	-	97	3
Logansport Indiana Elec Dept																				
1979	-	-	-	-	-	-	1,586	1,532	54	-	97	3	-	2,446	2,223	223	-	91	9	-
1980	-	-	-	-	-	-	1,523	1,463	60	-	96	4	-	2,176	1,821	356	-	84	16	-
1981	-	-	-	-	-	-	1,699	1,693	6	-	100	0	-	4,348	4,308	40	-	99	1	-
1982	-	-	-	-	-	-	1,450	1,447	2	-	100	0	-	2,598	2,583	16	-	99	1	-
Long Island Ltng																				
1979	10,806	1030	2.95	-	2.95	-	117,570	-	106,435	11,135	-	91	9	312,892	-	281,045	31,847	-	90	10
1980	20,360	1035	3.15	-	3.15	-	116,045	-	94,982	21,063	-	82	18	411,206	-	347,163	64,043	-	84	16
1981	23,334	1036	4.17	-	4.17	-	126,346	-	102,178	24,168	-	81	19	577,935	-	480,639	97,296	-	83	17
1982	21,646	1032	4.19	-	4.19	-	119,739	-	97,397	22,343	-	81	19	501,893	-	411,205	90,688	-	82	18
Los Angeles Dept of Wtr &d Pwr																				
1979	30,710	1050	2.49	-	2.49	-	119,340	-	87,094	32,246	-	73	27	360,821	-	284,378	76,443	-	79	21
1980	48,312	1050	3.55	-	3.55	-	107,234	-	56,493	50,741	-	53	47	466,253	-	294,743	171,510	-	63	37
1981	60,378	1053	3.92	-	3.92	-	87,844	-	24,286	63,559	-	28	72	388,958	-	152,154	236,805	-	39	61
1982	26,789	1050	5.10	-	5.10	-	35,792	-	7,670	28,122	-	21	79	179,563	-	43,016	136,547	-	24	76
Louisiana Power and Lt (MSU)																				
1979	153,052	1041	-	.62	.62	100.0	197,308	-	37,905	159,403	-	19	81	192,337	-	96,781	95,556	-	50	50
1980	137,417	1039	-	1.26	1.26	100.0	176,983	-	34,227	142,756	-	19	81	298,145	-	124,503	173,642	-	42	58
1981	141,163	1040	-	1.78	1.78	100.0	166,651	-	19,818	146,833	-	12	88	343,121	-	92,012	251,109	-	27	73
1982	147,887	1048	-	2.48	2.48	100.0	156,715	-	1,706	155,009	-	1	99	374,690	-	7,943	366,747	-	2	98
Louisville Gas and Elec																				
1979	661	1025	1.68	1.57	1.67	6.0	67,743	66,628	211	903	99	0	1	95,039	92,580	986	1,472	97	1	2
1980	1,804	1025	2.18	-	2.18	-	78,962	76,747	365	1,850	97	0	2	98,543	92,376	2,231	3,936	94	2	4
1981	2,492	1025	2.62	-	2.62	-	73,324	70,607	163	2,554	96	0	3	97,264	89,522	1,211	6,531	92	1	7
1982	1,596	1025	3.44	-	3.44	-	77,034	74,986	413	1,636	97	1	2	108,722	100,414	2,820	5,488	92	3	5
Lower Colorado River Authority																				
1979	28,417	1035	-	2.30	2.30	100.0	60,834	30,961	444	29,409	51	1	48	124,273	57,200	1,740	65,332	46	1	53
1980	18,791	1006	-	2.61	2.61	100.0	82,183	62,967	314	18,903	77	0	23	181,201	130,422	1,819	48,961	72	1	27
1981	13,219	1004	-	3.40	3.40	100.0	92,535	79,112	148	13,275	85	0	14	233,579	187,608	1,026	44,945	80	0	19
1982	14,033	990	-	4.15	4.15	100.0	86,841	72,857	94	13,890	84	0	16	244,528	185,709	623	58,195	76	0	24
Lubbock Power and Lt Dept																				
1979	7,947	1016	2.09	-	2.09	-	8,238	-	166	8,071	-	2	98	17,160	-	571	16,589	-	3	97
1980	8,598	1036	2.55	-	2.55	-	8,911	-	-	8,911	-	-	100	21,890	-	-	21,890	-	-	100
1981	8,483	1039	2.95	-	2.95	-	8,827	-	15	8,812	-	0	100	25,102	-	110	24,991	-	0	100
1982	6,771	1031	3.49	-	3.49	-	7,101	-	121	6,980	-	2	98	24,253	-	639	23,614	-	3	97

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Madison Gas and Elec																			
1979	199	54.3	12070	9.5	3.2	37.19	36.46	36.86	-	-	-	-	-	-	-	27	-	138000	25.72
1980	169	32.1	11671	10.6	2.9	39.35	36.82	37.63	-	-	-	-	-	-	-	2	-	138000	34.60
1981	63	43.8	11565	10.2	2.6	40.55	39.16	39.77	-	-	-	-	-	-	-	-	-	-	-
1982	76	13.0	10938	8.7	1.4	35.67	42.37	41.50	-	-	-	-	-	-	-	2	-	138000	38.97
Manitowoc Pub Utils																			
1979	58	-	11713	13.0	1.0	-	47.70	47.70	-	-	-	-	-	-	-	-	-	-	-
1980	67	8.7	11680	12.0	1.0	48.31	47.20	47.29	-	-	-	-	-	-	-	-	-	-	-
1981	57	-	11917	11.4	1.4	-	53.25	53.25	-	-	-	-	-	-	-	-	-	-	-
1982	63	-	12225	10.2	1.7	-	57.41	57.41	-	-	-	-	-	-	-	-	-	-	-
Marquette Bd of Lt and Power																			
1979	128	100.0	12910	8.5	1.5	38.80	-	38.80	-	-	-	-	-	-	-	-	-	-	-
1980	73	100.0	12890	8.7	1.5	42.88	-	42.88	-	-	-	-	-	-	-	-	-	-	-
1981	68	100.0	12579	10.4	1.3	49.46	-	49.46	-	-	-	-	-	-	-	-	-	-	-
1982	151	100.0	10803	8.2	1.0	43.70	-	43.70	-	-	-	-	-	-	-	-	-	-	-
Marshall Mun Utils																			
1979	11	45.5	11000	12.0	3.9	25.52	25.52	25.52	-	-	-	-	-	-	-	-	-	-	-
1980	2	100.0	11000	12.0	3.9	24.20	-	24.20	-	-	-	-	-	-	-	-	-	-	-
1981	4	100.0	12000	7.6	2.4	36.60	-	36.60	-	-	-	-	-	-	-	-	-	-	-
1982	35	100.0	11557	8.3	2.8	33.93	-	33.93	-	-	-	-	-	-	-	-	-	-	-
Marshfield Elec and Wtr Dept																			
1979	73	100.0	12048	8.1	2.6	41.08	-	41.08	-	-	-	-	-	-	-	1	-	140000	17.91
1980	45	100.0	12237	7.8	2.4	46.08	-	46.08	-	-	-	-	-	-	-	-	-	-	-
1981	36	100.0	12175	7.9	2.2	49.81	-	49.81	-	-	-	-	-	-	-	-	-	-	-
1982	54	100.0	12084	8.2	2.4	52.45	-	52.45	-	-	-	-	-	-	-	-	-	-	-
Massachusetts Mun Wlsale E Co																			
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104	-	139650	41.08
Maui Elec																			
1979	-	-	-	-	-	-	-	-	480	100.0	150045	1.3	18.05	-	18.05	246	33.9	139000	24.33
1980	-	-	-	-	-	-	-	-	484	95.4	150577	1.4	23.35	33.73	23.83	329	40.5	139541	33.85
1981	-	-	-	-	-	-	-	-	522	100.0	152208	1.9	28.79	-	28.79	469	47.3	138926	42.40
1982	-	-	-	-	-	-	-	-	439	100.0	151983	1.9	29.04	-	29.04	393	47.2	138668	43.52
Mcpherson Bd of Pub Utils																			
1979	-	-	-	-	-	-	-	-	25	-	150660	1.0	-	13.04	13.04	6	19.2	129067	24.19
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	129200	24.63
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	129200	34.24
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	129200	41.79
Medina Elec Coop																			
1979	-	-	-	-	-	-	-	-	[1] 0	100.0	144000	.6	7.89	-	7.89	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Menasha Elec and Wtr Utils																			
1979	40	100.0	12461	8.5	2.1	41.26	-	41.26	-	-	-	-	-	-	-	-	-	-	-
1980	26	100.0	12358	7.9	2.0	45.75	-	45.75	-	-	-	-	-	-	-	-	-	-	-
1981	22	100.0	12515	7.8	2.0	49.37	-	49.37	-	-	-	-	-	-	-	-	-	-	-
1982	24	100.0	12431	8.3	2.0	52.93	-	52.93	-	-	-	-	-	-	-	-	-	-	-
Metropolitan Edison (GPS)																			
1979	1,358	33.0	12665	10.5	1.8	34.29	34.38	34.35	-	-	-	-	-	-	-	187	-	136357	24.39
1980	1,169	67.9	12672	10.7	1.8	39.34	35.50	38.11	-	-	-	-	-	-	-	81	-	136446	34.86
1981	1,461	60.5	12627	10.6	1.9	43.14	45.12	43.92	-	-	-	-	-	-	-	68	-	137245	42.34
1982	1,127	69.6	12730	10.1	1.8	49.15	46.95	48.48	-	-	-	-	-	-	-	53	-	137213	41.37
Michigan St University																			
1979	165	69.3	12479	9.6	.6	40.62	41.07	40.67	-	-	-	-	-	-	-	-	-	-	-
1980	156	100.0	12257	10.1	.6	43.89	-	43.89	-	-	-	-	-	-	-	-	-	-	-
1981	133	24.7	11896	13.4	1.0	46.55	51.88	50.57	-	-	-	-	-	-	-	-	-	-	-
1982	159	-	12493	9.8	.8	-	52.92	52.92	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Madison Gas and Elec																				
1979	2,911	1006	2.15	-	2.15	-	7,896	4,813	155	2,928	61	2	37	14,304	7,349	687	6,268	51	5	44
1980	2,014	1000	2.88	-	2.88	-	5,961	3,938	9	2,014	66	0	34	12,203	6,348	55	5,800	52	0	48
1981	1,011	994	3.54	-	3.54	-	2,462	1,457	-	1,005	59	-	41	6,084	2,505	-	3,579	41	-	59
1982	1,024	1000	4.10	-	4.10	-	2,702	1,667	12	1,024	62	0	38	7,442	3,162	78	4,202	42	1	56
Manitowoc Pub Utils																				
1979	-	-	-	-	-	-	1,366	1,366	-	-	100	-	-	2,781	2,781	-	-	100	-	-
1980	-	-	-	-	-	-	1,556	1,556	-	-	100	-	-	3,150	3,150	-	-	100	-	-
1981	-	-	-	-	-	-	1,353	1,353	-	-	100	-	-	3,023	3,023	-	-	100	-	-
1982	-	-	-	-	-	-	1,542	1,542	-	-	100	-	-	3,620	3,620	-	-	100	-	-
Marquette Bd of Lt and Power																				
1979	-	-	-	-	-	-	3,310	3,310	-	-	100	-	-	4,974	4,974	-	-	100	-	-
1980	-	-	-	-	-	-	1,895	1,895	-	-	100	-	-	3,152	3,152	-	-	100	-	-
1981	-	-	-	-	-	-	1,703	1,703	-	-	100	-	-	3,349	3,349	-	-	100	-	-
1982	-	-	-	-	-	-	3,265	3,265	-	-	100	-	-	6,603	6,603	-	-	100	-	-
Marshall Mun Utils																				
1979	994	1000	1.47	-	1.47	-	1,236	242	-	994	20	-	80	1,746	281	-	1,465	16	-	84
1980	1,090	1000	2.11	-	2.11	-	1,134	44	-	1,090	4	-	96	2,349	48	-	2,301	2	-	98
1981	903	1000	2.46	-	2.46	-	999	96	-	903	10	-	90	2,370	146	-	2,223	6	-	94
1982	364	1000	3.44	-	3.44	-	1,173	809	-	364	69	-	31	2,440	1,187	-	1,253	49	-	51
Marshfield Elec and Wtr Dept																				
1979	130	1018	2.49	1.59	2.47	1.5	1,897	1,761	3	133	93	0	7	3,334	3,003	9	323	90	0	10
1980	96	1009	3.16	-	3.16	-	1,195	1,098	-	97	92	-	8	2,371	2,068	-	303	87	-	13
1981	35	1007	3.65	-	3.65	-	912	877	-	36	96	-	4	1,922	1,793	-	129	93	-	7
1982	18	1012	4.01	-	4.01	-	1,322	1,304	-	18	99	-	1	2,903	2,830	-	73	97	-	3
Massachusetts Mun Wlsale E Co																				
1982	2,362	1012	4.32	-	4.32	-	2,999	-	610	2,389	-	20	80	14,470	-	4,272	10,198	-	30	70
Maui Elec																				
1979	-	-	-	-	-	-	4,460	-	4,460	-	-	100	-	14,647	-	14,647	-	-	100	-
1980	-	-	-	-	-	-	4,992	-	4,992	-	-	100	-	22,682	-	22,682	-	-	100	-
1981	-	-	-	-	-	-	6,077	-	6,077	-	-	100	-	34,935	-	34,935	-	-	100	-
1982	-	-	-	-	-	-	5,094	-	5,094	-	-	100	-	29,863	-	29,863	-	-	100	-
Mcpherson Bd of Pub Utils																				
1979	1,537	965	1.32	-	1.32	-	1,676	-	193	1,483	-	11	89	2,498	-	475	2,024	-	19	81
1980	616	976	1.58	-	1.58	-	661	-	60	601	-	9	91	1,247	-	271	976	-	22	78
1981	360	958	1.81	-	1.81	-	372	-	27	345	-	7	93	824	-	171	652	-	21	79
1982	736	950	2.25	-	2.25	-	742	-	43	699	-	6	94	1,992	-	334	1,658	-	17	83
Medina Elec Coop																				
1979	2,429	1069	-	2.44	2.44	100.0	2,599	-	1	2,597	-	0	100	5,936	-	2	5,934	-	0	100
1980	2,302	1060	-	2.80	2.80	100.0	2,440	-	-	2,440	-	-	100	6,439	-	-	6,439	-	-	100
1981	973	1033	-	3.49	3.49	100.0	1,005	-	-	1,005	-	-	100	3,395	-	-	3,395	-	-	100
1982	2,157	1065	-	4.40	4.40	100.0	2,298	-	-	2,298	-	-	100	9,491	-	-	9,491	-	-	100
Menasha Elec and Wtr Utils																				
1979	-	-	-	-	-	-	988	988	-	-	100	-	-	1,636	1,636	-	-	100	-	-
1980	-	-	-	-	-	-	638	638	-	-	100	-	-	1,181	1,181	-	-	100	-	-
1981	-	-	-	-	-	-	547	547	-	-	100	-	-	1,079	1,079	-	-	100	-	-
1982	-	-	-	-	-	-	594	594	-	-	100	-	-	1,265	1,265	-	-	100	-	-
Metropolitan Edison (GPS)																				
1979	369	1006	3.22	-	3.22	-	35,839	34,398	1,069	371	96	3	1	52,394	46,651	4,555	1,188	89	9	2
1980	1,603	1021	3.71	-	3.71	-	31,720	29,618	465	1,637	93	1	5	53,299	44,532	2,827	5,940	84	5	11
1981	2,321	1016	3.84	-	3.84	-	39,644	36,895	390	2,359	93	1	6	75,931	64,163	2,862	8,905	85	4	12
1982	389	1027	4.71	-	4.71	-	29,399	28,692	307	400	98	1	1	58,674	54,633	2,206	1,835	93	4	3
Michigan St University																				
1979	110	1000	2.57	2.71	2.61	22.9	4,222	4,112	-	110	97	-	3	6,987	6,700	-	287	96	-	4
1980	59	1000	2.48	2.87	2.72	62.1	3,677	3,618	-	59	98	-	2	6,996	6,836	-	160	98	-	2
1981	105	1000	3.25	3.67	3.30	10.8	3,269	3,164	-	105	97	-	3	7,069	6,724	-	345	95	-	5
1982	38	1000	3.84	4.28	4.07	51.9	4,003	3,965	-	38	99	-	1	8,552	8,399	-	153	98	-	2

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Minden, City of																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	-	138000	24.55
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	138000	34.55
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	138000	39.30
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	138000	43.53
Minnesota Power and Lt																			
1979	2,784	100.0	8683	9.2	0.9	17.68	-	17.68	407	100.0	151132	1.7	16.39	-	16.39	-	-	-	-
1980	3,235	100.0	8713	8.9	.9	16.20	-	16.20	304	100.0	151100	1.7	29.54	-	29.54	-	-	-	-
1981	3,486	93.3	8660	8.8	.9	17.49	16.88	17.45	49	100.0	151235	1.7	34.68	-	34.68	1	2.4	137000	48.49
1982	2,932	100.0	8593	9.1	.8	19.46	-	19.46	-	-	-	-	-	-	-	8	-	138000	41.79
Minnkota Power Coop																			
1979	3,887	100.0	6722	7.5	.7	4.36	-	4.36	-	-	-	-	-	-	-	50	-	140000	23.16
1980	3,865	100.0	6635	8.1	.6	5.27	-	5.27	-	-	-	-	-	-	-	52	-	140000	35.69
1981	3,601	100.0	6537	8.1	.6	5.86	-	5.86	-	-	-	-	-	-	-	53	-	140000	43.30
1982	2,984	100.0	6614	7.7	.6	6.58	-	6.58	-	-	-	-	-	-	-	43	-	140000	42.14
Mississippi Power (SC)																			
1979	[1] 2,120	77.0	11805	10.5	1.6	41.48	33.24	39.58	178	97.0	147415	1.6	16.41	12.15	16.28	157	46.8	142629	23.07
1980	2,951	73.3	11933	10.0	1.8	46.65	36.30	43.89	32	1.3	148275	2.5	20.95	23.36	23.33	19	37.5	137956	35.41
1981	2,165	78.0	11966	9.4	1.3	60.77	40.43	56.29	5	-	148290	2.5	-	28.14	28.14	43	90.4	138116	42.20
1982	2,919	73.2	12024	9.1	1.5	66.03	42.18	59.64	-	-	-	-	-	-	-	14	-	137778	40.76
Mississippi Pwr and Lt (MSU)																			
1979	-	-	-	-	-	-	-	-	9,673	90.8	150023	2.5	13.66	14.28	13.71	43	.4	140152	18.83
1980	-	-	-	-	-	-	-	-	5,012	98.2	150128	2.6	19.08	18.92	19.08	26	.5	135340	27.76
1981	10	100.0	12798	9.6	.7	60.97	-	60.97	2,633	100.0	151487	2.7	24.08	-	24.08	22	.8	136053	37.75
1982	0	100.0	11001	8.4	.6	59.35	-	59.35	284	100.0	151354	2.8	24.25	-	24.25	26	8.3	134594	36.80
Missouri Power and Lt																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	140000	29.51
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	140000	24.18
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	140000	37.74
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	140000	41.08
Missouri Pub Serv																			
1979	816	100.0	11282	11.6	3.3	26.39	-	26.39	-	-	-	-	-	-	-	25	-	138119	40.83
1980	736	60.8	10844	10.7	3.1	31.23	31.51	31.34	-	-	-	-	-	-	-	30	-	137335	33.32
1981	904	72.8	10935	10.9	3.1	34.76	42.91	36.97	-	-	-	-	-	-	-	25	-	138594	41.77
1982	860	100.0	10834	11.2	3.3	37.85	-	37.85	-	-	-	-	-	-	-	-	-	-	-
Monongahela Power (APS)																			
1979	9,210	92.2	12421	11.6	2.1	29.79	28.99	29.73	-	-	-	-	-	-	-	84	-	141000	27.03
1980	9,573	95.4	12618	10.8	2.4	32.03	29.20	31.90	-	-	-	-	-	-	-	84	-	141000	37.46
1981	9,543	93.7	12560	11.1	2.5	35.66	39.29	35.89	-	-	-	-	-	-	-	103	-	141000	42.89
1982	[1] 11,105	94.7	12679	10.3	2.5	39.54	40.72	39.60	-	-	-	-	-	-	-	116	-	141000	42.42
Montana Power Co																			
1979	3,207	100.0	8720	8.8	.7	5.75	-	5.75	-	-	-	-	-	-	-	15	-	148810	16.05
1980	3,071	100.0	8683	8.7	.8	7.04	-	7.04	-	-	-	-	-	-	-	-	-	-	-
1981	3,129	100.0	8665	8.5	.7	8.32	-	8.32	-	-	-	-	-	-	-	-	-	-	-
1982	2,424	100.0	8645	8.5	.7	9.25	-	9.25	-	-	-	-	-	-	-	-	-	-	-
Montana-Dakota Utils																			
1979	768	100.0	6783	7.6	.6	8.45	-	8.45	-	-	-	-	-	-	-	8	-	132000	22.08
1980	815	100.0	6906	7.8	.7	10.07	-	10.07	-	-	-	-	-	-	-	11	-	132000	27.77
1981	1,706	100.0	6866	7.9	.7	11.19	-	11.19	-	-	-	-	-	-	-	28	-	136018	44.61
1982	2,325	100.0	6899	7.9	.8	11.84	-	11.84	-	-	-	-	-	-	-	26	-	137567	42.06
Montaup Elec																			
1979	-	-	-	-	-	-	-	-	1,531	100.0	148685	2.1	15.98	-	15.98	[3] 11	.7	133730	29.05
1980	-	-	-	-	-	-	-	-	1,791	80.4	149303	2.0	24.03	18.85	23.02	-	-	-	-
1981	-	-	-	-	-	-	-	-	1,355	100.0	150344	2.1	28.75	-	28.75	[3] 10	.8	132764	42.15
1982	-	-	-	-	-	-	-	-	1,504	100.0	150174	2.1	25.99	-	25.99	-	-	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Minden, City of																				
1979	145	1000	2.06	-	2.06	-	374	-	229	145	-	61	39	1,268	-	969	299	-	76	24
1980	444	1000	2.25	-	2.25	-	449	-	5	444	-	1	99	1,030	-	31	999	-	3	97
1981	940	975	2.77	-	2.77	-	1,004	-	87	917	-	9	91	3,190	-	589	2,601	-	18	82
1982	542	1003	3.40	-	3.40	-	546	-	3	543	-	0	100	1,862	-	20	1,842	-	1	99
Minnesota Power and Lt																				
1979	23	1000	2.20	2.81	2.25	8.4	50,954	48,338	2,593	23	95	5	0	55,962	49,223	6,688	51	88	12	0
1980	3	1000	3.03	3.19	3.10	42.3	58,313	56,381	1,930	3	97	3	0	61,422	52,430	8,984	8	85	15	0
1981	5	1000	3.21	3.87	3.34	19.5	60,697	60,376	316	5	99	1	0	62,601	60,839	1,744	18	97	3	0
1982	3	1000	4.07	-	4.07	-	50,444	50,393	48	3	100	0	0	57,429	57,070	347	13	99	1	0
Minnkota Power Coop																				
1979	-	-	-	-	-	-	52,546	52,252	294	-	99	1	-	18,120	16,960	1,160	-	94	6	-
1980	-	-	-	-	-	-	51,594	51,289	304	-	99	1	-	22,228	20,382	1,846	-	92	8	-
1981	-	-	-	-	-	-	47,389	47,077	312	-	99	1	-	23,401	21,106	2,296	-	90	10	-
1982	-	-	-	-	-	-	39,722	39,471	252	-	99	1	-	21,446	19,643	1,803	-	92	8	-
Mississippi Power (SC)																				
1979	7,986	1054	-	1.86	1.86	100.0	60,507	50,044	2,044	8,419	83	3	14	105,314	83,899	6,522	14,893	80	6	14
1980	8,948	1040	-	2.06	2.06	100.0	80,035	70,421	311	9,303	88	0	12	149,351	129,500	1,427	18,425	87	1	12
1981	8,173	1030	-	2.35	2.35	100.0	60,512	51,819	275	8,418	86	0	14	143,032	121,889	1,924	19,219	85	1	13
1982	4,962	1037	-	3.82	3.82	100.0	75,433	70,208	82	5,144	93	0	7	193,656	174,124	575	18,957	90	0	10
Mississippi Pwr and Lt (MSU)																				
1979	48,852	1001	-	1.73	1.73	100.0	110,095	-	61,203	48,892	-	56	44	217,947	-	133,475	84,472	-	61	39
1980	79,647	1014	-	2.13	2.13	100.0	112,544	-	31,751	80,793	-	28	72	266,075	-	96,345	169,730	-	36	64
1981	61,948	1014	-	2.64	2.64	100.0	79,954	256	16,877	62,821	0	21	79	228,600	610	64,230	163,760	0	28	72
1982	74,671	1022	-	3.18	3.18	100.0	78,258	11	1,948	76,300	0	2	97	245,362	30	7,819	237,513	0	3	97
Missouri Power and Lt																				
1979	-	-	-	-	-	-	18	-	18	-	-	100	-	89	-	89	-	-	100	-
1980	-	-	-	-	-	-	44	-	44	-	-	100	-	179	-	179	-	-	100	-
1981	-	-	-	-	-	-	10	-	10	-	-	100	-	64	-	64	-	-	100	-
1982	-	-	-	-	-	-	10	-	10	-	-	100	-	70	-	70	-	-	100	-
Missouri Pub Serv																				
1979	1,447	1006	1.44	-	1.44	-	20,014	18,416	143	1,455	92	1	7	24,631	21,537	1,009	2,085	87	4	8
1980	1,220	997	2.23	-	2.23	-	17,351	15,961	174	1,217	92	1	7	26,790	23,062	1,002	2,727	86	4	10
1981	417	1023	2.79	-	2.79	-	20,350	19,778	146	426	97	1	2	35,644	33,435	1,048	1,161	94	3	3
1982	254	1013	4.03	-	4.03	-	18,887	18,630	-	257	99	-	1	33,565	32,540	-	1,024	97	-	3
Monongahela Power (APS)																				
1979	86	1000	2.77	-	2.77	-	229,378	228,794	498	86	100	0	0	276,340	273,828	2,275	237	99	1	0
1980	132	1000	2.99	-	2.99	-	242,210	241,581	497	132	100	0	0	308,901	305,366	3,141	393	99	1	0
1981	218	1000	4.48	-	4.48	-	240,564	239,738	608	218	100	0	0	347,873	342,493	4,403	977	98	1	0
1982	131	1000	4.15	-	4.15	-	282,412	281,591	690	131	100	0	0	445,270	439,785	4,940	545	99	1	0
Montana Power Co																				
1979	1,744	1084	-	2.28	2.28	100.0	57,915	55,929	94	1,892	97	0	3	22,650	18,426	241	3,983	81	1	18
1980	4,074	1049	-	4.06	4.06	100.0	57,601	53,328	-	4,272	93	-	7	38,180	21,630	-	16,550	57	-	43
1981	2,046	1075	-	4.23	4.23	100.0	56,427	54,228	-	2,200	96	-	4	34,691	26,029	-	8,661	75	-	25
1982	285	1191	-	1.71	1.71	100.0	42,251	41,912	-	339	99	-	1	22,919	22,433	-	486	98	-	2
Montana-Dakota Utils																				
1979	6	984	1.63	-	1.63	-	10,743	10,696	42	6	100	0	0	6,842	6,665	168	9	97	2	0
1980	8	976	1.88	-	1.88	-	11,333	11,264	62	8	99	1	0	8,532	8,209	308	15	96	4	0
1981	6	984	3.01	-	3.01	-	23,590	23,423	161	6	99	1	0	20,366	19,088	1,258	19	94	6	0
1982	37	1038	4.33	-	4.33	-	32,272	32,081	153	38	99	0	0	28,809	27,538	1,110	160	96	4	1
Montaup Elec																				
1979	-	-	-	-	-	-	9,623	-	9,623	-	-	100	-	24,798	-	24,798	-	-	100	-
1980	-	-	-	-	-	-	11,231	-	11,231	-	-	100	-	41,220	-	41,220	-	-	100	-
1981	-	-	-	-	-	-	8,614	-	8,614	-	-	100	-	39,396	-	39,396	-	-	100	-
1982	-	-	-	-	-	-	9,485	-	9,485	-	-	100	-	39,077	-	39,077	-	-	100	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Moorhead Pub Serv Dept																			
1979	162	100.0	7007	7.6	0.6	12.30	-	12.30	-	-	-	-	-	-	-	1	-	140000	25.09
1980	87	100.0	7071	7.5	.6	14.50	-	14.50	-	-	-	-	-	-	-	-	-	-	-
1981	28	100.0	7048	8.3	.8	16.61	-	16.61	-	-	-	-	-	-	-	1	-	140000	41.98
1982	1	100.0	7048	8.3	.8	17.90	-	17.90	-	-	-	-	-	-	-	-	-	-	-
Muscatine Power and Water																			
1979	339	71.7	10890	9.1	2.6	28.42	27.76	28.24	-	-	-	-	-	-	-	-	-	-	-
1980	212	100.0	11053	10.3	3.1	30.28	-	30.28	-	-	-	-	-	-	-	-	-	-	-
1981	272	54.5	11073	10.6	3.0	31.91	31.95	31.93	-	-	-	-	-	-	-	-	-	-	-
1982	383	100.0	11462	8.3	3.1	38.78	-	38.78	-	-	-	-	-	-	-	-	-	-	-
Narragansett Elec Co(NEES)																			
1979	-	-	-	-	-	-	-	-	1,120	84.5	147848	0.9	20.22	17.46	19.79	-	-	-	-
1980	-	-	-	-	-	-	-	-	1,381	-	149705	.9	-	24.97	24.97	-	-	-	-
1981	-	-	-	-	-	-	-	-	1,214	8.1	149654	1.1	25.09	30.52	30.08	-	-	-	-
1982	-	-	-	-	-	-	-	-	980	27.8	149648	1.1	29.97	28.51	28.92	-	-	-	-
Natchitoches, City of																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	134980	21.50
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	134980	40.31
Nebraska Pub Power Sys																			
1979	1,918	84.5	9519	5.7	.5	15.44	38.48	19.01	74	-	151900	1.2	-	14.48	14.48	184	71.2	137992	23.77
1980	1,873	94.4	9768	5.5	.5	22.12	43.39	23.32	23	-	151900	1.2	-	20.01	20.01	61	72.9	137638	36.83
1981	2,200	99.4	9200	5.2	.4	18.92	55.10	19.15	-	-	-	-	-	-	-	76	-	138139	43.02
1982	3,392	96.5	9041	5.3	.4	17.57	37.90	18.28	-	-	-	-	-	-	-	111	-	138021	38.76
Nevada Power																			
1979	1,108	79.1	11521	11.2	.6	34.25	32.61	33.91	86	-	146421	.6	-	18.08	18.08	81	48.5	138485	28.86
1980	942	-	11501	11.1	.5	-	35.71	35.71	17	-	147000	.5	-	29.06	29.06	53	76.3	143579	33.67
1981	893	-	11508	10.9	.5	-	39.60	39.60	-	-	-	-	-	-	-	15	-	138000	30.52
1982	1,086	-	11572	10.5	.5	-	43.19	43.19	-	-	-	-	-	-	-	-	-	-	-
New England Power (NEES)																			
1979	2	100.0	13502	9.5	2.6	62.78	-	62.78	18,410	87.5	149268	2.1	16.28	12.66	15.83	10	.1	137144	23.09
1980	633	-	13376	7.3	1.2	-	52.06	52.06	14,792	96.5	149644	2.1	22.92	21.31	22.86	37	.2	138557	36.81
1981	1,044	66.8	13065	8.9	1.3	64.28	64.66	64.41	13,547	85.6	149984	2.1	28.82	27.55	28.64	38	.3	137736	42.84
1982	2,701	71.4	13150	7.5	1.3	65.87	66.06	65.93	7,754	75.8	150002	2.1	25.21	24.78	25.11	18	.2	137714	41.03
New Mexico Elec Serv																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Orleans Pub Serv (MSU)																			
1979	-	-	-	-	-	-	-	-	1,756	-	148175	1.3	-	13.77	13.77	2	.1	138031	24.48
1980	-	-	-	-	-	-	-	-	478	-	149179	1.5	-	22.84	22.84	3	.6	137787	31.86
1981	-	-	-	-	-	-	-	-	42	-	149274	1.5	-	29.42	29.42	8	16.4	137646	34.71
1982	-	-	-	-	-	-	-	-	695	-	151410	1.5	-	23.30	23.30	1	.2	137604	36.08
New Ulm, Pub Utils Comm																			
1979	78	100.0	12504	8.2	2.5	41.45	-	41.45	-	-	-	-	-	-	-	1	-	138000	22.02
1980	41	100.0	12500	8.2	2.5	44.62	-	44.62	-	-	-	-	-	-	-	9	-	138000	35.22
1981	29	100.0	12500	7.8	1.9	48.84	-	48.84	-	-	-	-	-	-	-	-	-	-	-
1982	53	100.0	12481	7.8	1.9	50.69	-	50.69	-	-	-	-	-	-	-	-	-	-	-
New York State Elec and Gas																			
1979	2,405	62.2	11483	17.9	1.6	27.94	28.10	28.00	-	-	-	-	-	-	-	-	-	-	-
1980	2,417	58.6	11642	17.4	1.7	31.75	30.46	31.22	-	-	-	-	-	-	-	-	-	-	-
1981	2,637	41.8	11500	17.6	1.8	33.90	37.14	35.79	-	-	-	-	-	-	-	-	-	-	-
1982	2,528	50.1	11812	16.2	1.6	39.02	42.22	40.62	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Moorhead Pub Serv Dept																				
1979	-	-	-	-	-	-	2,276	2,268	7	-	100	0	-	2,022	1,991	32	-	98	2	-
1980	-	-	-	-	-	-	1,225	1,225	-	-	100	-	-	1,256	1,256	-	-	100	-	-
1981	-	-	-	-	-	-	400	396	3	-	99	1	-	492	467	25	-	95	5	-
1982	-	-	-	-	-	-	10	10	-	-	100	-	-	13	13	-	-	100	-	-
Muscatine Power and Water																				
1979	-	-	-	-	-	-	7,391	7,391	-	-	100	-	-	9,582	9,582	-	-	100	-	-
1980	-	-	-	-	-	-	4,690	4,690	-	-	100	-	-	6,426	6,426	-	-	100	-	-
1981	-	-	-	-	-	-	6,031	6,031	-	-	100	-	-	8,695	8,695	-	-	100	-	-
1982	-	-	-	-	-	-	8,771	8,771	-	-	100	-	-	14,836	14,836	-	-	100	-	-
Narragansett Elec Co(NEES)																				
1979	1,337	1046	2.58	-	2.58	-	8,354	-	6,955	1,399	-	83	17	25,623	-	22,168	3,455	-	87	13
1980	-	-	-	-	-	-	8,683	-	8,683	-	-	100	-	34,481	-	34,481	-	-	100	-
1981	2,602	1022	3.34	-	3.34	-	10,291	-	7,631	2,660	-	74	26	45,220	-	36,522	8,699	-	81	19
1982	607	1020	4.04	-	4.04	-	6,980	-	6,156	824	-	88	12	31,587	-	28,324	3,263	-	90	10
Natchitoches, City of																				
1979	924	1019	2.31	2.50	2.35	18.0	944	-	2	941	-	0	100	2,177	-	9	2,168	-	0	100
1980	1,329	1000	2.85	-	2.85	-	1,329	-	-	1,329	-	-	100	3,794	-	-	3,794	-	-	100
1981	1,053	1000	3.56	-	3.56	-	1,053	-	-	1,053	-	-	100	3,747	-	-	3,747	-	-	100
1982	683	1000	3.98	-	3.98	-	684	-	1	683	-	0	100	2,725	-	7	2,718	-	0	100
Nebraska Pub Power Sys																				
1979	1,785	1033	1.47	-	1.47	-	39,899	36,515	1,540	1,844	92	4	5	44,536	38,458	5,450	2,628	82	12	6
1980	838	1039	1.75	-	1.75	-	37,959	36,592	498	869	96	1	2	47,849	43,679	2,703	1,467	91	6	3
1981	129	1022	2.41	-	2.41	-	41,055	40,485	439	131	99	1	0	45,699	42,139	3,252	309	92	7	1
1982	378	1030	2.94	-	2.94	-	62,375	61,340	645	390	98	1	1	67,436	62,009	4,313	1,114	92	6	2
Nevada Power																				
1979	19,950	1080	-	2.17	2.17	100.0	48,068	25,520	1,002	21,545	53	2	45	84,689	37,557	3,900	43,231	44	5	51
1980	18,923	1075	-	2.55	2.55	100.0	42,441	21,672	423	20,347	51	1	48	84,218	33,645	2,271	48,302	40	3	57
1981	22,312	1070	-	2.88	2.88	100.0	44,529	20,564	84	23,881	46	0	54	100,050	35,383	443	64,224	35	0	64
1982	6,442	1066	-	3.97	3.97	100.0	31,999	25,130	-	6,869	79	-	21	72,480	46,893	-	25,586	65	-	35
New England Power (NEES)																				
1979	-	-	-	-	-	-	115,527	54	115,473	-	0	100	-	291,725	126	291,599	-	0	100	-
1980	-	-	-	-	-	-	110,127	16,947	93,181	-	15	85	-	372,534	32,978	339,555	-	9	91	-
1981	-	-	-	-	-	-	112,848	27,290	85,558	-	24	76	-	456,687	67,268	389,619	-	15	85	-
1982	-	-	-	-	-	-	120,003	71,049	48,954	-	59	41	-	373,510	178,097	195,413	-	48	52	-
New Mexico Elec Serv																				
1979	7,187	1030	2.28	-	2.28	-	7,406	-	-	7,406	-	-	100	16,378	-	-	16,378	-	-	100
1980	7,611	1017	2.70	-	2.70	-	7,941	-	-	7,941	-	-	100	21,124	-	-	21,124	-	-	100
1981	8,147	1019	3.07	-	3.07	-	8,302	-	-	8,302	-	-	100	25,000	-	-	25,000	-	-	100
1982	7,263	1037	3.61	-	3.61	-	7,531	-	-	7,531	-	-	100	26,232	-	-	26,232	-	-	100
New Orleans Pub Serv (MSU)																				
1979	34,844	1049	2.34	2.54	2.49	76.4	47,499	-	10,938	36,561	-	23	77	111,012	-	24,225	86,788	-	22	78
1980	44,061	1046	2.50	3.00	2.65	69.8	49,114	-	3,008	46,106	-	6	94	136,476	-	10,995	125,481	-	8	92
1981	46,706	1051	3.19	3.98	3.74	69.5	49,383	-	311	49,072	-	1	99	176,153	-	1,523	174,630	-	1	99
1982	36,568	1053	3.94	4.23	4.09	51.7	42,949	-	4,426	38,523	-	10	90	165,833	-	16,234	149,599	-	10	90
New Ulm, Pub Utils Comm																				
1979	625	1000	1.71	-	1.71	-	2,579	1,951	3	625	76	0	24	4,312	3,234	11	1,067	75	0	25
1980	772	1000	1.98	-	1.98	-	1,843	1,020	50	772	55	3	42	3,655	1,821	306	1,528	50	8	42
1981	742	1000	2.56	-	2.56	-	1,472	730	-	742	50	-	50	3,326	1,426	-	1,900	43	-	57
1982	491	1000	3.19	-	3.19	-	1,807	1,316	-	491	73	-	27	4,243	2,676	-	1,566	63	-	37
New York State Elec and Gas																				
1979	-	-	-	-	-	-	55,236	55,236	-	-	100	-	-	67,354	67,354	-	-	100	-	-
1980	-	-	-	-	-	-	56,284	56,284	-	-	100	-	-	75,458	75,458	-	-	100	-	-
1981	-	-	-	-	-	-	60,656	60,656	-	-	100	-	-	94,376	94,376	-	-	100	-	-
1982	-	-	-	-	-	-	59,724	59,724	-	-	100	-	-	102,680	102,680	-	-	100	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Niagra-Mohawk Power																			
1979	3,009	59.9	12782	9.4	1.8	38.80	35.78	37.59	9,062	90.9	148775	2.2	18.04	24.69	18.64	5	0.1	137500	28.43
1980	2,993	61.2	12830	9.3	1.8	41.83	38.06	40.36	9,690	81.0	147114	1.4	27.81	27.66	27.78	[3] 17	.2	134618	34.16
1981	3,035	67.6	12792	9.6	1.8	48.76	42.36	46.69	10,252	100.0	147782	1.8	31.57	-	31.57	-	-	-	-
1982	3,130	67.9	12824	9.7	1.9	50.93	45.75	49.27	6,233	100.0	148051	1.8	30.27	-	30.27	[3] 19	.3	135289	44.91
Northern Indiana Pub Serv																			
1979	5,345	99.2	10881	10.6	1.9	33.98	30.44	33.95	-	-	-	-	-	-	-	434	-	139876	24.15
1980	4,798	97.7	10826	10.3	1.8	38.66	30.78	38.48	-	-	-	-	-	-	-	392	-	140421	34.48
1981	5,150	97.9	10627	10.0	1.5	46.28	37.16	46.09	-	-	-	-	-	-	-	407	-	139295	45.14
1982	4,170	98.0	10891	9.1	1.6	54.56	37.77	54.23	-	-	-	-	-	-	-	271	-	139048	39.71
Northern Michigan Elec Coop																			
1979	106	100.0	12414	7.6	1.7	42.05	-	42.05	-	-	-	-	-	-	-	-	-	-	-
1980	132	100.0	12648	7.2	1.7	45.04	-	45.04	-	-	-	-	-	-	-	-	-	-	-
1981	112	84.9	12406	8.5	1.7	48.88	52.20	49.38	-	-	-	-	-	-	-	-	-	-	-
1982	130	100.0	12544	7.2	1.7	53.93	-	53.93	-	-	-	-	-	-	-	-	-	-	-
Northern States Power																			
1979	[1] 8,932	98.8	8938	9.3	.9	16.97	24.16	17.06	37	-	151000	.9	-	14.07	14.07	337	90.0	139789	27.46
1980	[1] 7,964	99.3	8962	9.5	1.0	18.68	30.54	18.77	21	-	151000	.5	-	19.46	19.46	507	96.0	139571	34.01
1981	[1] 7,394	100.0	8969	9.0	.9	20.07	25.42	20.07	-	-	-	-	-	-	-	-	-	-	-
1982	[1] 7,398	99.9	8992	8.9	.9	22.90	16.35	22.90	-	-	-	-	-	-	-	-	-	-	-
Ohio Edison																			
1979	7,106	33.5	12057	11.7	2.8	29.65	30.20	30.01	-	-	-	-	-	-	-	524	-	138133	25.38
1980	7,505	17.6	12237	10.4	2.1	35.33	34.94	35.01	-	-	-	-	-	-	-	342	-	138307	33.52
1981	6,474	16.2	12072	10.9	2.3	40.50	36.80	37.40	-	-	-	-	-	-	-	170	-	138310	46.21
1982	6,302	19.5	12213	10.4	2.3	44.43	37.40	38.77	-	-	-	-	-	-	-	134	-	137897	50.41
Ohio Power (AEP)																			
1979	16,237	92.7	10287	15.5	3.3	28.14	21.58	27.66	-	-	-	-	-	-	-	-	-	-	-
1980	16,086	97.7	10621	14.7	3.2	32.04	27.86	31.94	-	-	-	-	-	-	-	-	-	-	-
1981	13,964	95.6	10494	14.0	3.0	36.11	35.40	36.08	-	-	-	-	-	-	-	-	-	-	-
1982	13,314	99.1	10859	13.6	3.2	38.97	27.77	38.87	-	-	-	-	-	-	-	-	-	-	-
Ohio Valley Elec Coop																			
1979	3,159	56.9	11188	14.2	3.8	27.08	19.28	23.71	-	-	-	-	-	-	-	-	-	-	-
1980	2,732	78.4	12043	9.9	3.9	29.95	22.48	28.34	-	-	-	-	-	-	-	-	-	-	-
1981	2,632	69.2	11760	11.1	3.8	36.32	24.87	32.80	-	-	-	-	-	-	-	-	-	-	-
1982	3,065	82.3	12016	9.6	3.7	36.92	25.89	34.97	-	-	-	-	-	-	-	-	-	-	-
Oklahoma Gas and Elec																			
1979	3,418	100.0	8714	5.0	.4	19.10	-	19.10	38	-	148141	1.9	-	13.90	13.90	58	60.1	137541	31.03
1980	5,045	100.0	8754	4.9	.4	20.21	-	20.21	-	-	-	-	-	-	-	16	-	141986	31.58
1981	5,036	100.0	8800	4.8	.4	23.20	-	23.20	26	-	160000	.1	-	24.71	24.71	19	42.0	140000	39.71
1982	5,278	100.0	8845	5.0	.4	25.88	-	25.88	-	-	-	-	-	-	-	-	-	-	-
Omaha Pub Power Dist																			
1979	2,021	64.6	9507	6.9	.7	20.22	27.05	22.63	-	-	-	-	-	-	-	100	-	138019	34.61
1980	2,560	57.9	9035	7.1	.6	21.43	23.95	22.49	-	-	-	-	-	-	-	22	-	138000	34.77
1981	2,505	75.4	8815	6.5	.5	17.97	29.42	20.79	-	-	-	-	-	-	-	16	-	138000	36.54
1982	2,119	85.5	8700	5.7	.5	20.91	33.72	22.76	-	-	-	-	-	-	-	2	-	138000	38.32
Opelousas Mun Elec Dept																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange and Rockland Utils																			
1979	-	-	-	-	-	-	-	-	6,822	96.9	145853	.3	20.72	14.89	20.54	[3] 4	.1	125551	29.82
1980	-	-	-	-	-	-	-	-	5,701	100.0	147018	.5	28.43	-	28.43	[3] 6	.1	125504	37.03
1981	-	-	-	-	-	-	-	-	5,936	100.0	146779	.5	34.79	-	34.79	[3] 2	.0	125505	48.60
1982	-	-	-	-	-	-	-	-	5,340	100.0	147374	.5	31.67	-	31.67	-	-	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Niagra-Mohawk Power																				
1979	-	-	-	-	-	-	133,575	76,923	56,652	-	58	42	-	282,143	113,107	169,036	-	40	60	-
1980	-	-	-	-	-	-	136,767	76,798	59,968	-	56	44	-	390,604	120,812	269,792	-	31	69	-
1981	4,137	1030	3.20	-	3.20	-	145,537	77,645	63,632	4,260	53	44	3	478,573	141,697	323,618	13,258	30	68	3
1982	20,236	1030	3.91	-	3.91	-	139,977	80,276	38,866	20,835	57	28	15	422,899	154,200	189,499	79,199	36	45	19
Northern Indiana Pub Serv																				
1979	2,029	1000	-	2.26	2.26	100.0	120,902	116,323	2,550	2,029	96	2	2	196,574	181,496	10,483	4,595	92	5	2
1980	978	1000	-	2.62	2.62	100.0	107,171	103,883	2,310	978	97	2	1	200,691	184,627	13,502	2,562	92	7	1
1981	4,049	1000	-	3.06	3.06	100.0	115,902	109,471	2,383	4,049	94	2	3	268,142	237,380	18,384	12,377	89	7	5
1982	2,341	1000	-	3.57	3.57	100.0	94,756	90,834	1,581	2,341	96	2	2	245,251	226,151	10,748	8,352	92	4	3
Northern Michigan Elec Coop																				
1979	-	-	-	-	-	-	2,625	2,625	-	-	100	-	-	4,446	4,446	-	-	100	-	-
1980	-	-	-	-	-	-	3,346	3,346	-	-	100	-	-	5,958	5,958	-	-	100	-	-
1981	-	-	-	-	-	-	2,791	2,791	-	-	100	-	-	5,555	5,555	-	-	100	-	-
1982	-	-	-	-	-	-	3,273	3,273	-	-	100	-	-	7,036	7,036	-	-	100	-	-
Northern States Power																				
1979	497	987	1.84	-	1.84	-	162,369	159,663	2,215	491	98	1	0	163,076	152,387	9,774	916	93	6	1
1980	1,169	991	1.97	-	1.97	-	147,022	142,752	3,111	1,159	97	2	1	169,453	149,473	17,678	2,303	88	10	1
1981	499	995	2.47	-	2.47	-	133,134	132,637	-	497	100	-	0	149,616	148,383	-	1,233	99	-	1
1982	320	1013	3.64	-	3.64	-	133,382	133,058	-	324	100	-	0	170,573	169,410	-	1,162	99	-	1
Ohio Edison																				
1979	-	-	-	-	-	-	174,420	171,362	3,059	-	98	2	-	226,613	213,286	13,327	-	94	6	-
1980	-	-	-	-	-	-	185,668	183,682	1,986	-	99	1	-	274,224	262,765	11,459	-	96	4	-
1981	-	-	-	-	-	-	157,290	156,304	986	-	99	1	-	249,948	242,102	7,846	-	97	3	-
1982	-	-	-	-	-	-	154,721	153,946	774	-	99	1	-	251,055	244,315	6,739	-	97	3	-
Ohio Power (AEP)																				
1979	-	-	-	-	-	-	375,212	375,212	-	-	100	-	-	504,437	504,437	-	-	100	-	-
1980	-	-	-	-	-	-	341,715	341,715	-	-	100	-	-	513,783	513,783	-	-	100	-	-
1981	-	-	-	-	-	-	293,069	293,069	-	-	100	-	-	503,789	503,789	-	-	100	-	-
1982	-	-	-	-	-	-	289,173	289,173	-	-	100	-	-	517,490	517,490	-	-	100	-	-
Ohio Valley Elec Coop																				
1979	-	-	-	-	-	-	70,688	70,688	-	-	100	-	-	74,906	74,906	-	-	100	-	-
1980	-	-	-	-	-	-	65,804	65,804	-	-	100	-	-	77,423	77,423	-	-	100	-	-
1981	-	-	-	-	-	-	61,906	61,906	-	-	100	-	-	66,327	66,327	-	-	100	-	-
1982	-	-	-	-	-	-	73,657	73,657	-	-	100	-	-	107,173	107,173	-	-	100	-	-
Oklahoma Gas and Elec																				
1979	165,882	1037	1.94	1.55	1.56	99.5	232,156	59,563	574	172,020	26	0	74	325,590	65,296	2,332	257,962	20	1	79
1980	165,825	1037	1.94	1.72	1.72	99.6	260,389	88,324	107	171,959	34	0	66	387,664	101,952	565	285,147	26	0	74
1981	142,439	1037	1.96	1.94	1.94	99.8	236,633	88,638	287	147,709	37	0	62	394,874	116,834	1,398	276,642	30	0	70
1982	132,549	1037	-	2.12	2.12	100.0	230,817	93,364	-	137,453	40	-	60	417,070	136,590	-	280,481	33	-	67
Omaha Pub Power Dist																				
1979	205	987	1.84	-	1.84	-	39,203	38,420	581	202	98	1	1	49,572	45,728	3,468	376	92	7	1
1980	268	991	2.09	-	2.09	-	46,659	46,265	128	266	99	0	1	58,915	57,585	770	560	98	1	1
1981	241	991	2.78	-	2.78	-	44,499	44,165	95	239	99	0	1	53,359	52,090	598	670	98	1	1
1982	158	994	3.68	-	3.68	-	37,036	36,865	14	157	100	0	0	48,896	48,221	94	581	99	0	1
Opelousas Mun Elec Dept																				
1979	632	1000	2.87	-	2.87	-	632	-	-	632	-	-	100	1,815	-	-	1,815	-	-	100
1980	598	1012	3.08	-	3.08	-	605	-	-	605	-	-	100	1,839	-	-	1,839	-	-	100
1981	865	1000	3.62	-	3.62	-	865	-	-	865	-	-	100	3,129	-	-	3,129	-	-	100
1982	232	1000	4.86	-	4.86	-	232	-	-	232	-	-	100	1,129	-	-	1,129	-	-	100
Orange and Rockland Utils																				
1979	11,803	1030	2.06	-	2.06	-	53,968	-	41,814	12,154	-	77	23	164,608	-	140,284	24,324	-	85	15
1980	19,759	1031	2.53	-	2.53	-	55,603	-	35,232	20,371	-	63	37	212,356	-	162,302	50,054	-	76	24
1981	18,428	1029	2.87	-	2.87	-	55,566	-	36,605	18,962	-	66	34	259,475	-	206,630	52,844	-	80	20
1982	17,068	1028	3.88	-	3.88	-	50,599	-	33,056	17,543	-	65	35	235,360	-	169,154	66,206	-	72	28

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Orlando Utils Comm																			
1979	-	-	-	-	-	-	-	-	3,035	100.0	150044	1.8	17.54	-	17.54	2	0.1	138677	23.80
1980	-	-	-	-	-	-	-	-	2,224	100.0	149363	1.6	23.30	-	23.30	10	.5	135247	30.27
1981	-	-	-	-	-	-	-	-	1,889	100.0	149390	1.5	29.64	-	29.64	1	.0	137863	43.24
1982	-	-	-	-	-	-	-	-	1,007	100.0	149481	1.6	27.86	-	27.86	1	.1	138351	49.70
Orrville Mun Utils																			
1979	109	100.0	11500	9.5	3.5	18.40	-	18.40	-	-	-	-	-	-	-	-	-	-	-
1980	115	100.0	11500	9.5	3.5	23.69	-	23.69	-	-	-	-	-	-	-	-	-	-	-
1981	111	100.0	11517	9.8	3.5	25.64	-	25.64	-	-	-	-	-	-	-	-	-	-	-
1982	92	100.0	12420	9.8	3.5	36.31	-	36.31	-	-	-	-	-	-	-	-	-	-	-
Otter Tail Power																			
1979	2,997	100.0	6309	7.3	.7	8.79	-	8.79	-	-	-	-	-	-	-	38	-	138000	27.43
1980	3,087	100.0	6318	7.9	.7	10.27	-	10.27	-	-	-	-	-	-	-	35	-	138000	37.49
1981	2,972	100.0	6305	7.8	.6	12.54	-	12.54	-	-	-	-	-	-	-	25	-	138000	46.28
1982	2,453	100.0	6290	7.9	.9	15.20	-	15.20	-	-	-	-	-	-	-	12	-	138000	37.84
Owatonna Pub Utils																			
1979	-	-	-	-	-	-	-	-	103	100.0	151010	1.4	14.90	-	14.90	-	-	-	-
1980	-	-	-	-	-	-	-	-	33	100.0	150047	1.8	17.08	-	17.08	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Owensboro Mun Utils																			
1979	984	100.0	11113	9.6	2.9	27.92	-	27.92	-	-	-	-	-	-	-	-	-	-	-
1980	938	100.0	11220	9.4	2.6	31.42	-	31.42	-	-	-	-	-	-	-	-	-	-	-
1981	855	100.0	10898	11.0	2.8	32.40	-	32.40	-	-	-	-	-	-	-	-	-	-	-
1982	1,058	100.0	10704	11.6	2.6	34.14	-	34.14	-	-	-	-	-	-	-	-	-	-	-
Pacific Gas and Elec																			
1979	-	-	-	-	-	-	-	-	[a] 25,332	100.0	147488	.5	19.53	-	19.53	[a] 912	3.5	138296	22.10
1980	-	-	-	-	-	-	-	-	21,811	100.0	147909	.5	30.83	-	30.83	626	2.8	137209	35.09
1981	-	-	-	-	-	-	-	-	9,657	99.4	148694	.5	39.96	25.60	39.87	607	5.9	138648	43.70
1982	-	-	-	-	-	-	-	-	1,943	97.4	147968	.4	36.62	39.80	36.70	103	5.0	137781	38.24
Pacific Power and Lt																			
1979	15,362	98.0	8405	12.1	.6	9.26	5.29	9.16	-	-	-	-	-	-	-	20	-	134225	18.57
1980	16,316	98.1	8491	12.0	.6	11.02	6.19	10.93	-	-	-	-	-	-	-	-	-	-	-
1981	16,317	98.0	8421	12.4	.6	12.88	9.58	12.81	-	-	-	-	-	-	-	-	-	-	-
1982	15,589	100.0	8463	11.6	.6	15.17	-	15.17	-	-	-	-	-	-	-	-	-	-	-
Painesville Elec Lt Dept																			
1979	78	100.0	12537	8.5	2.2	30.97	-	30.97	-	-	-	-	-	-	-	-	-	-	-
1980	89	100.0	12215	9.6	2.7	32.84	-	32.84	-	-	-	-	-	-	-	-	-	-	-
1981	80	100.0	12374	8.3	2.2	35.68	-	35.68	-	-	-	-	-	-	-	-	-	-	-
1982	70	100.0	12314	8.0	2.3	39.43	-	39.43	-	-	-	-	-	-	-	-	-	-	-
Pasadena Water and Power Dept																			
1979	-	-	-	-	-	-	-	-	896	100.0	147380	.3	21.11	-	21.11	-	-	-	-
1980	-	-	-	-	-	-	-	-	158	100.0	147380	.2	31.63	-	31.63	11	6.5	125715	34.21
1981	-	-	-	-	-	-	-	-	15	100.0	147380	.2	37.76	-	37.76	-	-	-	-
1982	-	-	-	-	-	-	-	-	16	100.0	147380	.3	38.81	-	38.81	-	-	-	-
Pella Mun Power and Lt																			
1979	101	-	10029	12.2	3.2	-	24.40	24.40	-	-	-	-	-	-	-	167	-	140000	29.95
1980	77	-	9997	12.5	2.9	-	28.43	28.43	-	-	-	-	-	-	-	0	-	136000	36.92
1981	72	-	10098	10.8	2.6	-	32.66	32.66	-	-	-	-	-	-	-	-	-	-	-
1982	71	10.0	9912	12.1	3.1	32.40	32.62	32.60	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania Elec (GPS)																			
1979	14,981	78.2	11907	17.7	2.0	29.55	26.34	28.85	-	-	-	-	-	-	-	384	-	138757	24.58
1980	15,516	82.7	11980	17.1	2.1	28.90	25.70	28.35	-	-	-	-	-	-	-	390	-	138751	35.10
1981	14,640	73.1	11890	17.0	2.0	31.28	34.03	32.02	-	-	-	-	-	-	-	463	-	138759	44.11
1982	13,903	79.5	11874	17.3	1.9	33.49	33.02	33.39	-	-	-	-	-	-	-	398	-	138653	42.00

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Orlando Utils Comm																				
1979	13,483	1028	1.55	-	1.55	-	33,003	-	19,140	13,863	-	58	42	74,221	-	53,302	20,919	-	72	28
1980	15,513	1029	2.05	-	2.05	-	29,969	-	14,006	15,963	-	47	53	83,896	-	52,114	31,782	-	62	38
1981	15,248	1028	2.64	-	2.64	-	27,534	-	11,955	15,580	-	43	57	96,315	-	56,016	40,299	-	58	42
1982	17,982	1033	3.11	-	3.11	-	24,904	-	6,325	18,579	-	25	75	83,984	-	28,091	55,893	-	33	67
Orrville Mun Utils																				
1979	-	-	-	-	-	-	2,507	2,507	-	-	100	-	-	2,006	2,006	-	-	100	-	-
1980	-	-	-	-	-	-	2,647	2,647	-	-	100	-	-	2,727	2,727	-	-	100	-	-
1981	-	-	-	-	-	-	2,561	2,561	-	-	100	-	-	2,851	2,851	-	-	100	-	-
1982	-	-	-	-	-	-	2,278	2,278	-	-	100	-	-	3,330	3,330	-	-	100	-	-
Otter Tail Power																				
1979	-	-	-	-	-	-	38,023	37,814	209	-	99	1	-	27,318	26,330	988	-	96	4	-
1980	-	-	-	-	-	-	39,212	39,009	203	-	99	1	-	33,024	31,712	1,312	-	96	4	-
1981	-	-	-	-	-	-	37,621	37,473	148	-	100	0	-	38,454	37,274	1,180	-	97	3	-
1982	-	-	-	-	-	-	30,926	30,858	67	-	100	0	-	37,729	37,294	436	-	99	1	-
Owatonna Pub Utils																				
1979	1,105	999	1.67	-	1.67	-	1,756	-	653	1,104	-	37	63	3,379	-	1,534	1,846	-	45	55
1980	1,644	994	1.98	-	1.98	-	1,844	-	210	1,633	-	11	89	3,822	-	571	3,252	-	15	85
1981	1,270	991	2.55	-	2.55	-	1,259	-	-	1,259	-	-	100	3,244	-	-	3,244	-	-	100
1982	732	998	3.31	-	3.31	-	730	-	-	730	-	-	100	2,425	-	-	2,425	-	-	100
Owensboro Mun Utils																				
1979	-	-	-	-	-	-	21,870	21,870	-	-	100	-	-	27,473	27,473	-	-	100	-	-
1980	-	-	-	-	-	-	21,003	21,003	-	-	100	-	-	29,406	29,406	-	-	100	-	-
1981	-	-	-	-	-	-	18,639	18,639	-	-	100	-	-	27,706	27,706	-	-	100	-	-
1982	-	-	-	-	-	-	22,650	22,650	-	-	100	-	-	36,117	36,117	-	-	100	-	-
Pacific Gas and Elec																				
1979	226,556	1060	2.60	-	2.60	-	402,271	-	162,217	240,054	-	40	60	1,104,611	-	514,790	589,821	-	47	53
1980	212,881	1058	4.05	-	4.05	-	364,364	-	139,107	225,257	-	38	62	1,556,606	-	694,419	862,187	-	45	55
1981	293,049	1059	4.53	4.48	4.53	1.5	374,911	-	64,554	310,357	-	17	83	1,743,924	-	415,865	1,328,058	-	24	76
1982	205,771	1054	5.37	-	5.37	-	230,907	-	13,979	216,928	-	6	94	1,188,758	-	83,354	1,105,403	-	7	93
Pacific Power and Lt																				
1979	861	1047	3.05	-	3.05	-	259,243	258,226	115	902	100	0	0	144,051	141,047	378	2,626	98	0	2
1980	917	1049	4.38	-	4.38	-	278,046	277,085	-	961	100	-	0	182,359	178,341	-	4,018	98	-	2
1981	-	-	-	-	-	-	274,808	274,808	-	-	100	-	-	208,992	208,992	-	-	100	-	-
1982	-	-	-	-	-	-	263,870	263,870	-	-	100	-	-	236,500	236,500	-	-	100	-	-
Painesville Elec Lt Dept																				
1979	-	-	-	-	-	-	1,961	1,961	-	-	100	-	-	2,422	2,422	-	-	100	-	-
1980	-	-	-	-	-	-	2,178	2,178	-	-	100	-	-	2,927	2,927	-	-	100	-	-
1981	-	-	-	-	-	-	1,972	1,972	-	-	100	-	-	2,843	2,843	-	-	100	-	-
1982	-	-	-	-	-	-	1,720	1,720	-	-	100	-	-	2,754	2,754	-	-	100	-	-
Pasadena Water and Power Dept																				
1979	1,941	1047	2.62	-	2.62	-	7,577	-	5,544	2,033	-	73	27	24,001	-	18,908	5,093	-	79	21
1980	4,828	1048	3.49	-	3.49	-	6,098	-	1,040	5,058	-	17	83	22,225	-	5,392	16,833	-	24	76
1981	5,051	1049	3.76	4.73	3.80	4.3	5,395	-	94	5,301	-	2	98	19,779	-	576	19,204	-	3	97
1982	3,766	1046	5.24	-	5.24	-	4,035	-	98	3,938	-	2	98	20,352	-	613	19,739	-	3	97
Pelis Mun Power and Lt																				
1979	-	-	-	-	-	-	3,001	2,021	980	-	67	33	-	7,450	2,459	4,991	-	33	67	-
1980	-	-	-	-	-	-	1,545	1,543	2	-	100	0	-	2,207	2,194	13	-	99	1	-
1981	-	-	-	-	-	-	1,456	1,456	-	-	100	-	-	2,355	2,355	-	-	100	-	-
1982	-	-	-	-	-	-	1,412	1,412	-	-	100	-	-	2,322	2,322	-	-	100	-	-
Pennsylvania Elec (GPS)																				
1979	-	-	-	-	-	-	359,002	356,764	2,238	-	99	1	-	441,594	432,155	9,439	-	98	2	-
1980	-	-	-	-	-	-	374,045	371,773	2,273	-	99	1	-	453,550	439,861	13,689	-	97	3	-
1981	238	1000	6.57	-	6.57	-	351,078	348,141	2,698	238	99	1	0	490,763	468,775	20,425	1,563	96	4	0
1982	768	1000	3.88	-	3.88	-	333,237	330,150	2,319	768	99	1	0	483,979	464,279	16,723	2,977	96	3	1

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Pennsylvania Power and Lt																			
1979	[1] 9,864	64.3	12187	14.5	1.8	33.05	26.77	30.81	9,581	100.0	145837	1.0	18.80	-	18.80	527	5.2	138227	21.43
1980	[1] 10,084	65.6	12187	15.0	1.7	36.69	29.73	34.29	9,445	100.0	146629	.9	26.44	-	26.44	440	4.5	137907	33.64
1981	[1] 9,292	61.2	12202	14.9	1.8	42.64	36.29	40.18	7,821	87.3	147205	.9	33.39	33.96	33.46	[3] 436	5.3	137585	41.82
1982	[1] 9,438	87.6	12177	15.2	1.8	44.69	33.71	43.33	5,515	100.0	147906	.9	30.94	-	30.94	[3] 388	6.6	138737	41.31
Pennsylvania Power																			
1979	4,227	65.6	11801	13.6	2.6	26.74	27.67	26.44	-	-	-	-	-	-	-	132	-	136245	24.07
1980	4,947	60.0	11969	13.0	2.9	44.13	31.71	41.64	-	-	-	-	-	-	-	100	-	136932	34.54
1981	5,769	54.4	11882	12.8	2.9	62.02	34.91	49.67	-	-	-	-	-	-	-	205	-	139605	41.85
1982	6,106	54.0	12027	12.7	3.1	57.20	31.42	45.33	-	-	-	-	-	-	-	130	-	138522	40.27
Peru Utils																			
1979	50	80.4	11276	10.5	3.5	29.74	29.07	29.61	-	-	-	-	-	-	-	-	-	-	-
1980	52	95.5	11200	11.2	3.9	30.79	29.06	30.71	-	-	-	-	-	-	-	-	-	-	-
1981	49	100.0	10921	12.5	3.9	29.37	-	29.37	-	-	-	-	-	-	-	-	-	-	-
1982	48	98.6	11118	9.8	3.0	34.10	33.32	34.09	-	-	-	-	-	-	-	-	-	-	-
Philadelphia Elec																			
1979	1,210	71.4	13009	9.1	2.4	36.79	40.00	37.71	9,719	99.2	147168	.5	21.33	14.59	21.27	534	5.2	139063	27.50
1980	1,305	25.8	13079	8.3	1.9	43.18	42.53	42.70	8,978	83.0	148086	.5	29.95	27.79	29.58	922	9.3	139401	33.41
1981	923	18.9	12901	8.7	1.9	46.44	48.22	47.88	5,903	75.8	148262	.4	34.47	32.02	33.88	859	12.7	138970	41.65
1982	1,217	31.2	12943	8.5	1.7	50.07	49.49	49.67	3,034	91.3	148804	.5	31.90	30.58	31.79	517	14.6	139511	40.63
Piqua Mun Power Sys																			
1979	99	1.5	11932	11.5	2.3	25.01	25.94	25.92	-	-	-	-	-	-	-	3	-	140000	31.01
1980	105	5.8	12246	10.0	2.1	29.82	29.03	29.08	-	-	-	-	-	-	-	11	-	140000	34.74
1981	129	.7	11839	11.2	2.2	29.61	31.82	31.81	-	-	-	-	-	-	-	2	-	140000	42.25
1982	125	.2	11815	11.1	2.2	29.80	32.75	32.74	-	-	-	-	-	-	-	1	-	140000	40.10
Plains Elec Gen and Trans Coop																			
1979	-	-	-	-	-	-	-	-	[2] 25	100.0	144853	.5	18.00	-	18.00	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Portland General Elec																			
1979	1	-	10027	3.5	.5	-	34.67	34.67	-	-	-	-	-	-	-	1,302	-	137000	35.87
1980	1,070	100.0	8196	4.9	.3	23.15	-	23.15	-	-	-	-	-	-	-	366	-	137000	37.55
1981	1,164	100.0	8287	5.1	.3	26.29	-	26.29	-	-	-	-	-	-	-	36	-	137000	38.57
1982	1,135	100.0	8306	5.1	.4	28.50	-	28.50	-	-	-	-	-	-	-	16	-	137000	41.56
Potomac Edison Co (APS)																			
1979	238	76.2	11163	16.3	1.0	21.43	23.51	21.93	-	-	-	-	-	-	-	49	-	138027	19.57
1980	373	94.1	12312	14.6	1.0	31.06	25.35	30.72	-	-	-	-	-	-	-	6	-	139154	36.23
1981	242	99.0	12268	15.0	1.0	36.89	35.24	36.87	-	-	-	-	-	-	-	4	-	141000	42.65
1982	233	100.0	12726	13.3	1.0	43.78	-	43.78	-	-	-	-	-	-	-	3	-	141000	42.08
Potomac Elec Power																			
1979	5,701	57.7	12432	11.8	1.4	35.09	38.08	36.36	[2] 6,605	92.2	147090	1.6	18.89	17.54	18.79	958	12.7	138462	24.93
1980	5,870	64.8	12429	12.6	1.6	38.14	39.95	38.78	[2] 4,235	99.1	147137	1.6	26.87	23.78	26.84	843	16.6	138088	35.05
1981	5,147	51.7	12293	12.9	1.7	43.49	47.92	45.63	[2] 1,618	100.0	145928	1.2	32.30	-	32.30	614	27.5	137244	42.28
1982	5,885	62.2	12442	12.2	1.6	48.08	48.29	48.16	[2] 1,823	100.0	148159	1.5	28.69	-	28.69	635	25.8	137786	40.53
Power Authority State of NY																			
1981	-	-	-	-	-	-	-	-	821	82.3	146385	.3	34.61	31.55	34.07	-	-	-	-
1982	-	-	-	-	-	-	-	-	2,843	80.1	146938	.3	33.83	29.81	33.03	-	-	-	-
Pub Serv Co of Colorado																			
1979	6,158	100.0	9896	6.8	.4	15.12	-	15.12	403	100.0	147231	.7	15.07	-	15.07	226	35.9	135506	33.74
1980	5,993	100.0	9716	6.9	.4	17.80	-	17.80	198	98.1	149318	.8	27.48	26.14	27.49	132	39.9	136483	37.29
1981	5,622	100.0	9775	6.9	.4	21.09	-	21.09	32	100.0	149307	.8	27.45	-	27.45	19	37.2	138999	39.09
1982	6,779	97.0	9431	6.7	.4	22.30	30.96	22.56	-	-	-	-	-	-	-	35	-	137036	41.34
Pub Serv Co of Indiana																			
1979	[1] 12,321	87.5	10679	11.3	2.7	22.24	22.75	22.31	-	-	-	-	-	-	-	360	-	137000	23.22
1980	12,157	92.2	10620	11.2	2.6	24.40	20.89	24.13	-	-	-	-	-	-	-	282	-	137000	35.24
1981	9,060	91.6	10662	11.1	2.5	27.76	25.56	27.58	-	-	-	-	-	-	-	246	-	137000	42.60
1982	11,394	95.2	10682	11.0	2.4	30.77	27.23	30.60	-	-	-	-	-	-	-	158	-	137000	40.04

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Pennsylvania Power and Lt																				
1979	-	-	-	-	-	-	302,154	240,409	61,745	-	80	20	-	495,365	303,912	191,453	-	61	39	-
1980	-	-	-	-	-	-	306,508	245,794	60,715	-	80	20	-	610,326	345,825	264,501	-	57	43	-
1981	-	-	-	-	-	-	277,638	226,765	50,874	-	82	18	-	653,301	373,347	279,955	-	57	43	-
1982	-	-	-	-	-	-	266,382	229,862	36,520	-	86	14	-	595,559	408,920	186,638	-	69	31	-
Pennsylvania Power																				
1979	-	-	-	-	-	-	100,510	99,753	757	-	99	1	-	123,390	120,206	3,184	-	97	3	-
1980	-	-	-	-	-	-	119,009	118,434	575	-	100	0	-	209,491	206,037	3,454	-	98	2	-
1981	-	-	-	-	-	-	138,285	137,084	1,201	-	99	1	-	295,062	286,532	8,530	-	97	3	-
1982	-	-	-	-	-	-	147,618	146,863	755	-	99	1	-	282,010	276,786	5,225	-	98	2	-
Peru Utils																				
1979	-	-	-	-	-	-	1,130	1,130	-	-	100	-	-	1,483	1,483	-	-	100	-	-
1980	-	-	-	-	-	-	1,166	1,166	-	-	100	-	-	1,599	1,599	-	-	100	-	-
1981	-	-	-	-	-	-	1,061	1,061	-	-	100	-	-	1,427	1,427	-	-	100	-	-
1982	-	-	-	-	-	-	1,060	1,060	-	-	100	-	-	1,624	1,624	-	-	100	-	-
Philadelphia Elec																				
1979	-	-	-	-	-	-	94,674	31,481	63,193	-	33	67	-	267,064	45,626	221,438	-	17	83	-
1980	-	-	-	-	-	-	95,375	34,137	61,238	-	36	64	-	352,106	55,725	296,381	-	16	84	-
1981	-	-	-	-	-	-	65,587	23,815	41,772	-	36	64	-	279,958	44,195	235,763	-	16	84	-
1982	-	-	-	-	-	-	53,494	31,503	21,991	-	59	41	-	177,889	60,446	117,443	-	34	66	-
Piqua Mun Power Sys																				
1979	-	-	-	-	-	-	2,374	2,358	17	-	99	1	-	2,649	2,561	88	-	97	3	-
1980	-	-	-	-	-	-	2,630	2,566	64	-	98	2	-	3,423	3,046	377	-	89	11	-
1981	-	-	-	-	-	-	3,060	3,051	9	-	100	0	-	4,164	4,098	66	-	98	2	-
1982	-	-	-	-	-	-	2,957	2,950	7	-	100	0	-	4,135	4,087	47	-	99	1	-
Plains Elec Gen and Trans Coop																				
1979	1,703	877	1.91	-	1.91	-	1,649	-	155	1,494	-	9	91	3,713	-	459	3,253	-	12	88
1980	887	870	1.93	-	1.93	-	771	-	-	771	-	-	100	1,713	-	-	1,713	-	-	100
1981	334	867	2.31	-	2.31	-	290	-	-	290	-	-	100	772	-	-	772	-	-	100
1982	58	888	3.19	-	3.19	-	51	-	-	51	-	-	100	185	-	-	185	-	-	100
Portland General Elec																				
1979	2,481	1046	3.56	-	3.56	-	10,108	20	7,492	2,595	0	74	26	55,560	35	46,701	8,823	0	84	16
1980	1,788	972	4.22	-	4.22	-	21,391	17,548	2,104	1,738	82	10	8	46,063	24,781	13,731	7,550	54	30	16
1981	188	1047	4.60	-	4.60	-	19,696	19,291	208	197	98	1	1	32,861	30,601	1,396	865	93	4	3
1982	36	990	5.32	-	5.32	-	18,974	18,848	90	35	99	0	0	33,173	32,332	651	190	97	2	1
Potomac Edison Co (APS)																				
1979	-	-	-	-	-	-	5,598	5,314	284	-	95	5	-	6,178	5,218	960	-	84	16	-
1980	-	-	-	-	-	-	9,224	9,188	36	-	100	0	-	11,682	11,462	221	-	98	2	-
1981	-	-	-	-	-	-	5,981	5,955	26	-	100	0	-	9,119	8,935	184	-	98	2	-
1982	-	-	-	-	-	-	5,935	5,919	16	-	100	0	-	10,293	10,180	114	-	99	1	-
Potomac Elec Power																				
1979	-	-	-	-	-	-	188,124	141,749	46,374	-	75	25	-	355,237	207,266	147,971	-	58	42	-
1980	-	-	-	-	-	-	176,972	145,912	31,060	-	82	18	-	370,867	227,632	143,236	-	61	39	-
1981	-	-	-	-	-	-	139,999	126,540	13,459	-	90	10	-	313,087	234,849	78,239	-	75	25	-
1982	-	-	-	-	-	-	161,462	146,442	15,020	-	91	9	-	361,447	283,408	78,039	-	78	22	-
Power Authority State of NY																				
1981	3,538	1032	4.25	-	4.25	-	8,698	-	5,048	3,650	-	58	42	43,000	-	27,972	15,028	-	65	35
1982	18,492	1031	4.72	5.10	4.72	0.0	36,601	-	17,542	19,059	-	48	52	181,222	-	93,885	87,336	-	52	48
Pub Serv Co of Colorado																				
1979	27,205	992	1.91	-	1.91	-	152,655	121,887	3,778	26,990	80	2	18	158,911	93,129	13,697	52,086	59	9	33
1980	26,457	988	2.65	-	2.65	-	146,578	116,451	1,998	28,129	79	1	19	192,484	106,659	10,360	75,466	55	5	39
1981	10,305	987	3.37	-	3.37	-	120,393	109,912	312	10,170	91	0	8	154,949	118,548	1,624	34,779	77	1	22
1982	2,829	998	3.81	-	3.81	-	130,874	127,852	199	2,823	98	0	2	165,137	152,933	1,429	10,774	93	1	7
Pub Serv Co of Indiana																				
1979	-	-	-	-	-	-	265,214	263,142	2,073	-	99	1	-	283,202	274,840	8,362	-	97	3	-
1980	-	-	-	-	-	-	259,831	258,207	1,624	-	99	1	-	303,261	293,316	9,945	-	97	3	-
1981	-	-	-	-	-	-	194,620	193,203	1,417	-	99	1	-	260,330	249,839	10,491	-	96	4	-
1982	-	-	-	-	-	-	244,315	243,408	907	-	100	0	-	354,955	348,641	6,314	-	98	2	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Pub Serv Co of New Hampshire																			
1979	1,050	97.3	13427	7.8	2.6	41.01	38.41	40.94	4,642	96.3	148653	1.8	16.98	12.16	16.80	[3] 22	0.5	137041	24.64
1980	1,052	90.5	13408	7.8	2.5	42.89	42.58	42.86	3,670	100.0	148762	1.9	23.76	-	23.76	[3] 25	.7	136849	35.06
1981	858	100.0	13476	7.7	2.5	46.23	-	46.23	3,823	93.7	149311	1.9	29.45	25.62	29.21	[3] 47	1.2	137349	43.38
1982	882	98.0	13520	7.9	2.4	50.92	51.94	50.94	2,833	72.7	149935	1.9	26.26	25.17	25.96	[3] 20	.7	137062	41.34
Pub Serv Co of New Mexico																			
1979	2,388	100.0	9276	18.7	.8	13.25	-	13.25	[3] 283	66.3	142890	.4	21.31	15.20	19.25	101	26.3	135427	24.22
1980	3,307	99.4	9193	18.4	.8	15.88	21.95	15.92	[3] 83	100.0	142602	.2	26.04	-	26.04	90	52.0	135256	37.09
1981	4,331	100.0	9563	20.3	.8	16.73	-	16.73	[3] 56	100.0	142355	.2	35.81	-	35.81	98	63.7	136067	43.17
1982	5,071	100.0	9600	20.0	.8	18.67	-	18.67	[3] 118	100.0	142248	.1	34.68	-	34.68	108	47.6	136790	40.13
Pub Serv Co of Oklahoma (CSW)																			
1979	950	100.0	8671	5.8	.4	23.32	-	23.32	-	-	-	-	-	-	-	55	-	134960	27.16
1980	2,838	100.0	8594	6.6	.4	23.69	-	23.69	-	-	-	-	-	-	-	-	-	-	-
1981	2,785	100.0	8275	6.5	.5	26.76	-	26.76	-	-	-	-	-	-	-	-	-	-	-
1982	2,593	100.0	8239	6.0	.4	29.84	-	29.84	-	-	-	-	-	-	-	-	-	-	-
Pub Serv Elec and Gas-NJ																			
1979	1,558	95.5	13206	8.9	1.2	47.49	46.47	47.44	[3] 13,359	100.0	145642	.3	21.21	-	21.21	[3] 906	6.4	137086	24.62
1980	1,732	83.7	13213	8.4	1.2	50.72	47.38	50.17	9,296	99.2	145938	.3	30.68	26.89	30.65	[3] 1,140	10.9	136672	33.26
1981	1,990	80.3	13210	8.0	1.2	56.82	54.43	56.35	[3] 6,669	91.8	146277	.3	35.58	31.80	35.28	[3] 797	10.7	135982	42.11
1982	2,099	69.7	13301	7.6	1.1	60.29	56.47	59.13	[3] 5,393	95.9	146601	.3	33.14	31.20	33.06	[3] 386	6.7	134603	42.14
Puget Sound Power and Lt																			
1979	-	-	-	-	-	-	-	-	[3] 446	-	151648	1.7	-	16.61	16.61	[3] 15	3.2	136323	30.99
1980	-	-	-	-	-	-	-	-	[3] 243	-	151365	1.6	-	22.47	22.47	0	.0	139200	35.33
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67	-	133333	37.38
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Richmond Power and Lt																			
1979	194	57.3	10908	12.2	2.2	29.38	25.28	27.63	-	-	-	-	-	-	-	-	-	-	-
1980	235	55.5	10860	12.1	2.2	32.30	27.55	30.19	-	-	-	-	-	-	-	-	-	-	-
1981	236	69.2	10937	12.2	1.9	36.62	29.04	35.80	-	-	-	-	-	-	-	-	-	-	-
1982	208	91.7	11371	10.7	2.4	41.53	32.47	40.78	-	-	-	-	-	-	-	-	-	-	-
Rochester Dept Pub Utils																			
1979	254	98.3	12406	8.2	2.1	40.55	44.17	40.61	-	-	-	-	-	-	-	4	-	135945	26.56
1980	182	99.0	12458	9.0	2.1	42.99	47.14	43.03	-	-	-	-	-	-	-	2	-	135945	37.92
1981	223	96.5	12415	8.6	2.0	46.34	48.58	46.37	-	-	-	-	-	-	-	-	-	-	-
1982	208	99.3	12330	8.0	2.0	49.41	47.59	49.40	-	-	-	-	-	-	-	-	-	-	-
Rochester Gas and Elec Corp																			
1979	730	49.4	12629	10.2	2.4	36.30	33.04	34.65	782	100.0	149328	1.8	18.22	-	18.22	-	-	-	-
1980	790	47.2	12544	10.5	2.5	38.44	36.77	37.55	642	94.4	149328	2.0	26.30	23.63	26.15	-	-	-	-
1981	799	27.0	12398	11.7	2.5	45.93	42.75	43.61	518	98.0	148627	2.0	33.43	25.56	33.27	-	-	-	-
1982	790	44.2	12770	10.5	2.3	47.92	45.67	46.66	254	-	150825	1.6	-	26.91	26.91	-	-	-	-
Ruston Util Sys																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S Mississippi Elec Pwr Assn																			
1979	578	100.0	11210	17.1	1.5	38.59	-	38.59	311	100.0	145637	2.9	12.50	-	12.50	11	3.5	136433	23.12
1980	725	100.0	12232	10.9	1.1	44.88	-	44.88	16	100.0	143811	2.9	13.85	-	13.85	15	48.7	140116	33.24
1981	753	100.0	12280	10.2	1.0	51.77	-	51.77	-	-	-	-	-	-	-	13	-	138880	43.77
1982	854	100.0	12263	9.7	1.0	56.12	-	56.12	-	-	-	-	-	-	-	4	-	138250	40.42
Salt River Project																			
1979	9,708	100.0	10773	10.2	.4	14.78	-	14.78	[3] 1,955	11.3	151201	.9	18.42	16.84	17.02	818	29.5	140164	29.05
1980	9,182	100.0	10858	10.2	.5	19.06	-	19.06	[3] 386	23.8	150174	.8	31.00	24.15	25.78	327	45.9	139866	37.85
1981	9,170	100.0	10770	10.5	.5	18.93	-	18.93	-	-	-	-	-	-	-	169	-	139699	42.96
1982	9,013	99.4	10916	10.0	.5	22.48	26.04	22.51	-	-	-	-	-	-	-	75	-	140174	43.02

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
Year			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Pub Serv Co of New Hampshire																				
1979	28	1000	2.95	-	2.95	-	57,347	28,207	29,112	28	49	51	0	121,622	43,007	78,532	84	35	65	0
1980	-	-	-	-	-	-	51,295	28,219	23,076	-	55	45	-	133,191	45,103	88,088	-	34	66	-
1981	148	1025	3.53	-	3.53	-	47,525	23,124	24,250	151	49	51	0	153,910	39,662	113,727	521	26	74	0
1982	-	-	-	-	-	-	41,265	23,309	17,957	-	56	44	-	118,292	43,913	74,379	-	37	63	-
Pub Serv Co of New Mexico																				
1979	16,577	1028	2.23	-	2.23	-	63,619	44,308	2,273	17,038	70	4	27	76,517	31,647	7,894	36,976	41	10	48
1980	9,884	1026	2.51	-	2.51	-	71,947	60,794	1,010	10,143	84	1	14	82,971	52,633	5,506	24,832	63	7	30
1981	8,678	1046	2.94	-	2.94	-	92,796	82,825	891	9,079	89	1	10	104,180	72,447	6,212	25,520	70	6	24
1982	3,503	1055	3.71	-	3.71	-	102,393	97,373	1,326	3,695	95	1	4	116,092	94,685	8,424	12,983	82	7	11
Pub Serv Co of Oklahoma (CSW)																				
1979	140,443	1068	-	1.68	1.68	100.0	166,734	16,468	312	149,954	10	0	90	259,985	22,142	1,494	236,349	9	1	91
1980	131,857	1065	-	1.90	1.90	100.0	189,193	48,778	-	140,415	26	-	74	317,325	67,235	-	250,089	21	-	79
1981	114,666	1060	-	1.99	1.99	100.0	167,311	45,763	-	121,548	27	-	73	302,445	73,992	-	228,453	24	-	76
1982	95,747	1058	-	2.15	2.15	100.0	143,985	42,727	-	101,258	30	-	70	282,779	77,376	-	205,403	27	-	73
Pub Serv Elec and Gas-NJ																				
1979	21,414	1045	2.58	-	2.58	-	150,451	41,141	86,935	22,375	27	58	15	434,861	73,905	305,641	55,316	17	70	13
1980	64,075	1037	3.01	-	3.01	-	175,750	45,773	63,525	66,452	26	36	38	602,896	86,903	322,830	193,164	14	54	32
1981	60,364	1039	3.98	-	3.98	-	160,786	52,577	45,519	62,690	33	28	39	621,283	112,137	268,783	240,363	18	43	39
1982	42,526	1034	4.12	-	4.12	-	135,204	55,845	35,393	43,966	41	26	33	493,867	124,142	194,592	175,133	25	39	35
Puget Sound Power and Lt																				
1979	-	-	-	-	-	-	2,923	-	2,923	-	-	100	-	7,859	-	7,859	-	-	100	-
1980	-	-	-	-	-	-	1,544	-	1,544	-	-	100	-	5,458	-	5,458	-	-	100	-
1981	33	1040	5.89	-	5.89	-	412	-	378	34	-	92	8	2,717	-	2,523	194	-	93	7
1982	13	1057	22.77	-	22.77	-	14	-	-	14	-	-	100	299	-	-	299	-	-	100
Richmond Power and Lt																				
1979	-	-	-	-	-	-	4,222	4,222	-	-	100	-	-	5,347	5,347	-	-	100	-	-
1980	-	-	-	-	-	-	5,104	5,104	-	-	100	-	-	7,093	7,093	-	-	100	-	-
1981	-	-	-	-	-	-	5,153	5,153	-	-	100	-	-	8,434	8,434	-	-	100	-	-
1982	-	-	-	-	-	-	4,726	4,726	-	-	100	-	-	8,473	8,473	-	-	100	-	-
Rochester Dept Pub Utils																				
1979	299	1010	1.67	2.01	1.70	10.6	6,636	6,312	22	302	95	0	5	10,941	10,331	101	509	94	1	5
1980	50	997	2.08	2.27	2.25	88.9	4,593	4,529	14	49	99	0	1	8,026	7,823	91	111	97	1	1
1981	56	999	-	3.21	3.21	100.0	5,592	5,536	-	56	99	-	1	10,518	10,339	-	178	98	-	2
1982	69	1005	-	4.27	4.27	100.0	5,209	5,139	-	70	99	-	1	10,591	10,295	-	296	97	-	3
Rochester Gas and Elec Corp																				
1979	-	-	-	-	-	-	23,352	18,446	4,906	-	79	21	-	39,560	25,307	14,253	-	64	36	-
1980	-	-	-	-	-	-	23,843	19,817	4,026	-	83	17	-	46,449	29,664	16,784	-	64	36	-
1981	-	-	-	-	-	-	23,047	19,814	3,232	-	86	14	-	52,078	34,851	17,227	-	67	33	-
1982	-	-	-	-	-	-	21,786	20,177	1,608	-	93	7	-	43,695	36,862	6,833	-	84	16	-
Ruston Util Sys																				
1979	1,799	1069	2.27	-	2.27	-	1,923	-	-	1,923	-	-	100	4,081	-	-	4,081	-	-	100
1980	2,851	1068	2.75	-	2.75	-	3,045	-	-	3,045	-	-	100	7,853	-	-	7,853	-	-	100
1981	3,029	1055	3.11	-	3.11	-	3,196	-	-	3,196	-	-	100	9,434	-	-	9,434	-	-	100
1982	1,843	1057	3.68	-	3.68	-	1,947	-	-	1,947	-	-	100	6,787	-	-	6,787	-	-	100
S Mississippi Elec Pwr Assn																				
1979	3,114	1020	-	2.29	2.29	100.0	18,103	12,961	1,965	3,177	72	11	18	32,414	21,151	4,144	7,119	65	13	22
1980	3,162	1023	-	2.82	2.82	100.0	21,142	17,726	183	3,233	84	1	15	42,137	32,523	713	8,902	77	2	21
1981	3,173	1020	-	3.60	3.60	100.0	21,815	18,499	78	3,237	85	0	15	51,006	38,990	587	11,430	76	1	22
1982	1,876	1007	-	4.10	4.10	100.0	22,858	20,943	26	1,890	92	0	8	55,791	47,918	178	7,695	86	0	14
Salt River Project																				
1979	6,877	1060	1.92	-	1.92	-	235,812	209,166	17,235	9,411	89	7	4	217,560	143,477	57,052	17,031	66	26	8
1980	12,060	1052	2.31	-	2.31	-	216,468	199,401	4,358	12,708	92	2	6	225,306	175,054	22,350	27,901	78	10	12
1981	16,678	1052	2.56	3.62	2.59	3.2	216,278	197,521	995	17,763	91	0	8	224,629	173,600	7,281	43,747	77	3	19
1982	11,243	1059	3.51	3.98	3.63	24.9	209,122	198,771	439	11,911	94	0	6	246,865	202,848	3,210	40,807	82	1	17

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
San Antonio City Pub Secv																			
1979	[1] 2,016	99.9	8367	6.6	0.4	26.29	22.51	26.29	[2] 282	100.0	145484	0.5	12.14	-	12.14	-	-	-	-
1980	3,256	100.0	8397	6.4	.7	27.21	-	27.21	-	-	-	-	-	-	-	-	-	-	-
1981	3,181	100.0	8383	6.1	.3	29.70	-	29.70	-	-	-	-	-	-	-	-	-	-	-
1982	3,050	100.0	8443	5.7	.3	36.51	-	36.51	-	-	-	-	-	-	-	-	-	-	-
San Diego Gas and Elec																			
1979	-	-	-	-	-	-	-	-	10,539	100.0	148131	.4	19.93	-	19.93	146	1.4	139157	19.57
1980	-	-	-	-	-	-	-	-	9,210	100.0	148496	.4	31.97	-	31.97	49	.5	137968	25.27
1981	-	-	-	-	-	-	-	-	8,219	100.0	148575	.4	42.20	-	42.20	[3] 14	.2	137903	41.07
1982	-	-	-	-	-	-	-	-	6,331	100.0	149400	.5	45.54	-	45.54	2	.0	139169	44.32
San Miguel Elec Coop																			
1981	716	-	5684	22.7	2.1	-	11.68	11.68	-	-	-	-	-	-	-	-	-	-	-
1982	2,427	-	5525	27.5	1.9	-	12.95	12.95	-	-	-	-	-	-	-	-	-	-	-
Savannah Elec and Power																			
1979	329	-	12513	10.9	1.2	-	38.52	38.52	1,839	100.0	147840	2.5	17.54	-	17.54	55	2.9	138237	29.90
1980	580	-	12248	11.8	.9	-	39.98	39.98	717	79.4	149126	2.5	21.47	22.75	21.74	7	1.0	137964	34.59
1981	682	-	12167	11.7	1.0	-	46.05	46.05	270	100.0	149733	2.7	26.61	-	26.61	13	4.7	137747	43.36
1982	763	-	12701	10.0	.9	-	48.65	48.65	40	-	149332	2.5	-	23.48	23.48	19	32.3	137034	42.49
Seattle Dept of Ltng																			
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	141000	46.07
Sewer and Water Bd N Orleans																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	139100	16.38
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	139100	35.29
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	139100	39.69
Sierra Pacific Power																			
1979	-	-	-	-	-	-	-	-	1,453	87.9	146606	.7	15.90	19.74	16.36	-	-	-	-
1980	-	-	-	-	-	-	-	-	2,491	42.9	147967	.7	25.63	19.68	22.23	-	-	-	-
1981	337	100.0	11100	9.8	.4	37.91	-	37.91	194	61.4	145740	.6	32.92	23.04	29.11	24	11.1	131336	42.54
1982	716	100.0	11299	8.2	.4	43.39	-	43.39	65	-	150840	.9	-	26.41	26.41	16	16.2	135704	41.48
Sikeston Bd of Mun Utils																			
1981	304	100.0	11238	12.9	2.6	43.37	-	43.37	-	-	-	-	-	-	-	20	-	141000	42.05
1982	262	100.0	11334	13.1	2.7	43.75	-	43.75	-	-	-	-	-	-	-	3	-	141000	42.05
South Carolina Elec and Gas																			
1979	3,041	100.0	12610	9.7	1.4	37.25	31.48	37.25	3,674	100.0	149227	2.1	16.31	-	16.31	96	2.5	138291	22.48
1980	4,039	74.9	12649	9.9	1.5	41.52	35.92	40.11	1,956	100.0	149012	2.1	21.54	-	21.54	76	3.8	137515	33.99
1981	3,992	72.3	12623	10.3	1.7	46.23	45.67	46.08	1,162	100.0	149209	2.1	27.10	-	27.10	92	7.4	137410	42.62
1982	3,861	96.3	12742	9.4	1.5	50.84	45.68	50.65	6	100.0	149500	2.1	26.05	-	26.05	60	68.5	137343	41.13
South Carolina Pub Serv Auth																			
1979	2,256	84.7	12147	11.1	1.3	35.33	36.73	35.54	23	97.0	148150	2.3	15.50	16.02	15.58	54	70.1	140000	25.45
1980	2,897	77.6	12213	11.1	1.3	37.51	37.48	37.50	87	100.0	149112	2.3	21.42	-	21.42	77	46.7	141298	33.06
1981	3,735	83.7	12019	11.6	1.3	41.09	45.51	42.70	182	100.0	148121	2.2	28.61	-	28.61	114	38.5	140000	43.02
1982	3,609	70.8	12081	11.1	1.3	45.43	44.07	45.03	-	-	-	-	-	-	-	48	-	140000	40.76
South Texas Elec Coop Inc																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Southern California Edison																			
1979	3,234	100.0	10884	11.3	.7	19.78	-	19.78	45,548	99.4	145240	.3	18.72	26.86	18.76	[3] 1,797	3.8	121925	18.69
1980	3,573	100.0	10917	10.3	.5	19.87	-	19.87	30,406	100.0	145240	.2	30.41	-	30.41	[3] 1,880	5.8	121865	29.28
1981	3,883	100.0	10915	10.3	.5	19.52	-	19.52	24,027	100.0	145240	.2	41.13	-	41.13	[3] 378	1.5	122899	38.22
1982	4,788	100.0	10893	10.4	.6	19.44	-	19.44	2,926	100.0	145240	.2	42.90	-	42.90	77	2.6	121656	35.37
Southern Illinois Power Coop																			
1979	859	13.1	10266	14.8	3.0	24.57	19.22	19.92	-	-	-	-	-	-	-	-	-	-	-
1980	633	9.6	10048	16.3	2.7	28.44	19.09	19.98	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
San Antonio City Pub Secv																				
1979	24,843	1049	-	2.30	2.30	100.0	61,535	33,743	1,724	26,067	55	3	42	113,658	53,013	3,426	57,218	47	3	50
1980	33,199	1053	-	2.63	2.63	100.0	89,649	54,687	-	34,962	61	-	39	175,953	88,603	-	87,349	50	-	50
1981	30,898	1036	-	3.42	3.42	100.0	85,132	53,342	-	31,790	63	-	37	199,544	94,481	-	105,063	47	-	53
1982	34,886	1022	-	4.17	4.17	100.0	87,149	51,499	-	35,650	59	-	41	256,672	111,364	-	145,308	43	-	57
San Diego Gas and Elec																				
1979	28,346	1047	2.83	-	2.83	-	96,106	-	66,422	29,684	-	69	31	293,155	-	212,890	80,265	-	73	27
1980	38,262	1045	3.34	-	3.34	-	97,700	-	57,725	39,975	-	59	41	423,296	-	295,668	127,627	-	70	30
1981	41,267	1044	3.85	-	3.85	-	94,466	-	51,369	43,097	-	54	46	506,177	-	347,399	158,778	-	69	31
1982	33,738	1044	5.08	-	5.08	-	74,949	-	39,738	35,211	-	53	47	459,869	-	288,376	171,492	-	63	37
San Miguel Elec Coop																				
1981	-	-	-	-	-	-	8,157	8,157	-	-	100	-	-	8,384	8,384	-	-	100	-	-
1982	-	-	-	-	-	-	26,817	26,817	-	-	100	-	-	31,440	31,440	-	-	100	-	-
Savannah Elec and Power																				
1979	1,456	1131	3.16	-	3.16	-	21,608	8,223	11,738	1,646	38	54	8	51,171	12,659	33,907	4,605	25	66	9
1980	1,358	1045	3.10	-	3.10	-	20,157	14,209	4,528	1,420	70	22	7	43,220	23,190	15,815	4,216	54	37	10
1981	1,531	1025	3.82	-	3.82	-	19,946	16,603	1,774	1,569	83	9	8	45,025	31,418	7,759	5,848	70	17	13
1982	1,380	1028	4.23	-	4.23	-	21,154	19,378	357	1,418	92	2	7	44,688	37,117	1,732	5,839	83	4	13
Seattle Dept of Ltng																				
1982	-	-	-	-	-	-	1	-	1	-	-	100	-	8	-	8	-	-	100	-
Sewer and Water Bd N Orleans																				
1979	1,456	1050	-	2.18	2.18	100.0	1,530	-	2	1,528	-	0	100	3,184	-	4	3,180	-	0	100
1980	1,345	1050	-	2.54	2.54	100.0	1,418	-	6	1,412	-	0	100	3,447	-	38	3,409	-	1	99
1981	1,319	1050	-	3.70	3.70	100.0	1,385	-	-	1,385	-	-	100	4,886	-	-	4,886	-	-	100
1982	1,336	1050	-	4.96	4.96	100.0	1,405	-	3	1,403	-	0	100	6,649	-	19	6,630	-	0	100
Sierra Pacific Power																				
1979	17,303	1042	2.77	-	2.77	-	26,967	-	8,947	18,021	-	33	67	71,634	-	23,776	47,858	-	33	67
1980	4,833	1052	3.72	-	3.72	-	20,565	-	15,479	5,087	-	75	25	73,335	-	55,366	17,969	-	75	25
1981	18,685	1082	4.05	-	4.05	-	29,011	7,474	1,323	20,213	26	5	70	95,088	12,763	6,688	75,637	13	7	80
1982	5,437	1071	4.66	-	4.66	-	22,627	16,170	633	5,825	71	3	26	59,297	31,050	2,930	25,317	52	5	43
Sikeston Bd of Mun Utils																				
1981	-	-	-	-	-	-	6,949	6,831	117	-	98	2	-	14,018	13,185	833	-	94	6	-
1982	-	-	-	-	-	-	5,964	5,945	19	-	100	0	-	11,610	11,475	135	-	99	1	-
South Carolina Elec and Gas																				
1979	3,038	1078	2.29	2.05	2.27	7.5	103,553	76,701	23,576	3,275	74	23	3	182,264	113,293	62,077	6,894	62	34	4
1980	3,350	1030	2.35	-	2.35	-	118,312	102,179	12,684	3,449	86	11	3	214,646	162,027	44,733	7,886	75	21	4
1981	3,927	1022	3.30	-	3.30	-	112,610	100,783	7,813	4,013	89	7	4	232,307	183,944	35,417	12,946	79	15	6
1982	366	1028	3.91	-	3.91	-	99,163	98,392	395	376	99	0	0	199,639	195,535	2,671	1,433	98	1	1
South Carolina Pub Serv Auth																				
1979	-	-	-	-	-	-	55,265	54,807	458	-	99	1	-	81,905	80,184	1,721	-	98	2	-
1980	21	1050	2.71	-	2.71	-	71,778	70,756	1,000	22	99	1	0	113,084	108,630	4,397	56	96	4	0
1981	89	1023	3.63	-	3.63	-	91,676	89,783	1,802	92	98	2	0	169,905	159,473	10,107	325	94	6	0
1982	6	1025	4.06	-	4.06	-	87,495	87,203	285	7	100	0	0	164,530	162,531	1,974	26	99	1	0
South Texas Elec Coop Inc																				
1979	993	993	-	2.26	2.26	100.0	986	-	-	986	-	-	100	2,246	-	-	2,246	-	-	100
1980	1,459	993	-	2.56	2.56	100.0	1,448	-	-	1,448	-	-	100	3,729	-	-	3,729	-	-	100
1981	838	1001	-	3.40	3.40	100.0	839	-	-	839	-	-	100	2,846	-	-	2,846	-	-	100
1982	985	1007	-	4.14	4.14	100.0	992	-	-	992	-	-	100	4,076	-	-	4,076	-	-	100
Southern California Edison																				
1979	156,635	1052	2.52	-	2.52	-	522,238	70,395	287,049	164,794	13	55	32	1,347,343	63,981	888,198	395,164	5	66	29
1980	195,822	1048	3.46	-	3.46	-	478,417	78,014	195,102	205,302	16	41	43	1,727,457	70,985	979,740	676,732	4	57	39
1981	243,422	1054	3.97	-	3.97	-	489,833	84,770	148,518	256,545	17	30	52	2,045,251	75,815	1,002,560	966,876	4	49	47
1982	256,784	1053	5.25	-	5.25	-	392,978	104,316	18,242	270,420	27	5	69	1,568,879	93,065	126,239	1,347,555	6	8	86
Southern Illinois Power Coop																				
1979	-	-	-	-	-	-	17,640	17,640	-	-	100	-	-	17,115	17,115	-	-	100	-	-
1980	-	-	-	-	-	-	12,724	12,724	-	-	100	-	-	12,654	12,654	-	-	100	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Southern Illinois Power Coop																			
1981	742	-	10402	15.0	3.1	-	24.32	24.32	-	-	-	-	-	-	-	-	-	-	-
1982	499	-	10025	17.7	3.1	-	21.60	21.60	-	-	-	-	-	-	-	-	-	-	-
Southern Indiana Gas and Elec																			
1979	4,007	99.7	11004	10.6	3.3	22.72	28.30	22.74	-	-	-	-	-	-	-	15	-	138628	18.38
1980	4,279	100.0	10983	10.2	3.3	24.65	-	24.65	-	-	-	-	-	-	-	-	-	-	-
1981	2,082	100.0	10957	10.2	3.2	27.31	-	27.31	-	-	-	-	-	-	-	-	-	-	-
1982	1,848	99.0	11028	9.8	3.4	29.85	29.53	29.85	-	-	-	-	-	-	-	-	-	-	-
Southwestern Elec Pwr (CSW)																			
1979	3,354	100.0	8399	4.9	.3	19.40	-	19.40	[2] 105	24.8	146920	0.6	9.73	15.16	13.82	43	29.0	140000	25.73
1980	5,078	100.0	8411	4.8	.3	20.72	-	20.72	1	-	147400	.6	-	27.10	27.10	48	97.3	140000	35.23
1981	5,070	100.0	8392	4.8	.3	22.63	-	22.63	-	-	-	-	-	-	-	27	-	140000	42.02
1982	6,054	100.0	8352	4.9	.3	26.17	-	26.17	-	-	-	-	-	-	-	53	-	140000	40.05
Southwestern Pub Serv																			
1979	2,089	100.0	8992	6.1	.4	26.41	-	26.41	-	-	-	-	-	-	-	28	-	137702	21.09
1980	2,931	100.0	8837	5.0	.4	26.34	-	26.34	-	-	-	-	-	-	-	6	-	138004	41.46
1981	3,239	100.0	8912	4.8	.4	29.29	-	29.29	-	-	-	-	-	-	-	-	-	-	-
1982	3,831	100.0	8934	4.9	.4	34.55	-	34.55	-	-	-	-	-	-	-	17	-	138065	27.69
Springfield Wtr, Lt & Pwr Dept																			
1979	[1] 907	83.9	10661	9.1	3.3	26.56	21.27	25.71	-	-	-	-	-	-	-	-	-	-	-
1980	[1] 847	98.6	10682	9.9	3.2	27.48	24.96	27.44	-	-	-	-	-	-	-	-	-	-	-
1981	828	100.0	10614	9.6	3.3	27.70	-	27.70	-	-	-	-	-	-	-	-	-	-	-
1982	[1] 730	99.7	10470	9.7	3.2	35.56	15.00	35.51	-	-	-	-	-	-	-	-	-	-	-
Springfield, City Utils of																			
1979	433	99.8	11744	15.4	3.8	27.52	27.50	27.52	-	-	-	-	-	-	-	382	-	138200	29.38
1980	553	88.8	11414	15.3	4.0	35.27	38.96	35.69	-	-	-	-	-	-	-	5	-	138200	37.07
1981	751	89.9	11732	13.9	3.8	41.20	36.05	40.68	-	-	-	-	-	-	-	12	-	138200	39.89
1982	745	100.0	12106	12.2	3.9	42.73	-	42.73	-	-	-	-	-	-	-	-	-	-	-
St Joseph Lt and Power																			
1979	305	93.8	10984	14.1	4.3	29.60	28.62	29.72	135	-	150914	2.6	-	13.35	13.35	-	-	-	-
1980	225	62.9	11757	14.7	4.5	34.35	31.80	33.40	1	-	149888	2.2	-	13.61	13.61	-	-	-	-
1981	114	100.0	12444	14.9	4.7	38.57	-	38.57	-	-	-	-	-	-	-	-	-	-	-
1982	122	97.5	12627	13.7	4.6	41.93	30.49	41.65	10	100.0	149726	1.4	26.25	-	26.25	-	-	-	-
Sunflower Elec Coop Inc																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Superior Water Lt and Power																			
1979	-	-	-	-	-	-	-	-	68	100.0	150604	1.8	15.54	-	15.54	-	-	-	-
1980	-	-	-	-	-	-	-	-	65	100.0	151341	1.8	27.20	-	27.20	-	-	-	-
1981	-	-	-	-	-	-	-	-	6	100.0	152031	1.7	34.17	-	34.17	-	-	-	-
Tallahassee, City of																			
1979	-	-	-	-	-	-	-	-	1,687	100.0	149683	2.1	16.34	-	16.34	12	.7	143918	32.89
1980	-	-	-	-	-	-	-	-	951	100.0	151476	2.3	21.32	-	21.32	-	-	-	-
1981	-	-	-	-	-	-	-	-	685	100.0	152217	2.3	28.25	-	28.25	3	.4	140120	40.74
1982	-	-	-	-	-	-	-	-	356	100.0	152267	2.4	27.20	-	27.20	5	1.4	138500	42.21
Tampa Elec																			
1979	3,802	96.6	11873	9.9	2.2	35.76	36.26	35.78	4,627	100.0	149937	1.0	19.24	-	19.24	138	2.9	135877	32.38
1980	3,847	89.6	11785	10.4	2.4	38.97	42.14	39.30	4,314	100.0	150220	.9	24.31	-	24.31	234	5.1	137364	34.44
1981	3,910	81.5	11778	10.3	2.4	44.55	39.34	43.59	3,740	100.0	150477	1.0	29.97	-	29.97	226	5.7	137439	41.93
1982	3,960	91.3	11883	10.0	2.3	44.73	53.13	45.46	2,473	100.0	151476	1.0	28.33	-	28.33	98	3.8	137923	39.82
Taunton Mun Ltng Plant																			
1979	-	-	-	-	-	-	-	-	503	100.0	149089	2.2	16.68	-	16.68	102	16.8	138466	28.60
1980	-	-	-	-	-	-	-	-	535	100.0	148562	1.9	25.02	-	25.02	54	9.1	138431	35.09
1981	-	-	-	-	-	-	-	-	475	100.0	148949	1.9	31.71	-	31.71	19	3.8	138492	43.42
1982	-	-	-	-	-	-	-	-	315	100.0	150038	1.8	28.62	-	28.62	5	1.5	137656	40.74

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Southern Illinois Power Coop																				
1981	-	-	-	-	-	-	15,446	15,446	-	-	100	-	-	18,056	18,056	-	-	100	-	-
1982	-	-	-	-	-	-	10,003	10,003	-	-	100	-	-	10,779	10,779	-	-	100	-	-
Southern Indiana Gas and Elec																				
1979	216	1008	1.50	-	1.50	-	88,494	88,189	88	217	100	0	0	91,724	91,123	278	324	99	0	0
1980	340	1007	2.17	2.17	2.17	20.3	94,332	93,989	-	343	100	-	0	106,213	105,474	-	739	99	-	1
1981	700	1006	2.65	-	2.65	-	46,329	45,625	-	704	98	-	2	56,724	56,869	-	1,855	97	-	3
1982	91	1009	3.26	-	3.26	-	40,848	40,756	-	92	100	-	0	55,452	55,155	-	297	99	-	1
Southwestern Elec Pwr (CSW)																				
1979	86,999	1001	-	1.13	1.13	100.0	144,348	56,342	900	87,107	39	1	60	165,587	65,077	2,552	97,958	39	2	59
1980	84,132	1004	-	1.26	1.26	100.0	170,188	85,420	279	84,489	50	0	50	212,779	105,238	1,656	105,886	49	1	50
1981	81,362	1000	-	1.36	1.36	100.0	166,634	85,094	158	81,383	51	0	49	226,487	114,741	1,126	110,620	51	0	49
1982	56,953	1025	-	2.34	2.34	100.0	159,803	101,121	312	58,371	63	0	37	293,618	158,462	2,123	133,033	54	1	45
Southwestern Pub Serv																				
1979	90,682	1006	2.16	1.78	1.96	53.2	128,949	37,570	162	91,218	29	0	71	233,274	55,181	591	177,502	24	0	76
1980	85,913	1001	2.54	2.10	2.32	50.2	137,799	51,801	35	85,964	38	0	62	276,764	77,208	249	199,307	28	0	72
1981	81,295	992	2.96	2.25	2.63	46.7	138,386	57,734	-	80,652	42	-	58	308,623	94,857	-	213,766	31	-	69
1982	75,186	994	3.37	2.58	3.01	44.8	143,305	68,452	99	74,754	48	0	52	359,408	132,347	471	226,589	37	0	63
Springfield Wtr, Lt & Pwr Dept																				
1979	-	-	-	-	-	-	19,330	19,330	-	-	100	-	-	23,309	23,309	-	-	100	-	-
1980	-	-	-	-	-	-	18,091	18,091	-	-	100	-	-	23,239	23,239	-	-	100	-	-
1981	-	-	-	-	-	-	17,586	17,586	-	-	100	-	-	22,946	22,946	-	-	100	-	-
1982	-	-	-	-	-	-	15,279	15,279	-	-	100	-	-	25,907	25,907	-	-	100	-	-
Springfield, City Utils of																				
1979	1,722	1014	1.49	-	1.49	-	14,140	10,177	2,219	1,745	72	16	12	25,716	11,922	11,229	2,564	46	44	10
1980	1,186	1014	2.18	-	2.18	-	13,862	12,632	28	1,202	91	0	9	22,509	19,746	178	2,584	88	1	11
1981	382	1015	2.87	-	2.87	-	18,077	17,619	70	388	97	0	2	32,128	30,549	484	1,095	95	2	3
1982	185	1017	4.03	-	4.03	-	18,233	18,045	-	188	99	-	1	32,586	31,842	-	744	98	-	2
St Joseph Lt and Power																				
1979	3,469	970	1.37	-	1.37	-	10,929	6,711	853	3,365	61	8	31	15,628	9,081	1,795	4,752	58	11	30
1980	1,388	988	1.98	-	1.98	-	6,665	5,284	9	1,372	79	0	21	10,272	7,506	19	2,747	73	0	27
1981	507	1022	2.34	-	2.34	-	3,364	2,845	-	519	85	-	15	5,594	4,408	-	1,185	79	-	21
1982	311	1042	3.48	-	3.48	-	3,480	3,091	65	324	89	2	9	6,449	5,098	270	1,081	79	4	17
Sunflower Elec Coop Inc																				
1979	9,920	856	-	1.59	1.59	100.0	8,492	-	-	8,492	-	-	100	15,804	-	-	15,804	-	-	100
1980	8,787	837	-	1.68	1.68	100.0	7,334	-	-	7,334	-	-	100	14,710	-	-	14,710	-	-	100
1981	7,834	793	-	1.61	1.61	100.0	6,211	-	-	6,211	-	-	100	12,617	-	-	12,617	-	-	100
1982	7,661	790	-	1.88	1.88	100.0	6,049	-	-	6,049	-	-	100	14,405	-	-	14,405	-	-	100
Superior Water Lt and Power																				
1979	40	994	1.89	-	1.89	-	469	-	429	40	-	91	9	1,130	-	1,054	76	-	93	7
1980	2	995	2.34	-	2.34	-	419	-	416	2	-	99	1	1,787	-	1,782	5	-	100	0
1981	98	1006	3.00	-	3.00	-	138	-	40	98	-	29	71	508	-	215	293	-	42	58
Tallahassee, City of																				
1979	10,261	1042	1.52	-	1.52	-	21,368	-	10,681	10,687	-	50	50	43,566	-	27,971	15,595	-	64	36
1980	10,838	1045	2.01	-	2.01	-	17,374	-	6,049	11,325	-	35	65	42,090	-	20,272	21,818	-	48	52
1981	10,631	1046	2.54	-	2.54	-	15,517	-	4,399	11,118	-	28	72	46,483	-	19,483	27,000	-	42	58
1982	12,028	1051	3.08	-	3.08	-	14,947	-	2,308	12,640	-	15	85	46,907	-	9,900	37,007	-	21	79
Tampa Elec																				
1979	-	-	-	-	-	-	120,215	90,285	29,930	-	75	25	-	229,520	136,034	93,487	-	59	41	-
1980	-	-	-	-	-	-	119,240	90,669	28,570	-	76	24	-	264,118	151,174	112,944	-	57	43	-
1981	-	-	-	-	-	-	117,037	92,095	24,942	-	79	21	-	292,005	170,416	121,588	-	58	42	-
1982	-	-	-	-	-	-	110,421	94,119	16,303	-	85	15	-	254,017	180,037	73,980	-	71	29	-
Taunton Mun Ltng Plant																				
1979	-	-	-	-	-	-	3,739	-	3,739	-	-	100	-	11,291	-	11,291	-	-	100	-
1980	-	-	-	-	-	-	3,654	-	3,654	-	-	100	-	15,266	-	15,266	-	-	100	-
1981	-	-	-	-	-	-	3,081	-	3,081	-	-	100	-	15,884	-	15,884	-	-	100	-
1982	-	-	-	-	-	-	2,012	-	2,012	-	-	100	-	9,207	-	9,207	-	-	100	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
Tennessee Valley Authority																			
1979	41,336	95.7	11444	13.6	2.5	30.54	28.18	30.44	-	-	-	-	-	-	-	592	-	138462	26.38
1980	35,245	98.9	11848	12.5	2.3	35.31	33.48	35.28	-	-	-	-	-	-	-	561	-	138751	37.73
1981	30,051	97.1	11591	12.7	2.5	39.11	36.66	39.04	-	-	-	-	-	-	-	364	-	138087	48.06
1982	31,972	96.0	11681	11.5	2.3	40.88	28.16	40.37	-	-	-	-	-	-	-	334	-	138074	46.94
Texas Elec Serv(TU)																			
1979	-	-	-	-	-	-	-	-	[2] 93	100.0	142857	0.4	19.04	-	19.04	91	49.5	139524	25.40
1980	-	-	-	-	-	-	-	-	[2] 538	100.0	142857	.5	30.00	-	30.00	39	6.8	139524	35.10
1981	-	-	-	-	-	-	-	-	[2] 210	100.0	142857	.7	39.04	-	39.04	30	12.5	139524	39.79
1982	-	-	-	-	-	-	-	-	[2] 221	100.0	142857	.7	37.24	-	37.24	82	27.1	139524	40.16
Texas Pwr and Lt (TU)																			
1979	-	-	-	-	-	-	-	-	[2] 66	-	145105	.5	-	14.53	14.53	1	1.8	136400	29.21
1980	-	-	-	-	-	-	-	-	[2] 21	-	154000	1.2	-	22.29	22.29	82	79.5	136400	35.48
1981	504	100.0	6773	15.4	1.2	10.24	-	10.24	-	-	-	-	-	-	-	62	-	136400	39.02
1982	457	100.0	6644	14.5	1.2	13.00	-	13.00	[2] 30	-	144881	.7	-	14.94	14.94	178	85.6	136616	37.98
Texas Utils Servs Inc																			
1979	24,802	100.0	6559	11.7	.7	7.58	-	7.58	-	-	-	-	-	-	-	-	-	-	-
1980	27,014	100.0	6361	11.8	.7	8.07	-	8.07	-	-	-	-	-	-	-	-	-	-	-
1981	27,593	100.0	6392	15.3	.7	10.22	-	10.22	-	-	-	-	-	-	-	-	-	-	-
1982	27,173	100.0	6519	14.4	.7	10.95	-	10.95	-	-	-	-	-	-	-	-	-	-	-
Toledo Edison Co																			
1979	1,803	67.6	12654	8.2	1.2	43.12	38.07	41.49	87	100.0	150862	1.2	15.60	-	15.60	40	31.3	139049	26.61
1980	1,791	75.6	12936	7.4	.8	47.73	44.46	46.93	261	18.1	147523	.4	20.97	19.43	19.71	71	21.4	139050	36.17
1981	1,722	74.6	12795	8.1	1.0	51.04	48.74	50.46	47	100.0	146311	.4	29.31	-	29.31	5	9.1	137102	39.22
1982	1,679	83.4	13120	7.1	1.0	56.33	52.84	55.75	-	-	-	-	-	-	-	2	-	136952	30.07
Traverse, City of																			
1979	24	100.0	12763	7.2	.9	45.72	-	45.72	-	-	-	-	-	-	-	-	-	-	-
1980	25	100.0	12836	7.0	.9	46.24	-	46.24	-	-	-	-	-	-	-	-	-	-	-
1981	49	100.0	12707	8.8	1.0	50.67	-	50.67	-	-	-	-	-	-	-	-	-	-	-
1982	46	100.0	12992	7.0	.9	52.95	-	52.95	-	-	-	-	-	-	-	-	-	-	-
Tucson Gas and Elec Co																			
1979	-	-	-	-	-	-	-	-	[2] 820	100.0	146164	.9	18.35	-	18.35	8	1.0	140600	30.19
1980	-	-	-	-	-	-	-	-	[2] 782	100.0	145371	.9	29.33	-	29.33	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Union Elec																			
1979	12,341	95.0	10999	9.5	1.8	23.90	39.24	24.66	443	97.7	153008	1.7	15.89	34.02	16.30	531	54.5	137299	22.13
1980	12,400	94.0	11024	9.5	1.9	26.01	28.29	26.15	378	100.0	151250	1.8	21.96	-	21.96	125	24.9	137000	35.82
1981	10,245	94.1	10827	9.2	1.8	28.28	25.19	28.10	316	100.0	149455	1.8	28.27	-	28.27	89	22.0	137000	42.53
1982	11,262	97.4	11020	9.4	1.9	30.29	22.56	30.09	322	100.0	148863	1.8	27.27	-	27.27	228	41.5	137028	40.55
United Gas Imp Co																			
1979	148	100.0	8951	21.7	.5	15.73	-	15.73	-	-	-	-	-	-	-	-	-	-	-
1980	271	100.0	8778	20.0	.7	20.03	-	20.03	-	-	-	-	-	-	-	-	-	-	-
1981	230	100.0	8635	21.6	.7	19.19	-	19.19	-	-	-	-	-	-	-	-	-	-	-
1982	242	100.0	9052	20.4	.8	22.49	-	22.49	-	-	-	-	-	-	-	-	-	-	-
United Illuminating Co																			
1979	-	-	-	-	-	-	-	-	8,366	100.0	147744	.4	20.05	-	20.05	[2] 11	.1	137572	26.35
1980	-	-	-	-	-	-	-	-	8,404	100.0	147376	.4	29.69	-	29.69	[2] 10	.1	137179	38.25
1981	-	-	-	-	-	-	-	-	7,617	100.0	147601	.5	35.05	-	35.05	[2] 8	.1	136717	44.12
1982	-	-	-	-	-	-	-	-	7,526	100.0	148865	.8	29.37	-	29.37	[2] 8	.1	137141	42.68
United Power Assoc																			
1979	1,087	98.7	7020	10.7	.6	9.68	38.46	10.06	-	-	-	-	-	-	-	14	-	137951	26.93
1980	1,042	100.0	7040	8.7	.7	9.99	-	9.99	-	-	-	-	-	-	-	5	-	137550	35.23
1981	957	100.0	6888	7.9	.6	11.92	-	11.92	-	-	-	-	-	-	-	4	-	137550	45.57
1982	897	99.8	6877	7.9	.7	13.52	25.45	13.55	-	-	-	-	-	-	-	9	-	137550	39.71

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
Tennessee Valley Authority																				
1979	-	-	-	-	-	-	949,534	946,092	3,442	-	100	0	-	1,273,832	1,258,221	15,611	-	99	1	-
1980	-	-	-	-	-	-	824,366	821,096	3,270	-	100	0	-	1,264,761	1,243,589	21,172	-	98	2	-
1981	-	-	-	-	-	-	698,725	696,612	2,113	-	100	0	-	1,190,837	1,173,331	17,506	-	99	1	-
1982	-	-	-	-	-	-	748,835	746,897	1,938	-	100	0	-	1,306,515	1,290,830	15,685	-	99	1	-
Texas Elec Serv(TU)																				
1979	113,740	1053	-	0.74	0.74	100.0	120,863	-	1,091	119,772	-	1	99	88,652	-	4,082	84,570	-	5	95
1980	119,288	1041	-	1.01	1.01	100.0	127,590	-	3,457	124,133	-	3	97	138,059	-	17,508	120,551	-	13	87
1981	117,074	1035	-	2.59	2.59	100.0	122,566	-	1,436	121,130	-	1	99	313,124	-	9,392	303,731	-	3	97
1982	119,389	1035	-	3.76	3.76	100.0	125,347	-	1,807	123,541	-	1	99	460,834	-	11,522	449,311	-	3	97
Texas Pwr and Lt (TU)																				
1979	122,548	1029	2.02	1.57	1.73	64.1	126,546	-	412	126,134	-	0	100	213,528	-	1,001	212,528	-	0	100
1980	139,722	1032	2.28	1.94	2.05	67.1	144,809	-	607	144,201	-	0	100	289,853	-	3,386	286,467	-	1	99
1981	130,692	1032	3.02	2.46	2.88	61.9	142,062	6,828	354	134,881	5	0	95	357,277	5,161	2,411	349,705	1	1	98
1982	120,382	1035	4.00	3.04	3.35	67.9	131,900	6,072	1,201	124,627	5	1	94	416,375	5,940	7,198	403,237	1	2	97
Texas Utils Serve Inc																				
1979	-	-	-	-	-	-	325,332	325,332	-	-	100	-	-	188,011	188,011	-	-	100	-	-
1980	-	-	-	-	-	-	343,679	343,679	-	-	100	-	-	217,998	217,998	-	-	100	-	-
1981	-	-	-	-	-	-	352,748	352,748	-	-	100	-	-	281,929	281,929	-	-	100	-	-
1982	-	-	-	-	-	-	354,296	354,296	-	-	100	-	-	297,446	297,446	-	-	100	-	-
Toledo Edison Co																				
1979	[4] 958	587	1.06	.93	1.03	24.0	46,967	45,621	784	562	97	2	1	78,182	74,783	2,416	984	96	3	1
1980	[4] 257	858	2.10	-	2.10	-	48,592	46,338	2,033	220	95	4	0	92,302	84,046	7,715	540	91	8	1
1981	226	987	3.20	-	3.20	-	44,603	44,063	316	223	99	1	1	89,165	86,879	1,562	725	97	2	1
1982	106	1011	4.44	2.94	4.38	3.5	44,166	44,048	10	108	100	0	0	94,111	93,590	54	466	99	0	0
Traverse, City of																				
1979	485	1031	2.22	-	2.22	-	1,113	613	-	500	55	-	45	2,173	1,097	-	1,075	51	-	49
1980	291	1025	3.14	-	3.14	-	927	629	-	298	68	-	32	2,048	1,133	-	915	55	-	45
1981	-	-	-	-	-	-	1,248	1,248	-	-	100	-	-	2,488	2,488	-	-	100	-	-
1982	21	1020	5.45	-	5.45	-	1,209	1,187	-	22	98	-	2	2,536	2,420	-	116	95	-	5
Tucson Gas and Elec Co																				
1979	18,399	1055	-	2.41	2.41	100.0	24,488	-	5,078	19,410	-	21	79	59,665	-	15,281	44,384	-	26	74
1980	15,912	1060	-	2.68	2.68	100.0	21,634	-	4,775	16,859	-	22	78	65,647	-	22,933	42,715	-	35	65
1981	19,465	1045	-	2.94	2.94	100.0	20,342	-	-	20,342	-	-	100	57,226	-	-	57,226	-	-	100
1982	6,850	1044	-	3.90	3.90	100.0	7,154	-	-	7,154	-	-	100	26,719	-	-	26,719	-	-	100
Union Elec																				
1979	1,286	1035	2.55	-	2.55	-	278,713	271,474	5,909	1,330	97	2	0	326,591	304,336	18,974	3,280	93	6	1
1980	1,861	1035	2.99	-	2.99	-	278,430	273,385	3,120	1,925	98	1	1	342,543	324,209	12,778	5,556	95	4	2
1981	709	1034	3.67	-	3.67	-	225,080	221,851	2,496	733	99	1	0	303,157	287,834	12,718	2,605	95	4	1
1982	646	1036	4.59	-	4.59	-	252,215	248,221	3,325	669	98	1	0	359,868	338,877	18,026	2,966	94	5	1
United Gas Imp Co																				
1979	-	-	-	-	-	-	2,656	2,656	-	-	100	-	-	2,335	2,335	-	-	100	-	-
1980	-	-	-	-	-	-	4,757	4,757	-	-	100	-	-	5,427	5,427	-	-	100	-	-
1981	-	-	-	-	-	-	3,978	3,978	-	-	100	-	-	4,422	4,422	-	-	100	-	-
1982	-	-	-	-	-	-	4,381	4,381	-	-	100	-	-	5,443	5,443	-	-	100	-	-
United Illuminating Co																				
1979	-	-	-	-	-	-	51,978	-	51,978	-	-	100	-	168,029	-	168,029	-	-	100	-
1980	-	-	-	-	-	-	52,079	-	52,079	-	-	100	-	249,913	-	249,913	-	-	100	-
1981	-	-	-	-	-	-	47,264	-	47,264	-	-	100	-	267,352	-	267,352	-	-	100	-
1982	-	-	-	-	-	-	47,100	-	47,100	-	-	100	-	221,379	-	221,379	-	-	100	-
United Power Assoc																				
1979	-	-	-	-	-	-	15,337	15,258	78	-	99	1	-	11,301	10,937	365	-	97	3	-
1980	-	-	-	-	-	-	14,704	14,675	28	-	100	0	-	10,582	10,408	174	-	98	2	-
1981	-	-	-	-	-	-	13,213	13,190	23	-	100	0	-	11,595	11,412	183	-	98	2	-
1982	-	-	-	-	-	-	12,391	12,341	50	-	100	0	-	12,505	12,160	345	-	97	3	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
University of Illinois																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	391	-	138728	23.33
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	138562	34.77
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	138044	41.65
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Upper Peninsula Gen Co																			
1979	2,120	100.0	10538	6.9	0.6	35.46	-	35.46	-	-	-	-	-	-	-	-	-	-	-
1980	1,420	84.0	10529	8.3	.7	34.79	41.19	35.81	-	-	-	-	-	-	-	-	-	-	-
1981	1,677	100.0	9997	7.3	.6	38.95	-	38.95	-	-	-	-	-	-	-	-	-	-	-
1982	920	100.0	9908	7.8	.6	43.05	-	43.05	-	-	-	-	-	-	-	-	-	-	-
Upper Peninsula Power																			
1979	58	100.0	12863	9.0	1.5	41.24	-	41.24	-	-	-	-	-	-	-	-	-	-	-
1980	59	100.0	12832	8.8	1.5	45.09	-	45.09	-	-	-	-	-	-	-	-	-	-	-
1981	53	100.0	12478	10.3	1.5	50.97	-	50.97	-	-	-	-	-	-	-	-	-	-	-
1982	57	100.0	12281	10.8	1.5	59.30	-	59.30	-	-	-	-	-	-	-	-	-	-	-
Utah Power and Lt																			
1979	6,749	100.0	10943	8.8	.5	19.88	-	19.88	163	-	145114	0.4	-	16.11	16.11	110	40.3	140000	27.64
1980	7,548	100.0	10896	9.8	.6	22.60	-	22.60	59	-	150000	.4	-	23.27	23.27	93	61.2	140000	37.16
1981	7,171	98.7	10861	10.1	.5	24.62	44.95	24.88	19	-	150752	.4	-	25.71	25.71	55	74.3	140000	43.21
1982	8,034	95.9	11072	10.0	.5	28.81	36.65	29.13	-	-	-	-	-	-	-	35	-	140000	40.98
Vero Beach Mun Utils																			
1979	-	-	-	-	-	-	-	-	[2] 212	100.0	149198	2.1	17.21	-	17.21	-	-	-	-
1980	-	-	-	-	-	-	-	-	[2] 333	100.0	149864	2.4	23.65	-	23.65	-	-	-	-
1981	-	-	-	-	-	-	-	-	17	100.0	150000	2.5	28.23	-	28.23	-	-	-	-
1982	-	-	-	-	-	-	-	-	7	100.0	150000	2.5	29.79	-	29.79	-	-	-	-
Vineland, City of																			
1979	88	100.0	12570	10.6	1.3	41.33	-	41.33	247	100.0	150225	1.8	18.71	-	18.71	37	12.9	138800	20.85
1980	106	100.0	12782	12.3	1.6	42.44	-	42.44	272	100.0	149752	1.9	25.26	-	25.26	19	6.6	138413	37.59
1981	103	100.0	12582	11.6	1.6	50.08	-	50.08	97	100.0	148969	2.0	32.05	-	32.05	22	18.5	138099	44.30
1982	84	100.0	12930	9.4	1.4	55.81	-	55.81	75	100.0	149646	2.0	27.80	-	27.80	6	7.8	138681	43.18
Virginia Elec and Power																			
1979	4,834	74.8	11872	15.2	1.6	34.95	29.48	33.57	22,888	87.1	149554	1.5	18.03	21.94	18.53	[3] 1,620	6.6	139994	24.45
1980	4,533	69.6	12172	14.1	1.5	37.29	39.87	38.07	14,209	91.3	149425	1.4	24.97	21.94	24.71	[3] 974	6.4	139981	34.94
1981	5,811	38.7	12168	13.2	1.4	38.45	46.65	43.47	5,762	100.0	148672	1.3	31.60	-	31.60	[3] 990	14.7	139934	42.71
1982	6,869	47.1	12275	12.5	1.4	39.15	46.72	43.15	2,841	100.0	147502	1.2	28.92	-	28.92	[3] 405	12.5	139954	40.87
Virginia, Minn Dept of Pub Ut																			
1979	127	100.0	8861	9.8	.9	26.18	-	26.18	-	-	-	-	-	-	-	-	-	-	-
1980	93	100.0	8773	9.8	.9	29.69	-	29.69	-	-	-	-	-	-	-	-	-	-	-
1981	118	100.0	8661	9.8	.9	33.02	-	33.02	-	-	-	-	-	-	-	-	-	-	-
1982	116	100.0	8687	9.8	.9	35.49	-	35.49	-	-	-	-	-	-	-	-	-	-	-
W Illinois Power Coop																			
1979	57	83.0	11263	10.2	3.0	25.86	24.89	25.70	-	-	-	-	-	-	-	4	-	137300	30.03
1980	72	84.7	10845	11.9	3.3	27.01	25.42	26.77	-	-	-	-	-	-	-	7	-	137277	38.99
1981	49	90.7	11048	11.8	3.5	28.87	28.85	28.87	-	-	-	-	-	-	-	1	-	137250	47.94
1982	71	52.9	11063	10.8	3.4	28.05	24.75	26.50	-	-	-	-	-	-	-	3	-	137363	42.62
Washington Water Power Co																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[3] 12	-	135000	28.07
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	131000	36.54
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wellington,city of																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	139600	32.32
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
University of Illinois																				
1979	119	1000	-	2.70	2.70	100.0	2,400	-	2,281	119	-	95	5	9,453	-	9,132	321	-	97	3
1980	1,840	1000	-	2.94	2.94	100.0	1,966	-	126	1,840	-	6	94	6,160	-	751	5,409	-	12	88
1981	1,056	1000	-	3.08	3.08	100.0	1,138	-	83	1,056	-	7	93	3,845	-	594	3,251	-	15	85
1982	344	1000	-	3.89	3.89	100.0	344	-	-	344	-	-	100	1,342	-	-	1,342	-	-	100
Upper Peninsula Gen Co																				
1979	-	-	-	-	-	-	44,680	44,680	-	-	100	-	-	75,179	75,179	-	-	100	-	-
1980	-	-	-	-	-	-	29,903	29,903	-	-	100	-	-	50,852	50,852	-	-	100	-	-
1981	-	-	-	-	-	-	33,528	33,528	-	-	100	-	-	65,323	65,323	-	-	100	-	-
1982	-	-	-	-	-	-	18,228	18,228	-	-	100	-	-	39,605	39,605	-	-	100	-	-
Upper Peninsula Power																				
1979	-	-	-	-	-	-	1,492	1,492	-	-	100	-	-	2,392	2,392	-	-	100	-	-
1980	-	-	-	-	-	-	1,514	1,514	-	-	100	-	-	2,661	2,661	-	-	100	-	-
1981	-	-	-	-	-	-	1,323	1,323	-	-	100	-	-	2,701	2,701	-	-	100	-	-
1982	-	-	-	-	-	-	1,400	1,400	-	-	100	-	-	3,380	3,380	-	-	100	-	-
Utah Power and Lt																				
1979	5,588	962	1.57	-	1.57	-	154,722	147,708	1,640	5,373	95	1	3	148,620	134,200	5,666	8,754	90	4	6
1980	4,103	953	1.94	-	1.94	-	169,311	164,481	919	3,911	97	1	2	183,377	170,596	4,829	7,952	93	3	4
1981	2,416	929	2.21	-	2.21	-	158,458	155,770	444	2,244	98	0	1	186,591	178,390	2,865	5,336	96	2	3
1982	2,198	935	2.41	-	2.41	-	180,164	177,903	206	2,054	99	0	1	240,780	234,042	1,434	5,304	97	1	2
Vero Beach Mun Utils																				
1979	2,965	1056	1.44	1.26	1.43	10.2	4,460	-	1,329	3,131	-	30	70	7,876	-	3,648	4,228	-	46	54
1980	3,184	1056	2.00	-	2.00	-	5,456	-	2,093	3,363	-	38	62	14,238	-	7,866	6,372	-	55	45
1981	3,565	1056	2.53	-	2.53	-	3,872	-	107	3,765	-	3	97	9,487	-	480	9,007	-	5	95
1982	3,299	1056	3.00	-	3.00	-	3,528	-	44	3,484	-	1	99	10,093	-	209	9,885	-	2	98
Vineland, City of																				
1979	-	-	-	-	-	-	4,000	2,225	1,775	-	56	44	-	9,053	3,657	5,396	-	40	60	-
1980	-	-	-	-	-	-	4,539	2,718	1,821	-	60	40	-	12,101	4,513	7,588	-	37	63	-
1981	-	-	-	-	-	-	3,326	2,589	737	-	78	22	-	9,251	5,153	4,098	-	56	44	-
1982	-	-	-	-	-	-	2,683	2,176	507	-	81	19	-	7,048	4,696	2,352	-	67	33	-
Virginia Elec and Power																				
1979	[4] 2,971	1111	2.50	-	2.50	-	271,371	114,778	153,291	3,301	42	56	1	633,535	162,290	463,808	7,437	26	73	1
1980	[4] 2,221	1104	3.19	-	3.19	-	207,702	110,350	94,900	2,452	53	46	1	564,781	172,575	385,123	7,083	31	68	1
1981	[4] 2,134	1097	3.89	-	3.89	-	185,550	141,411	41,798	2,342	76	23	1	485,271	252,629	224,341	8,302	52	46	2
1982	[4] 3,146	1081	4.26	-	4.26	-	192,019	168,636	19,981	3,402	88	10	2	408,498	296,385	98,715	13,398	73	24	3
Virginia, Minn Dept of Pub Ut																				
1979	-	-	-	-	-	-	2,254	2,254	-	-	100	-	-	3,330	3,330	-	-	100	-	-
1980	314	1000	2.04	2.18	2.04	3.1	1,942	1,628	-	314	84	-	16	3,397	2,755	-	642	81	-	19
1981	48	1000	2.75	2.84	2.81	71.8	2,098	2,051	-	48	98	-	2	4,043	3,909	-	134	97	-	3
1982	33	1000	-	3.73	3.73	100.0	2,043	2,010	-	33	98	-	2	4,229	4,106	-	123	97	-	3
W Illinois Power Coop																				
1979	-	-	-	-	-	-	1,314	1,289	24	-	98	2	-	1,598	1,471	127	-	92	8	-
1980	-	-	-	-	-	-	1,593	1,556	38	-	98	2	-	2,174	1,920	254	-	88	12	-
1981	-	-	-	-	-	-	1,079	1,072	7	-	99	1	-	1,459	1,401	58	-	96	4	-
1982	-	-	-	-	-	-	1,579	1,563	17	-	99	1	-	1,996	1,871	125	-	94	6	-
Washington Water Power Co																				
1979	185	1030	3.08	2.60	2.72	74.4	258	-	67	190	-	26	74	837	-	334	503	-	40	60
1980	151	1030	4.09	3.15	3.54	58.8	156	-	1	155	-	1	99	540	-	6	534	-	1	99
1981	414	1030	3.78	-	3.78	-	426	-	-	426	-	-	100	1,565	-	-	1,565	-	-	100
1982	99	1030	3.56	-	3.56	-	102	-	-	102	-	-	100	355	-	-	355	-	-	100
Wellington,city of																				
1979	919	1005	1.40	-	1.40	-	925	-	2	923	-	0	100	1,294	-	12	1,282	-	1	99
1980	730	1005	2.09	-	2.09	-	733	-	-	733	-	-	100	1,523	-	-	1,523	-	-	100
1981	576	1005	2.75	-	2.75	-	579	-	-	579	-	-	100	1,581	-	-	1,581	-	-	100
1982	448	1005	3.80	-	3.80	-	450	-	-	450	-	-	100	1,702	-	-	1,702	-	-	100

See footnotes at end of table.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Coal								Heavy Oil							Light Oil			
	Quantity Delivered		Average Quality			Average Price in Dollars per Ton			Quantity Delivered		Average Quality		Average Price in Dollars per Bbl			Quantity Delivered		Btu per Gal	Av. Price $/Bbl
	1000 Tons	% on Contr	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% on Contr	Btu per Gal	Sulf Wt Pct	Contr	Spot	Total	1000 Bbls	% of Total #2+#6		
West Penn Power (APS)																			
1979	5,528	97.2	12216	13.2	2.3	25.20	25.80	25.21	596	100.0	150690	0.5	19.19	-	19.19	87	12.7	138757	21.48
1980	5,231	98.3	12184	13.2	2.3	27.77	31.80	27.84	310	100.0	148288	.5	27.16	-	27.16	39	11.2	140910	37.15
1981	[1] 4,545	77.7	12173	13.2	2.0	30.74	38.12	32.39	67	100.0	149940	.4	29.76	-	29.76	30	30.9	141000	41.13
1982	4,939	51.6	12792	9.7	2.0	39.30	42.81	41.00	-	-	-	-	-	-	-	29	-	141000	40.52
West Texas Utils (CSW)																			
1979	-	-	-	-	-	-	-	-	[2] 94	11.7	144353	.3	13.89	20.92	20.10	8	7.8	139345	30.14
1980	-	-	-	-	-	-	-	-	[2] 35	-	144613	.4	-	30.23	30.23	2	5.4	140476	34.55
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	[2] 112	-	144832	.5	-	34.80	34.80	14	11.1	137910	41.92
Western Farmers Elec Coop																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	228	100.0	8164	5.1	.4	32.21	-	32.21	-	-	-	-	-	-	-	28	-	139472	42.52
1982	1,173	100.0	8216	5.5	.4	33.86	-	33.86	-	-	-	-	-	-	-	36	-	138819	39.51
Western Mass Elec (NU)																			
1979	-	-	-	-	-	-	-	-	1,259	100.0	149140	2.0	16.72	-	16.72	19	1.5	138021	24.76
1980	-	-	-	-	-	-	-	-	1,356	100.0	149485	2.0	24.22	-	24.22	15	1.1	138793	35.17
1981	-	-	-	-	-	-	-	-	1,049	100.0	149501	2.1	31.25	-	31.25	15	1.4	138857	43.86
1982	-	-	-	-	-	-	-	-	705	100.0	148552	2.1	26.97	-	26.97	11	1.5	138369	42.67
Willmar Mun Utils Comm																			
1979	69	100.0	8869	8.4	.9	26.48	-	26.48	-	-	-	-	-	-	-	-	-	-	-
1980	60	99.8	8772	8.4	.8	29.75	30.08	29.75	-	-	-	-	-	-	-	-	-	-	-
1981	67	100.0	8751	8.4	.8	33.74	-	33.74	-	-	-	-	-	-	-	-	-	-	-
1982	69	100.0	9071	8.3	.9	36.48	-	36.48	-	-	-	-	-	-	-	-	-	-	-
Winfield Mun Elec Lt Dept																			
1979	6	100.0	8500	8.5	.7	23.00	-	23.00	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	140000	34.34
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Winnetka, Village of																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	138000	28.72
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	130000	35.22
1981	0	-	12772	7.6	1.3	-	67.33	67.33	-	-	-	-	-	-	-	1	-	130000	43.52
1982	20	-	12200	7.6	1.3	-	53.65	53.65	-	-	-	-	-	-	-	-	-	-	-
Wisconsin Elec Power																			
1979	4,062	100.0	11703	9.6	2.5	30.30	-	30.30	-	-	-	-	-	-	-	520	-	137748	20.34
1980	5,623	100.0	11266	8.1	2.2	32.08	-	32.08	-	-	-	-	-	-	-	406	-	138449	32.11
1981	5,033	100.0	10458	7.8	1.6	32.75	-	32.75	-	-	-	-	-	-	-	236	-	138891	38.02
1982	5,381	96.0	10811	7.6	1.9	37.23	37.99	37.26	-	-	-	-	-	-	-	158	-	138830	39.80
Wisconsin Power and Lt																			
1979	[1] 5,697	87.7	9282	7.6	1.4	21.15	23.51	21.44	-	-	-	-	-	-	-	8	-	139740	33.58
1980	[1] 5,334	91.1	9183	7.7	1.3	23.81	29.98	24.37	-	-	-	-	-	-	-	-	-	-	-
1981	[1] 4,800	91.5	9242	7.4	1.3	26.41	30.61	26.77	-	-	-	-	-	-	-	-	-	-	-
1982	[1] 4,460	91.2	9280	7.5	1.3	29.55	29.40	29.53	-	-	-	-	-	-	-	-	-	-	-
Wisconsin Pub Serv Corp																			
1979	[1] 1,368	58.2	11614	11.5	3.3	35.34	30.62	33.36	-	-	-	-	-	-	-	294	-	137070	17.17
1980	1,027	79.2	12120	11.3	3.1	40.76	35.66	39.70	-	-	-	-	-	-	-	23	-	138000	34.26
1981	950	53.1	11530	8.7	2.6	44.35	38.40	41.56	-	-	-	-	-	-	-	58	-	138000	37.08
1982	1,366	100.0	10348	7.2	1.4	42.36	-	42.36	-	-	-	-	-	-	-	29	-	138000	39.56
Wyandotte Dept of Muni Serv																			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	44	100.0	13301	10.4	.7	49.14	-	49.14	-	-	-	-	-	-	-	-	-	-	-
1981	144	100.0	12459	11.5	.7	57.63	-	57.63	-	-	-	-	-	-	-	-	-	-	-
1982	70	100.0	12202	10.0	.7	54.65	-	54.65	-	-	-	-	-	-	-	-	-	-	-

[1] May contain Petroleum Coke, Wood Chips, Refuse or Coke Breeze
[2] May contain Fuel Oil No. 4, Fuel Oil No. 5, Crude Oil or Topped Crude
[3] May Contain Jet Fuel or Kerosene
Note: Numbers may not equal the sum of the component parts because of independent rounding.
Source: Federal Power Commission Form 423.

Fuel Receipts to Electric Utilities, 1979-1982

Table 57. Utility Profile of Fossil Fuel Data for Plants of 25-Megawatt Capacity or Larger Including Quantity, Quality, and Cost Information, 1979-1982—Continued

Utility Year	Natural Gas						Total Quantity Delivered							Total Delivered Fuel Cost						
	Amount in 1000 Mcf	Btu per Cu Ft	Average Price in Dollars per Mcf			% Firm/ Total	In Billion Btu				Percent of Total Btu			In $1000				Percent of Fuel Cost		
			Intr-rupt	Firm	Total		Total	Coal	Oil	Gas	Coal	Oil	Gas	Total	Coal	Oil	Gas	Coal	Oil	Gas
West Penn Power (APS)																				
1979	176	1000	2.57	2.38	2.57	0.5	139,498	135,046	4,276	176	97	3	0	153,121	139,376	13,292	453	91	9	0
1980	113	1000	3.16	3.19	3.18	38.9	129,736	127,462	2,161	113	98	2	0	155,829	145,601	9,869	359	93	6	0
1981	54	1000	3.45	3.41	3.41	85.8	111,299	110,644	601	54	99	1	0	150,610	147,188	3,238	183	98	2	0
1982	84	1000	-	3.75	3.75	100.0	126,610	126,355	171	84	100	0	0	203,978	202,495	1,167	316	99	1	0
West Texas Utils (CSW)																				
1979	46,556	1027	2.11	.49	1.75	22.1	48,438	-	617	47,821	-	1	99	83,535	-	2,130	81,405	-	3	97
1980	54,248	1025	2.31	.30	1.91	19.6	55,614	-	224	55,590	-	0	100	104,948	-	1,127	103,821	-	1	99
1981	46,479	1019	3.07	.53	2.47	23.5	47,383	-	-	47,383	-	-	100	114,926	-	-	114,926	-	-	100
1982	46,739	1019	4.18	.20	3.22	24.1	48,373	-	762	47,611	-	2	98	155,060	-	4,484	150,576	-	3	97
Western Farmers Elec Coop																				
1979	23,321	1040	1.95	1.63	1.70	76.4	24,252	-	-	24,252	-	-	100	39,684	-	-	39,684	-	-	100
1980	27,207	1034	2.26	2.03	2.12	62.6	28,134	-	-	28,134	-	-	100	57,588	-	-	57,588	-	-	100
1981	26,889	1048	2.69	1.99	2.42	38.9	32,055	3,722	166	28,167	12	1	88	73,649	7,344	1,204	65,102	10	2	88
1982	17,010	1038	3.10	2.37	2.77	45.1	37,145	19,280	208	17,657	52	1	48	88,280	39,728	1,412	47,140	45	2	53
Western Mass Elec (NU)																				
1979	3,268	1000	2.82	-	2.82	-	11,264	-	7,996	3,268	-	71	29	30,720	-	21,515	9,206	-	70	30
1980	3,310	1000	3.12	-	3.12	-	11,911	-	8,601	3,310	-	72	28	43,709	-	33,374	10,335	-	76	24
1981	3,634	1000	3.70	-	3.70	-	10,310	-	6,676	3,634	-	65	35	46,875	-	33,447	13,427	-	71	29
1982	3,396	1000	4.09	-	4.09	-	7,860	-	4,463	3,396	-	57	43	33,382	-	19,485	13,896	-	58	42
Willmar Mun Utils Comm																				
1979	-	-	-	-	-	-	1,219	1,219	-	-	100	-	-	1,820	1,820	-	-	100	-	-
1980	-	-	-	-	-	-	1,053	1,053	-	-	100	-	-	1,786	1,786	-	-	100	-	-
1981	-	-	-	-	-	-	1,169	1,169	-	-	100	-	-	2,254	2,254	-	-	100	-	-
1982	-	-	-	-	-	-	1,261	1,261	-	-	100	-	-	2,535	2,535	-	-	100	-	-
Winfield Mun Elec Lt Dept																				
1979	706	1129	1.66	1.67	1.66	.6	897	98	-	799	11	-	89	1,446	132	-	1,313	9	-	91
1980	813	1124	2.23	-	2.23	-	915	-	1	914	-	0	100	1,823	-	7	1,816	-	0	100
1981	1,126	1125	2.86	-	2.86	-	1,267	-	-	1,267	-	-	100	3,222	-	-	3,222	-	-	100
1982	860	1125	3.24	-	3.24	-	967	-	-	967	-	-	100	2,785	-	-	2,785	-	-	100
Winnetka, Village of																				
1979	37	1021	2.97	-	2.97	-	50	-	12	38	-	24	76	169	-	59	110	-	35	65
1980	73	1025	3.44	-	3.44	-	79	-	4	74	-	5	95	277	-	28	249	-	10	90
1981	112	1026	4.11	-	4.11	-	129	7	7	115	6	5	89	533	19	55	460	4	10	86
1982	67	1031	4.27	-	4.27	-	554	485	-	69	88	-	12	1,352	1,066	-	287	79	-	21
Wisconsin Elec Power																				
1979	12,289	1013	2.31	-	2.31	-	110,546	95,087	3,006	12,453	86	3	11	162,033	123,088	10,566	28,379	76	7	18
1980	8,511	1010	2.95	-	2.95	-	137,651	126,696	2,361	8,595	92	2	6	218,529	180,368	13,038	25,123	83	6	11
1981	4,009	1012	3.70	-	3.70	-	110,693	105,261	1,376	4,057	95	1	4	188,618	164,838	8,964	14,816	87	5	8
1982	3,090	1016	4.27	-	4.27	-	120,410	116,348	922	3,140	97	1	3	219,998	200,511	6,296	13,191	91	3	6
Wisconsin Power and Lt																				
1979	1,088	995	2.81	2.82	2.81	4.3	106,892	105,762	48	1,082	99	0	1	125,484	122,157	273	3,054	97	0	2
1980	837	998	3.38	-	3.38	-	98,808	97,973	-	835	99	-	1	132,796	129,971	-	2,825	98	-	2
1981	152	1000	4.64	-	4.64	-	88,883	88,732	-	152	100	-	0	129,200	128,496	-	705	99	-	1
1982	98	1007	4.37	-	4.37	-	82,873	82,774	-	99	100	-	0	132,141	131,713	-	428	100	-	0
Wisconsin Pub Serv Corp																				
1979	548	1018	2.24	2.69	2.28	8.2	34,568	32,318	1,692	558	93	5	2	51,927	45,634	5,045	1,248	88	10	2
1980	468	1007	2.93	-	2.93	-	25,491	24,887	133	472	98	1	2	42,917	40,758	785	1,374	95	2	3
1981	124	1012	3.59	-	3.59	-	22,363	21,902	336	125	98	2	1	42,063	39,472	2,147	444	94	5	1
1982	166	1011	4.15	4.12	4.15	.8	28,608	28,272	168	168	99	1	1	59,701	57,867	1,143	691	97	2	1
Wyandotte Dept of Muni Serv																				
1979	2,154	1011	2.19	2.48	2.21	7.8	2,178	-	-	2,178	-	-	100	4,770	-	-	4,770	-	-	100
1980	999	1015	2.92	2.91	2.92	11.1	2,184	1,171	-	1,013	54	-	46	5,079	2,163	-	2,916	43	-	57
1981	37	1021	4.18	-	4.18	-	3,630	3,592	-	38	99	-	1	6,462	6,308	-	154	98	-	2
1982	105	1018	4.70	-	4.70	-	1,814	1,708	-	106	94	-	6	4,317	3,825	-	492	89	-	11

[4] May Contain Coke Oven Gas, Blast Furnace Gas or Refinery Gas

Note: Numbers may not equal the sum of the component parts because of independent rounding.

Source: Federal Power Commission Form 423.

Glossary

Glossary

Anthracite: Hard and jet black solid fossil fuel with a high luster, it is the highest rank of coal in heat value and is mined in northeast Pennsylvania. (See Coal)

ASTM: American Society for Testing and Materials

Available but Not Needed Capability: Net capability of main generating units that are system-owned or system-operated, operable but not considered necessary to carry load, and cannot be connected to load within a 30-minute time period. (See Capability)

Barrel: A liquid measure defined as 42 gallons.

Baseload: Minimum amount of electric power delivered or required over a given period of time. (See Load)

Baseload Capacity: Capacity of the generating equipment normally operated to serve loads on a continuous basis.

Baseload Plant: A plant usually housing high-efficiency, steam-electric units which continuously provides the baseload of a system. (See Baseload)

Bcf: One billion cubic feet.

Bituminous: Most common type of solid fossil fuel; it is soft, dense, and black with well-defined bands of bright and dull material. Bituminous is ranked between anthracite and subbituminous in heat value and is mined chiefly in Kentucky, Pennsylvania, and West Virginia. (See Coal)

Boiler: Part of a power plant in which water is boiled to produce steam. It consists usually of metal shells and tubes.

Btu (British Thermal Unit): The quantity of heat required to raise the temperature of 1 pound of water by 1 degree Farenheit.

Capability: Maximum load that a generating unit, generating station, or other electrical apparatus can carry under specified conditions for a given period of time, without exceeding approved limits of temperature and stress.

Capacity: Amount of electric power delivered or required for which a generator, turbine, transformer, transmission circuit, station, or system is rated.

Census Regions: The nine geographic divisions of the United States established by the United States Bureau of the Census as an effective basis for statistical analysis. The boundaries of the Census Regions are congruent with State boundaries.

Circuit: A conductor or a system of conductors through which electric current flows or is intended to flow.

Coal: A black or brownish-black solid fossil fuel formed by the partial decomposition of vegetable matter without free access to air. The rank of coal, which includes anthracite, bituminous, subbituminous, and lignite, is determined by its heating value. (See Anthracite, Bituminous, Subbituminous, Lignite)

Coincident Demand: Sum of two or more demands that occur in the same demand interval.

Coincident Peak Load: Sum of two or more peak loads which occur in the same time interval. (See Peak Load)

Commercial Retail Prices of Electricity in Selected Cities: The price of electricity supplied to commercial or business establishments such as stores, offices, restaurants, and garages for lighting and other power purposes.

Compressor: Machine that compresses gases.

Consumption (Fuel): Amount of fuel consumed for gross generation, fuel used for providing standby service, and oil or gas used for start-up and/or flame stabilization of steam-electric plants are included. (See Fuel)

Contract Cost: Price of fuels marketed on a contract basis covering a period of one or more years. Contract prices reflect market conditions at the time the contract was negotiated and therefore remain constant throughout the life of the contract or would be adjusted through escalation clauses. Generally, contract prices do not fluctuate widely.

Contract Receipt: Purchases on a contract basis generally covering a period of 1 or more years.

Cost: Cents per million Btu: Cost is measured by computing cents per million Btu of fuel consumed, calculated as the total cost of fuel consumed divided by its Btu content, and the quotient multiplied by 1 million.

Demand: The rate at which electric energy is delivered to or by a system, part of a system, or piece of equipment, at a given instant or averaged over any designated period of time. (See Load)

Demand Interval: The period of time during which the electric energy flow is averaged in determining demand, such as 60-minute, 30-minute, 15-minute, or instantly.

Electric Utility: An enterprise engaged in the production, transmission, or distribution of electricity for use by the public, includes investor-owned, cooperatively-owned, and Government-owned (municipal systems, Federal agencies, State projects, and public power districts.

Energy: The ability to do work. Electric energy is measured in watthours (Wh) and heat energy is generally measured in British thermal units (Btu). (See Btu, Watthour)

Energy Deliveries: Energy generated by one system and delivered to another system through one or more transmission lines.

Energy Receipts: Energy generated by one system and received by another system through one or more transmission lines.

Glossary

Fahrenheit: Relating or conforming to a thermometric scale where the boiling point of water is at 212 degrees above the zero on the scale, the freezing point is at 32 degrees above zero at standard atmospheric pressure.

Firm Gas: Gas sold on a continuous and generally long-term contract.

Fossil Fuel: Any naturally occurring fuel of an organic nature, such as coal, crude oil, and natural gas. Fossil Fuel Plant A plant using coal, oil, gas, or other fossil fuel as its source of energy.

Fuel: Any substance that can be burned to produce heat; it sometimes includes materials that can be fissioned in a chain reaction to produce heat.

Full-Forced Outage: Net capability of main generating units that are system-owned or system-operated, but unavailable for load due to emergency reasons.

Gas: Includes natural gas, coke-oven gas, blast-furnace gas, and refinery gas. Manufacctured gas is included in FPC Form 423 reporting as natural gas.

Gas Turbine Plant: A plant in which the prime mover is a gas-turbine engine. A gas turbine consists typically of an axial-flow air compressor, one or more combustion chambers where liquid or gaseous fuel is burned in excess air, and a turbine, where the hot gases are expanded to drive the compressor and generator.

Generation: The act or process of producing electric energy from other forms of energy; also, the amount of electric energy, expressed in watthours (Wh).

Generator: A machine used to change mechanical energy into electric energy.

Geothermal Plant: A plant in which the prime mover is a steam turbine. The turbine is driven either by steam produced from hot water or by natural steam, both trapped below the surface of the Earth's crust.

Gigawatt (GW): One billion watts.

Gigawatthour (GWh): One billion watthours.

Gross Generation:: Total amount of electric energy produced by the generating units in a generating station or stations, measured at the generator terminals.

Heavy Oil: The fuel oils remaining after the lighter oils have been distilled off during the refining process. Except for start-up and flame stabilization, virtually all oil used in steam plants is heavy oil.

Horsepower: A unit of power equal to 746 watts.

Hydroelectric Power Plant: A plant in which the prime mover is a waterwheel driven by falling water.

Industrial Retail Prices of Electricity in Selected Cities: Price of electricity supplied to industrial establishments such as automotive and steel producing industries.

Installed Nameplate Capacity: The capacity as shown on the manufacturer's identification plate. This appears on apparatus, such as generating units, turbines, or other equipment in a station or system. Installed station capacity does not include auxiliary or house units. The nameplate capacity is the full-load continuous rating of a generator, prime mover, or other electrical equipment under specified conditions as designated by the manufacturer. It is usually indicated on a nameplate attached mechanically to the equipment.

Instantaneous Peak Demand: Maximum demand at the instant of greatest load. (See Load, Maximum Demand)

Integrated Demand: Demand averaged over a specified period, usually determined by an integrating demand meter or by the integration of a load curve. (See Demand, Load)

Internal Combustion Plant: A plant in which the prime mover is an internal combustion engine. An internal combustion engine has one or more cylinders in which the process of combustion takes place, converting energy released from the rapid burning of a fuel-air mixture into mechanical energy. Diesel engines are the principal types used in electric plants.

Interruptible Gas: Gas sold to customers with a provision that permits curtailment or cessation of service at the discretion of the distributing company under certain circumstances as specified in the service contract.

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): One thousand watthours.

Light Oil: Lighter fuel oils distilled off during the refining process. Virtually all oil used in internal combustion and gas turbine engines is light oil.

Lignite: A brownish-black coal of the lowest rank in heat value; it is mined in North Dakota, Montana and Texas.

Load (Electric): Amount of electric power delivered or required at any specific point or points on a system.

Maximum Demand: Greatest of all demands of the load under consideration occurring within a specified period of time.

Mcf: One thousand cubic feet.

MMcf: One million cubic feet.

Megawatt (MW): One million watts.

Megawatthour (MWh): One million watthours.

Natural Gas: A mixture of hydrocarbon gases, principally methane, occurring in porous geologic formations beneath the Earth's surface, often found in association with petroleum.

Net Capability: Net capability of a generating station is the amount of energy that could be produced as demonstrated by test or as determined by actual operating experience less power generated and used for station uses. Net capability may vary with the character of the load, time of year (due to circulating water temperatures in thermal stations or availability of water in hydroelectric power stations), and other characteristic causes.

Net Energy for Load: Net generation of main gener-

ating units that are system-owned or system-operated plus energy receipts minus energy deliveries.

Net Generation: Gross generation less the electric energy consumed at the generating station for station use. Energy required for pumping at pumped-storage plants is regarded as plant use and must be deducted from the gross generation. (See Generation, Gross Generation)

Noncoincident Demand: Sum of two or more demands on individual systems that do not occur in the same demand interval. (See Demand, Demand Interval, System)

Noncoincident Peak Load: Sum of two or more peak loads on individual systems that do not occur in the same time interval. Meaningful only when considering loads within a limited period of time, such as a day, week, month, or a heating or cooling season and usually for not more than one year. (See Load, Peak Load)

North American Electric Reliability Council (NERC): In 1968, the electric industry created the NERC to augment the reliability and adequacy of bulk power supply in the electric utility systems of North America. NERC consists of nine reliability council regions and encompasses essentially all the power systems of the contiguous U.S. and the Canadian systems in Ontario, British Columbia, Quebec, Manitoba, and New Brunswick. The NERC regions are:

ECAR - East Central Reliability Coordination Agreement
MAIN - Mid-American Interpool Network
MAAC - Mid-Atlantic Area Council
MAPP - Mid-Continent Area Power Pool
NPCC - Northeast Power Coordinating Council
SERC - Southeastern Electric Reliability Council
SWPP - Southwest Power Pool
ERCOT - Electric Reliability Council of Texas
WSCC - Western Systems Coordinating Council

Nuclear Fuel: Fuel containing fissionable materials of such composition and enrichment that when placed in a nuclear reactor will support a self-sustaining fission chain reaction and produce heat in a controlled manner for process use.

Nuclear Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a reactor by heat from the fissioning of nuclear fuel.

Off-Peak Gas: Gas which is to be delivered and taken on demand when demand is not at its peak. (See Spot Purchase)

Other Gas: Includes manufactured gas, coke-oven gas, blast-furnace gas, and refinery gas. Manufactured gas is obtained by distillation of coal, by the thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke. (See Natural Gas)

Other Generation: Other generation includes solar and geothermal generation, and generation from wood, waste, petroleum coke, and wind. (See Generation, Geothermal Plant)

Other Unavailable Capability: Net capability of main generating units that are system-owned or system-operated, but unavailable for load for reasons other than full-forced outage or scheduled maintenance such as partial outages, legal restrictions.

Peaking Capacity: Generating equipment normally operated during the hours of highest daily, weekly, or seasonal loads. Some generating equipment may be operated at certain times as peaking capacity and at other times to serve loads on a continous basis. (See Capacity, Peak Load)

Peak Load: Maximum load during a specified period of time.

Peak Load Plant: A plant usually housing old, low-efficiency steam units, gas turbines, diesels, or pumped-storage hydroelectric equipment normally used during the peak load periods. (See Peak Load)

Percent Difference: The result of subtracting the previous value from the current value divided by the absolute value of the previous value, and the quotient is multiplied by 100.

Petroleum (Crude Oil): A naturally occuring, oily, flammable liquid composed principally of hydrocarbons, and occasionally found in springs or pools but usually obtained from beneath the Earth's surface by drilling wells.

Petroleum Coke: A solid hydrocarbon residue of oil distillation, high in carbon content and low in hydrogen.

Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or nuclear energy into electric energy.

Plant Use Electricity: Electric energy used in the operation of a plant. Included in this definition is the energy required for pumping at pumped-storage plants.

Price: Retail cost of electricity.

Prime Mover: The engine, turbine, water wheel, or similar machine which drives an electric generator. For the purpose of this publication, prime mover represents the aggregation of all like equipment within a plant.

Production (Electric): Act or process of producing electric energy from other forms of energy; also, the amount of electric energy expresses in watthours (Wh).

Pumped-Storage Plant: A hydroelectric plant which generates electric energy during peak load periods. Usually this type of plant uses water previously pumped into a storage reservoir during off-peak periods.

Residential Retail Prices of Electricity in Selected Cities: Price of electricity supplied to residential customers for lighting, refrigeration, cooling, water heating, and other domestic uses.

Glossary

Receipts: Purchases of fuel.

Reserve Margin: Amount of unused available capability of a generating station. Running and quick-start capability + available but not needed capability - peak load.

Running and Quick-Start Capability: Net capability of main generating units that are system-owned or system-operated, carrying load or having quick-start capability. In general, quick-start capability refers to generating units that can be available for load within a 30-minute period. (See Capability, Load, Net Capability)

Scheduled Maintenance: Net capability of main generating units that are system-owned or system-operated, but unavailable for load due to inspection or maintenance, in accordance with an advance schedule.

Short Ton: A unit of weight equal to 2,000 pounds.

Spot Purchase: A single shipment of fuel or volumes of fuel to be delivered within one year. Spot purchases are often made by a user to fulfill a certain portion of energy requirements or to meet unanticipated energy requirements usually at a higher than normal cost.

Station (Electric): A plant containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or nuclear energy into electric energy.

Steam-Electric (Conventional) Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler by heat from burning fossil fuels. (See Fossil Fuel, Fuel, Plant, Turbine)

Stocks (Fuel): A supply of fuel accumulated for future use. This includes coal and fuel oil stocks at the plant site, in coal cars or barges at the plant site, and stocks held in central storage yards.

Subbituminous: A dull black solid fossil fuel ranking between lignite and bituminous in heat value; it is mined chiefly in Montana and Wyoming.

System (Electric): Physically connected generation, transmission, and distribution facilities operated as an integrated unit under one central management, or operating supervision.

Transformer: An electromagnetic device for changing the voltage of alternating current electricity.

Transmission: Act or process of transporting electric energy in bulk from a source or sources of supply to other principle parts of an electric utility system. (See System)

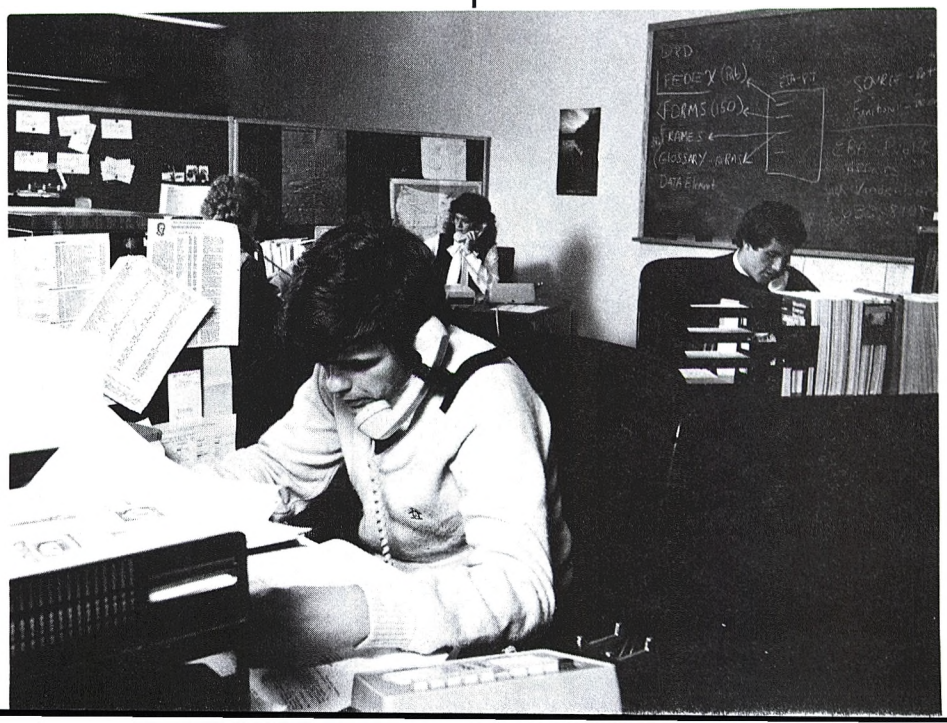
Transmission Circuit: A conductor used to transport electricity from one source to another.

Turbine: A rotary engine actuated by the reaction or impulse or both of a current of fluid (such as water or steam) which is subject to pressure and usually made of a series of curved vanes attached to a central rotating spindle.

Watt: The electrical unit of power or rate of doing work. A watt is the rate of energy transfer equivalent to 1 ampere flowing under the pressure of 1 volt at unity power factor (volt and ampere in phase). It is analogous to horsepower or foot-pound-per- minute of mechanical power. One horsepower is equivalent to approximately 746 watts. (See Horsepower)

Watthour (Wh): Equal to 1 watt of power supplied to, or taken from, an electric circuit steadily for 1 hour.

Technical Notes



Technical Notes

1. Sources of Data

The Office of Coal, Nuclear, Electric and Alternate Fuels is responsible for routine data improvement and quality assurance activities. All operations of this office are done in accordance with formal standards established by the Energy Information Administration (EIA). These standards are the measuring rod necessary for quality statistics. Data improvement efforts include verification of data-keyed input by automatic computerized methods, editing by subject matter specialists, and follow-up on nonrespondents. Completed forms received by the Office of Coal, Nuclear, Electric and Alternate Fuels are sorted, screened for completeness of reported information, and keyed onto computer tapes for storage and transfer to data bases on random access storage devices for computer processing. The information coded on the computer tapes is spot checked against the forms by hand to certify accuracy of the tapes. To insure the quality standards established by EIA, algorithms have been designed and implemented using the past history of data values in the data base to check data input for errors automatically. This automatically reduces the possibility of error entries in the data bases over time as the algorithm learns. Data values rejected by the algorithm are checked with respondents by telephone to correct the problems. Computerized respondent data files are checked to identify those who fail to respond to the survey. By law, nonrespondents may be fined or otherwise penalized for not filing an EIA data form as prescribed in the instructions. Before invoking the law, EIA tries to obtain the required information by encouraging cooperation of nonrespondents.

The Office of Coal, Nuclear, Electric and Alternate Fuels supports the quality assurance efforts of the data collectors by providing advisory reviews of the structure of information requirements, and of proposed designs for new and revised data collection forms and systems. We also validate the actual performance of working data collection systems, once fielded.

Statistics published in in the **Cost and Quality of Fuels for Electric Utility Plants - Annual** are based on data collected on the FPC Form 423 - **Monthly Report of Cost and Quality of Fuels for Electric Plants**. A brief summary, which includes the history of this form and information collected, is presented below.

1.1. Summary Statement of the FPC Form 423 Primary Purpose

The Federal Power Commission Form 423 is a monthly record of each fuel purchase delivered to electric power generation plants with a fossil-fuel combined capacity of 25 megawatts or larger, accounting for approximately 95 percent of electric utility fossil-fuel receipts.

1.2. Instrument and Design History

On July 7, 1972, the FPC issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, and legally creating the Form 423. Originally, the form included only steam plants, but was amended in 1974 to include internal combustion and combustion turbines.

The FPC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants, is submitted by approximately 281 electric utilities for each fossil-fueled plant having a total generating capacity of 25 megawatts or larger. A 6-month supply of forms is mailed to respondents semi-annually. Completed forms are due on or before the 45th day following the end of the reporting month.

1.3. Data Processing

Forms are mailed to respondents using a computerized mailing address file. Completed forms are manually logged in and edited before the data are keypunched for automatic data processing. The electric utility companies are telephoned to obtain data in cases of missing reports and to verify data when questions arise during editing. All respondents' reports are received each month before an edit program checks the data for errors not found during manual editing. New plants are added to the FPC Form 423 System when respondents indicate the addition of a new plant.

1.4. Presentation

Data from the FPC Form 423 are summarized in this publication, as well as the **Cost and Quality of Electric Utility Plant Fuels - Monthly**(3), the **Electric Power Monthly**(5), and the **Monthly Energy Review**(7).

1.5. Information Collected

The data items supplied each month by all electric utilities for each plant are:

Plant type: steam turbine, combustion turbine, or internal combustion.

Purchase type (Spot Purchase): purchases for which the cost is negotiated for one delivery.

Purchase type (Contract Purchase): purchases for which the cost of deliveries is negotiated in advance for a term of more than one delivery.

Fuel type (Coal): anthracite, bituminous, subbituminous, lignite, and petroleum coke.

Fuel type (Oil): FO2, FO4, FO5, FO6, crude, topped crude, kerosene, jet fuel, and liquefied petroleum gas (LPG).

Fuel type (Gas): natural gas, synthetic natural gas, liquefied natural gas, refinery gas, blast-furnace gas, and coke-oven gas.

Fuel type (Other Fuels): methanol, or specified by footnote.

Coal mines (Type): surface mined or underground mined.

Coal mines (District): State and Bureau of Mines (BOM) coal producing district.

Source (Coal): name of mine and county from which coal originated.

Source (Oil): supplier and refinery or port of entry.

Source (Gas): pipeline (supplier) or distributor, producing area by State, or port of entry.

Quantity (Heat Content): average Btu content.

Quantity (Sulfur Content): sulfur content (percentage by weight).

Quantity (Ash Content): ash content (percentage by weight).

Quantity (Cost): cents per million Btu.

2. Quality of Data

The edit systems are automated to edit data from the form surveys on a monthly basis. The edit includes both deterministic checks, in which records are checked for the presence of required fields and their validity, and statistical checks, in which estimation techniques are used to validate data according to its behavior in the past and in comparison to other current fields. When all data have passed the edit process, the system builds monthly master files. These master files are used as input to this report.

2.1. Data Accuracy of FPC Form 423 Data

Introduction

The Federal Power Commission (FPC) Form 423 (**Monthly Report of Cost and Quality of Fuels for Electric Plants**) is completed monthly by utilities operating fossil-fuel plants with a generating capacity of 25 megawatts or larger. The utilities provide information on quantity and cost of fuel received and the average Btu, sulfur, and ash content.

The Electric Power Division (EPD) manually reviews the completed data forms before the information is entered into a computer file. Automated edits are used to check the data fields for validity and to compare the current values with past behavior.

In addition to these edit checks, the EPD has taken further steps to insure data quality. An assessment of errors in the FPC Form 423 was based on field visits to a sample of 40 utilities. Reported data values for June 1980 were checked against utility records to determine whether data were reported correctly.

Based on the results of this sample, the Form 423 data have a high degree of accuracy on a national aggregate basis. The reporting error in cost in cents per million Btu was -0.4 percent for gas, -1.3 percent for light oil, -1.4 percent for heavy oil, and -0.5 percent for coal. The reporting error in quantity data was 0.2 percent for natural gas, -4.8 percent for light oil, -0.9 percent for heavy oil, and -0.8 percent for coal. The aggregate reported quality data (Btu and sulfur content) had reporting errors less than 1.0 percent.

Other sources of error in the FPC Form 423 data include retroactive adjustments to prices, lack of specification of detailed procedures for reporting costs, nonreporting of flame stabilization and start-up fuel, and selection or noncoverage error. Steps are being taken to minimize these errors by clarifying the instructions on the form and by checking capacity values on the Form EIA-759 (**Monthly Power Plant Report**) to determine proper coverage.

It must be remembered that sample data were taken for a single month, therefore there are limitations on generalizations that can be made from the sample. Details of this quality assessment study are shown below.

Sample Design

A sample of 40 utilities was drawn from 10 strata to provide minimum sampling variance for estimates of total fossil-fired generation. The strata were defined in terms of kilowatthours of fossil generation in 1979. Within each stratum, utilities were randomly selected.

Reporting Error

For June 1980, reporting error is defined as the difference between a number reported on the FPC Form 423 minus the number redetermined during the field visit. The errors in 4 key variables (cost, quantity, Btu content, and sulfur content) were computed for each of the 212 plants in the field study sample. Percent reporting error is defined as the estimated mean error divided by the estimated redetermined value.

Cost Reporting Error

The estimated percent reporting error for cost was less than 1.5 percent for each of the four fuel types. In the case of coal, the largest component of the overall cost error arose from the failure to include internal transportation costs, fixed costs, and premium or penalties for quality.

Quantity Reporting Error

The estimated reporting error in cost was less than 1.0 percent for coal, heavy oil, and natural gas. Nonreporting of start-up and flame stabilization fuel led to the small quantity of light oil used by utilities being underreported by 4.8 percent. Use of the wrong measurement point or period and estimation of receipts when actual values were not available contributed to these errors.

Btu Content and Sulfur Content

The estimated reporting error for quality data (Btu content and sulfur content) was less than 1.0 percent

for each of the four fuels (see the table on the following page). The use of contract specifications rather than laboratory values was the most frequent source of error.

The following table shows estimated percent reporting error in FPC Form 423 in cost, quantity, Btu content, and sulfur content data for the month of June 1980.

Table 58. Estimated Percent Reporting Error in FPC Form 423 in Cost, Quantity, Btu Content and Sulfur Content - Data for Plants of 25-Megawatt Capacity or Larger, June 1980

Fuel Type	Cost	Quantity	Btu Content	Sulfur Content
Coal	*	*	*	*
Heavy Oil	-1.4	*	*	*
Light Oil	-1.3	-4.8	*	*
Gas	*	*	*	N/A

Note: Reporting error is defined as the difference between data originally reported by the utility and corresponding values redetermined during the field visit. Percent reporting error is defined as reporting error divided by the value determined by the field visit, and the quotient is multiplied by 100.

* Indicates absolute value of percent reporting error is less than 1 percent.

Source: Federal Power Commission Form 423.

Standard Error for Estimates of Reporting Error

For cost, quantity, Btu content, and sulfur content, the mean error based on the sample was calculated using weights determined by the sampling fraction for each stratum and the number of utilities in each stratum. This mean error and its standard error (the square root of the variance of the estimate of the mean error) can be used to test the hypothesis that the mean error is zero. For each of the fuel types and the four key data series, with the exception of cost for coal, the mean reporting errors were not significantly different from zero at the 95 percent confidence level.

Other Sources of Error

In addition to reporting error, other sources of error were evaluated. For cost data, errors were caused by the presence of retroactive adjustments to prices and lack of specification of detailed procedures for reporting costs (i.e., how to handle fixed costs).

When these errors are included with the reporting errors, the overall estimates of percent error in cost are -3.1, -2.4, -2.3 and -1.4 for coal, heavy oil, light oil, and gas respectively.

For quantity data, in addition to the previously discussed reporting error, other errors were introduced by nonreporting of flame stabilization and start-up fuel, and by selection or noncoverage error. Noncoverage error was evaluated by searching the 1980 Form EIA-759 master file for all plants that were eligible for reporting on the FPC Form 423 (those plants having a generating capacity of 25 MW or larger). The noncoverage problem was greatest in the area of natural gas receipts at peaking plants. In order to minimize these errors, the instructions on the data collection form are being clarified and routine procedures for checking capacity values on the Form EIA-759 are being implemented. When these errors are included with the respondent errors, the overall estimates of percent error in quantity are -1.1, -1.2, -8.0, and -1.0 for coal, heavy oil, light oil, and gas respectively.

Conclusions

These results confirm that the FPC Form 423 data have a high degree of accuracy on a national aggregate basis. Based on respondent error for June 1980, national aggregate data were estimated to be accurate within 1.0 percent, with the exception of cost for heavy oil and the cost and quantity of light oil. Steps are being taken to minimize other sources of specification and noncoverage error by clarifying the instructions on the form and by correcting the frame.

2.2. Confidentiality of the Data

The data collected on the forms used for input to this report are not confidential.

2.3. Obtaining Copies of Data

Upon EIA approval of the **Electric Power Monthly**(5), the data become available for public use in either custom computer runs, data tapes, or the publications themselves on a cost-recovery basis. A request is made by writing a letter to:

U.S. Department of Energy Energy Information Administration Electric Power Division, EI-541 Forrestal Building Washington, D. C. 20585

Copies of these data are free to all U.S. Government agencies. However, for a tape copy the agency must submit a tape with the request.

Custom computer runs are obtained by submitting a check of $25.00 made out to the U.S. Treasury with the written request for the hard copy.

Tape copies are obtained by submitting a check of $50.00 made out to the U.S. Treasury and a tape with the written request.

2.4. Algorithms

For the following algorithms, SUM is an operator meaning summation.

Average Annual Rate of Growth

Average Annual Rate of Growth = ((CV/BV)**(1/n) - 1)*100, where CV denotes the cur-

rent year's value, BV denotes the beginning year's value, n=C-B-1, C denotes the current year, and B denotes the beginning year. The rates of growth are calculated independently for the different levels of aggregation. For obtaining forecasted average annual rates of growth, replace "current year" with "forecasted year."

FPC Form 423

For the following algorithms,

1. for coal, "Quantity" units are tons, "Average Btu Content" units are Btu per pound and U = 2000 pounds per ton;
2. for oil, "Quantity" units are barrels, "Average Btu Content" units are Btu per gallon and U = 42 gallons per barrel;
3. for gas, "Quantity" units are Mcf, "Average Btu Content" units are Btu per cf and U = 1000 cf/Mcf.

The values used for "Average Btu Content" are found in section 2.7 of the "Technical Notes" of the **Electric Power Annual-1982**(4).

The symbol F is coal, oil, heavy oil, light oil, and gas. In the case of coal, to obtain the other aggregates, replace contract with strip and auger, spot with underground. Gas aggregates are obtained by replacing contract with interruptible and spot with firm.

Total Btu

Total Btu = SUM(Quantity x Average Btu Content x U).

Average Btu

Average Btu = SUM(Quantity x Average Btu Content)/SUM(Quantity).

Average Cents per Million Btu

Cents per Million Btu = SUM(Quantity x Average Btu Content x Cost in cents per Million Btu)/SUM(Quantity x Average Btu Content).

Average Dollars per Unit

For the following formula: "Unit" = ton for coal, barrel for oil, and Mcf for gas.

Dollars per Unit = SUM(Quantity x Average Btu Content x U x Cost in Cents per Million Btu)/(SUM(Quantity) x 100 Cents/Dollar).

Receipts

U.S. Aggregates

Total Receipts(T) = SUM(Receipts(T)), where T is bituminous, subbituminous, anthracite, and lignite for coal; light and heavy for oil; natural and other for gas.

NERC Aggregates

NERC Receipts(RT) = SUM(Receipts(RT)), where R is a NERC region; T is bituminous, subbituminous, anthracite, and lignite for coal; light and heavy for oil; natural and other for gas.

Census Region Aggregates

Census Receipts(CT) = SUM(Receipts(CT)), where C is a Census Region; T is bituminous, subbituminous, anthracite, and lignite for coal; light and heavy for oil; natural and other for gas.

State Aggregates

State Receipts(ST) = SUM(Receipts(ST)), where S is a State; T is bituminous, subbituminous, anthracite, and lignite for coal; light and heavy for oil; natural and other for gas.

Cost

U.S. Aggregates (Tables 1-55)

Total Average Cost of (F) = Cents per million Btu, for the cents per million Btu calculation applied to the contiguous United States.

Total Average Cost of (F) = Dollars per Unit, for the dollars per unit calculation applied to the contiguous United States.

Total Average Contract Cost of (F) = Cents per million Btu, for the cents per million Btu calculation applied to the contiguous United States.

Total Average Spot Cost of (F) = Cents per million Btu, for the cents per million Btu calculation applied to the contiguous United States.

Total Average Contract Cost of (F) = Dollars per Unit, for the dollars per unit calculation applied to the contiguous United States.

Total Average Spot Cost of (F) = Dollars per Unit, for the dollars per unit calculation applied to the contiguous United States.

Census Region Aggregates

Census Region Average Cost of (F) = Cents per Million Btu, for the cents per million Btu calculation applied to the Census Region.

Census Region Average Cost of (F) = Dollars per Unit, for the dollars per unit calculation applied to the Census Region.

Census Region Average Contract Cost of (F) = Cents per Million Btu, for the cents per million Btu calculation applied to the Census Region.

Census Region Average Spot Cost of (F) = Cents per Million Btu, for the cents per million Btu calculation applied to the Census Region.

Census Region Average Contract Cost of (F) = Dollars per Unit, for the dollars per unit calculation applied to the Census Region.

Census Region Average Spot Cost of (F) = Dollars

per Unit, for the dollars per unit calculation applied to the Census Region.

State Aggregates

State Average Cost of (F) = Cents per Million Btu, for the cents per million Btu calculation applied to the State.

State Average Cost of (F) = Dollars per Unit, for the dollars per unit calculation applied to the State.

State Average Contract Cost of (F) = Cents per Million Btu, for the cents per million Btu calculation applied to the State.

State Average Spot Cost of (F) = Cents per Million Btu, for the cents per million Btu calculation applied to the State.

State Average Contract Cost of (F) = Dollars per Unit, for the dollars per unit calculation applied to the State.

State Average Spot Cost of (F) = Dollars per Unit, for the dollars per unit calculation applied to the State.

2.5. Rounding Rules for Data

Given an n digit number with r digits to the left of the decimal and d+t digits in the fraction part, with d being the place to which the number is to be rounded and t being the remaining digits which will be truncated, this number is rounded to r+d digits by adding 5 to the (r+d+1)th digit when the number is positive or by subtracting 5 when the number is negative. The t digits are then truncated at the (r+d+1)th digit. The symbol for a rounded number truncated to zero is *.

2.6. **Lists of Twenty Largest Companies Ranked by Btu, Coal, Petroleum, and Gas Receipts and Fuel Bill**

Table 59. List of 20 Largest Companies for Plants of 25-Megawatt Capacity or Larger, Ranked by Total Btu Receipts, 1982

Company Name	Total Btu Receipts (billions)	Cost (thousand dollars)
1. Tennessee Valley Authority	748,835	1,306,514
2. Houston Lighting and Power	555,681	1,870,974
3. Georgia Power (Southern Co)	489,826	916,762
4. Southern California Edison	392,978	1,568,879
5. Duke Power	391,127	726,134
6. Texas Utilities Services Inc	354,296	297,445
7. Pennsylvania Electric (GPS)	333,237	483,979
8. Commonwealth Edison	310,260	1,026,589
9. Florida Power and Light	310,007	1,043,017
10. Detroit Edison Co	305,051	592,198
11. Ohio Power (AEP)	289,173	517,489
12. Monongahela Power (APS)	282,412	445,270
13. Alabama Power Co (SC)	278,209	596,777
14. Gulf States Utilities	272,717	462,050
15. Appalachian Power (AEP)	271,404	546,712
16. Pennsylvania Power and Light	266,382	595,559
17. Pacific Power and Light	263,870	236,500
18. Union Electric	252,219	359,887
19. Carolina Power and Light	248,836	485,152
20. Public Service Co of Indiana	244,315	354,955
Total for 20 Largest Companies	**6,860,835**	**14,432,842**
Percent of Total for Form 423 Companies	**39.1**	**36.6**

Notes: Percent of total based on data that include Alaska and Hawaii. Totals may not equal sum of components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 60. List of 20 Largest Companies for Plants of 25-Megawatts Capacity or Larger, Ranked by Total Fuel Bills, 1982

Company Name	Total Fuel Bill (thousand dollars)	Total Btu Receipts (billions)
1. Houston Lighting and Power	1,870,974	555,681
2. Southern California Edison	1,568,879	392,978
3. Tennessee Valley Authority	1,306,514	748,835
4. Pacific Gas and Electric	1,188,757	230,907
5. Florida Power and Light	1,043,017	310,007
6. Commonwealth Edison	1,026,589	310,260
7. Georgia Power (Southern Co)	916,762	489,826
8. Consolidated Edison Co of NY	740,967	164,266
9. Duke Power	726,134	391,127
10. Alabama Power Co (SC)	596,777	278,209
11. Pennsylvania Power and Light	595,559	266,382
12. Detroit Edison Co	592,198	305,051
13. Appalachian Power (AEP)	546,712	271,404
14. Central Power and Light (CSW)	542,563	154,628
15. Ohio Power (AEP)	517,489	289,173
16. Florida Power Corp	505,845	146,683
17. Long Island Lighting	501,893	119,739
18. Public Service Elec and Gas-NJ	493,867	135,204
19. Carolina Power and Light	485,152	248,836
20. Pennsylvania Electric (GPS)	483,979	333,237
Total for 20 Largest Companies	**16,250,627**	**6,142,433**
Percent of Total for Form 423 Companies	**41.2**	**35.0**

Notes: Percent of total based on data that include Alaska and Hawaii. Totals may not equal sum of components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 61. List of 20 Largest Companies for Plants of 25-Megawatt Capacity or Larger, Ranked by Total Coal Receipts, 1982

Company Name	Total Coal Receipts (thousand tons)	Cost (thousand dollars)
1. Tennessee Valley Authority	31,972	1,290,829
2. Texas Utilities Services Inc	27,173	297,445
3. Georgia Power (Southern Co)	20,406	907,842
4. Duke Power	15,957	719,919
5. Pacific Power and Light	15,589	236,500
6. Pennsylvania Electric (GPS)	13,903	464,279
7. Ohio Power (AEP)	13,314	517,489
8. Commonwealth Edison	12,950	621,916
9. Detroit Edison Co	12,312	533,228
10. Public Service Co of Indiana	11,394	348,641
11. Alabama Power Co (SC)	11,337	586,558
12. Appalachian Power (AEP)	11,295	546,712
13. Union Electric	11,262	338,877
14. Monongahela Power (APS)	11,105	439,785
15. Arizona Public Service	10,857	166,852
16. Carolina Power and Light	10,035	474,190
17. Pennsylvania Power and Light	9,438	408,920
18. Salt River Project	9,013	202,848
19. Utah Power and Light	8,034	234,042
20. Kansas City Power and Light	8,003	181,015
Total for 20 Largest Companies	**275,349**	**9,517,887**
Percent of Total for Form 423 Companies	**45.8**	**45.3**

Notes: Percent of total based on data that include Alaska and Hawaii. Totals may not equal sum of components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 62. List of 20 Largest Companies for Plants of 25-Megawatt Capacity or Larger, Ranked by Total Oil Receipts, 1982

Company Name	Total Oil Receipts (thousand barrels)	Cost (thousand dollars)
1. Florida Power and Light	31,801	866,293
2. Long Island Lighting	15,414	411,205
3. Consolidated Edison Co of NY	14,903	469,078
4. Central Hudson Gas and Electric	10,981	299,452
5. Forida Power Corp	10,929	293,112
6. Boston Edison	10,583	293,016
7. Canal Electric Co	9,424	244,732
8. Hawaiian Electric	8,636	368,860
9. Commonwealth Edison	8,255	370,792
10. New England Power (NEES)	7,772	195,413
11. United Illuminating Co	7,534	221,379
12. Connecticut Lt and Power Co (NU)	7,410	214,969
13. San Diego Gas and Electric	6,333	288,376
14. Niagra-Mohawk Power	6,252	189,499
15. Jacksonville Electric Authority	6,078	167,531
16. Pennsylvania Power and Light	5,903	186,638
17. Public Service Elec and Gas-NJ	5,780	194,592
18. Orange and Rockland Utilities	5,340	169,154
19. Philadelphia Electric	3,551	117,443
20. Baltimore Gas and Electric	3,503	103,405
Total for 20 Largest Companies	**186,382**	**5,664,939**
Percent of Total for Form 423 Companies	**77.7**	**76.8**

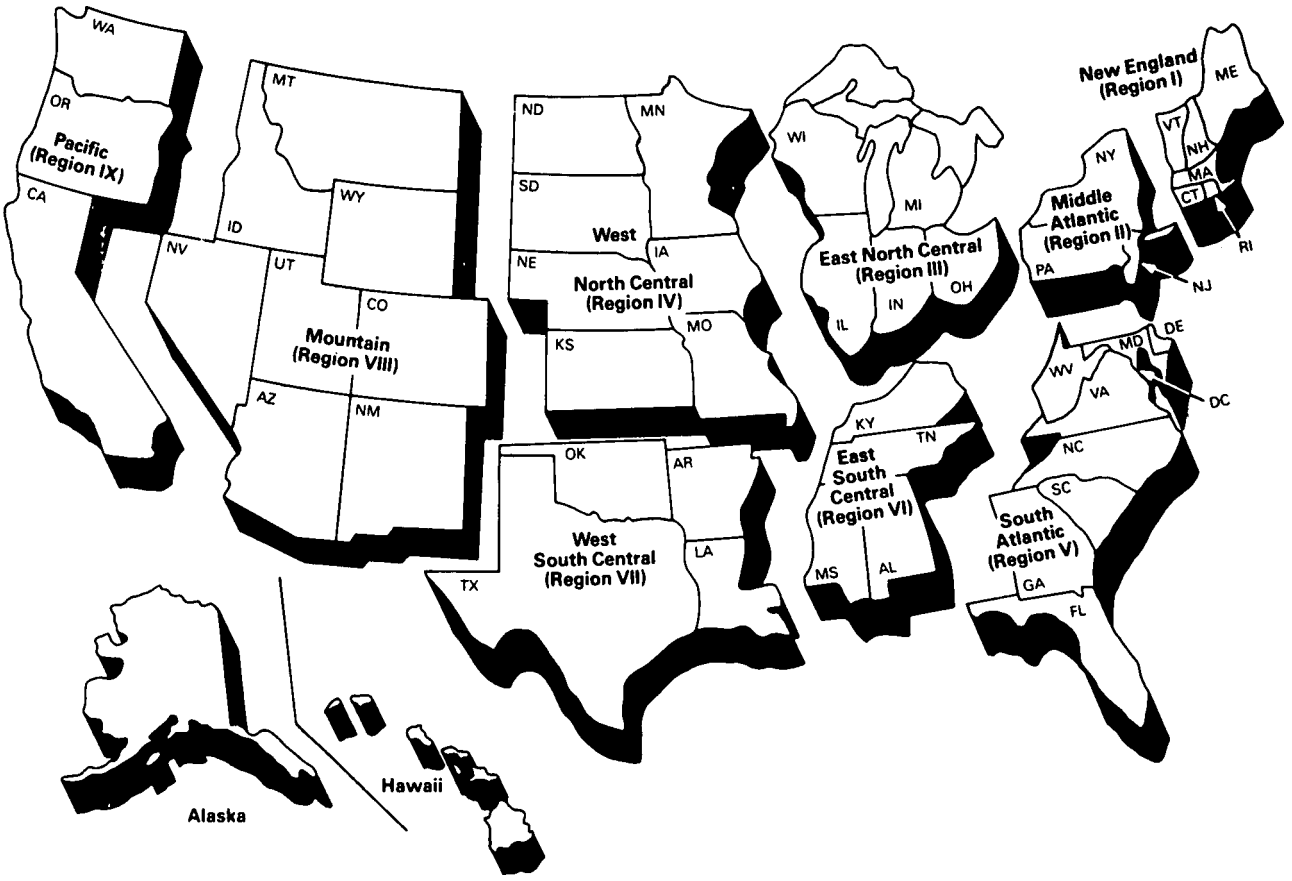
Notes: Percent of total based on data that include Alaska and Hawaii. Totals may not equal sum of components because of independent rounding.
Source: Federal Power Commission Form 423.

Table 63. List of 20 Largest Companies for Plants of 25-Megawatt Capacity or Larger, Ranked by Total Gas Receipts, 1982

Company Name	Total Gas Receipts (thousand Mcf)	Cost (thousand dollars)
1. Houston Lighting and Power	427,122	1,571,569
2. Southern California Edison	256,784	1,347,555
3. Gulf States Utilities	247,175	421,810
4. Pacific Gas and Electric	205,771	1,105,403
5. Louisiana Power and Light (MSU)	147,887	366,747
6. Oklahoma Gas and Electric	132,549	280,481
7. Texas Pwr and Lt (Texas Utils)	120,382	403,237
8. Texas Electric Serv (Texas Utils)	119,389	449,311
9. Florida Power and Light	109,648	176,724
10. Central Power and Light (CSW)	107,319	435,289
11. Public Service Co of Oklahoma (CSW)	95,747	205,403
12. Southwestern Public Service	75,186	226,589
13. Mississippi Pwr and Lt (MSU)	74,671	237,513
14. Consolidated Edison Co of NY	70,364	271,889
15. Dallas Pwr and Lt (Texas Utils)	65,084	250,998
16. Southwestern Electric Pwr (CSW)	56,953	133,033
17. West Texas Utilities (CSW)	46,739	150,576
18. Central Louisiana Electric	42,996	172,008
19. Public Service Elec and Gas-NJ	42,526	175,133
20. New Orleans Public Service (MSU)	36,568	149,599
Total for 20 Largest Companies	**2,480,860**	**8,530,867**
Percent of Total for Form 423 Companies	**78.5**	**77.2**

Notes: Percent of total based on data that include Alaska and Hawaii. Totals may not equal sum of components because of independent rounding.
Source: Federal Power Commission Form 423.

Census Region Map



2.8. Coal Producing Districts

District 1

Maryland–All mines in the State.

Pennsylvania–All mines in the following counties: Bedford, Blair, Bradford, Cambria, Cameron, Centre, Clarion, Clearfield, Clinton, Elk, Forest, Fulton, Huntingdon, Jefferson, Lycoming, McKean, Mifflin, Potter, Somerset, and Tioga. Selected mines in the following counties: Armstrong County (part), all mines east of the Allegheny River, and those mines served by the Pittsburgh & Shawmut Railroad located on the west bank of the river; Fayette County (part), all mines located on and east of the line of Indian Creek Valley branch of the Baltimore & Ohio Railroad; Indiana County (part), all mines not served by the Saltsburg branch of the Consolidated Rail Corporation; and Westmoreland County (part), all mines served by the Consolidated Rail Corporation from Torrance, east.

West Virginia–All mines in the following counties: Grant, Mineral, and Tucker.

District 2

Pennsylvania–All mines in the following counties: Allegheny, Beaver, Butler, Green, Lawrence, Mercer, Venango, and Washington. Selected mines in the following counties: Armstrong County (part), all mines west of the Allegheny River except those mines served by the Pittsburgh & Shawmut Railroad; Fayette County (part), all mines except those on and east of the line of Indian Creek Valley branch of the Baltimore & Ohio Railroad; Indiana County (part), all mines served by the Saltsburg branch of the Consolidated Rail Corporation; and Westmoreland County (part), all mines except those served by the Consolidated Rail Corporation from Torrance, east.

District 3

West Virginia–All mines in the following counties: Barbour, Braxton, Calhoun, Doddridge, Gilmer, Harrison, Jackson, Lewis, Marion, Monongalia, Pleasants, Preston, Randolph, Ritchie, Roane, Taylor, Tyler, Upshur, Webster, Wetzel, Wirt, and Wood. Selected mines

in the following county: Nicholas County (part), all mines served by or north of the Baltimore & Ohio Railroad.

District 4

Ohio–All mines in the State.

District 5

Michigan–All mines in the State.

District 6

West Virginia–All mines in the following counties: Brooke, Hancock, Marshall, and Ohio.

District 7

Virginia–All mines in the following counties: Craig, Giles, Montgomery, Pulaski, and Wythe. Selected mines in the following counties: Buchanan County (part), all mines in that portion of the county served by the Richlands-Jewell Ridge branch of the Norfolk & Western Railroad and in that portion on the headwaters of Dismal Creek east of Lynn Camp Creek (a tributary of Dismal Creek); and Tazewell County (part), all mines in those portions of the county served by the Dry Fork branch to Cedar Bluff and from Bluestone Junction to Boissevain branch of the Norfolk & Western Railroad and Richlands-Jewell Ridge branch of the Norfolk & Western Railroad.

West Virginia–All mines in the following counties: Greenbrier, Mercer, Monroe, Pocahontas, and Summers. Selected mines in the following counties: Fayette County (part), all mines east of Gauley River and all mines served by the Gauley River branch of the Chesapeake & Ohio Railroad and mines served by the Norfolk & Western Railroad; McDowell County (part), all mines in that portion of the county served by the Dry Fork branch of the Norfolk & Western Railroad and east thereof; Raleigh County (part), all mines except those on the Coal River branch of the Chesapeake & Ohio Railroad and north thereof; and Wyoming County (part), all mines in that portion served by the Guyandot branch of the Norfolk & Western Railroad lying east of the mouth of Skin Fork of Guyandot River and in that portion served by the Virginia division main line of the Norfolk & Western Railroad.

District 8

Kentucky–All mines in the following counties in eastern Kentucky: Bell, Boyd, Breathitt, Carter, Clay, Elliott, Estill, Floyd, Greenup, Harlan, Jackson, Johnson, Knott, Knox, Laurel, Lawrence, Lee, Leslie, Letcher, McCreary, Magoffin, Martin, Morgan, Owsley, Perry, Pike, Pulaski, Rockcastle, Wayne, Whitley, and Wolfe.

North Carolina–All mines in the State.

Tennessee–All mines in the following counties: Anderson, Campbell, Claiborne, Cumberland, Fentress, Morgan, Overton, Roane, and Scott.

Virginia–All mines in the following counties: Dickinson, Lee, Russell, Scott, and Wise. Selected mines in the following counties: Buchanan County (part), all mines in the county, except in that portion on the headwaters of Dismal Creek, east of Lynn Camp Creek (a tributary of Dismal Creek) and in that portion served by the Richlands-Jewell Ridge branch of the Norfolk & Western Railroad; and Tazewell County (part), all mines in the county except in those portions served by the Dry Fork branch of the Norfolk & Western Railroad and branch from Bluestone Junction to Boissevain of Norfolk & Western Railroad and Richlands-Jewell Ridge branch of the Norfolk & Western Railroad.

West Virginia–All mines in the following counties: Boone, Cabell, Clay, Kanawha, Lincoln, Logan, Mason, Mingo, Putnam, and Wayne. Selected mines in the following counties: Fayette County (part), all mines west of the Gauley River except mines served by the Gauley River branch of the Chesapeake & Ohio Railroad; McDowell County (part), all mines west of and not served by the Dry Fork branch of the Norfolk & Western Railroad; Nicholas County (part), all mines in that part of the county south of and not served by the Baltimore & Ohio Railroad; Raleigh County (part), all mines on the Coal River branch of the Chesapeake & Ohio Railroad and north thereof; and Wyoming County (part), all mines in that portion served by the Guyandot branch of the Norfolk & Western Railroad and lying west of the mouth of Skin Fork of Guyandot River.

District 9

Kentucky–All mines in the following counties in western Kentucky: Butler, Caldwell, Christian, Crittenden, Daviess, Grayson, Hancock, Henderson, Hopkins, Logan, McLean, Muhlenberg, Ohio, Simpson, Todd, Union, Warren, and Webster.

District 10

Illinois–All mines in the State.

District 11

Indiana–All mines in the State.

District 12

Iowa–All mines in the State.

District 13

Alabama–All mines in the State.

Georgia–All mines in the State.

Tennessee–All mines in the following counties: Bledsoe, Grundy, Hamilton, Marion, McMinn, Rhea, Sequatchie, Van Buren, Warren, and White.

Technical Notes

District 14

Arkansas–All mines in the State.

Oklahoma–All mines in the following counties: Haskell, Le Flore, and Sequoyah.

District 15

Kansas–All mines in the State.

Missouri–All mines in the State.

Oklahoma–All mines in the following counties: Coal, Craig, Latimer, McIntosh, Muskogee, Okmulgee, Pittsburg, Rogers, Tulsa, and Wagoner.

Texas–All mines in the State.

District 16

Colorado–All mines in the following counties: Adams, Arapahoe, Boulder, Douglas, Elbert, El Paso, Jackson, Jefferson, Larimer, and Weld.

District 17

Colorado–All mines except those included in District 16. New Mexico–All mines except those included in District 18.

District 18

Arizona–All mines in the State.

California–All mines in the State.

New Mexico–All mines in the following counties: Grant, Lincoln, McKinley, Rio Arriba, Sandoval, San Juan, San Miguel, Santa Fe, and Socorro.

District 19

Idaho–All mines in the State.

Wyoming–All mines in the State.

District 20

Utah–All mines in the State.

District 21

North Dakota–All mines in the State.

South Dakota–All mines in the State.

District 22

Montana–All mines in the State.

District 23

Alaska–All mines in the State.

Oregon–All mines in the State.

Washington–All mines in the State.

District 24. (Pennsylvania Anthracite)

Pennsylvania–All mines in the following counties: Carbon, Columbia, Dauphin, Lackawanna, Lebanon, Luzerne, Northumberland, Schuylkill, Sullivan, and Susquehanna. All anthracite mines in Bradford County.

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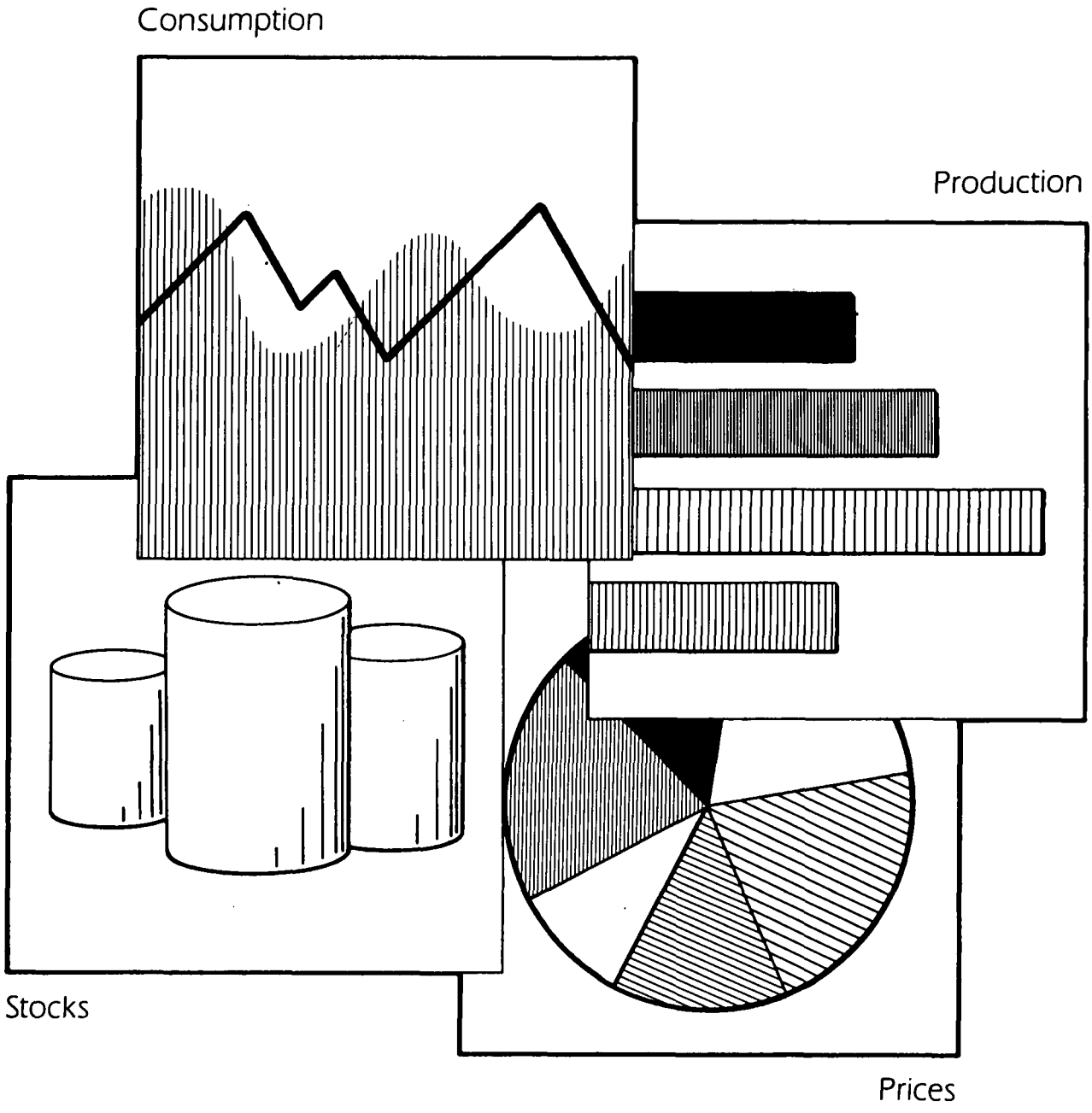

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