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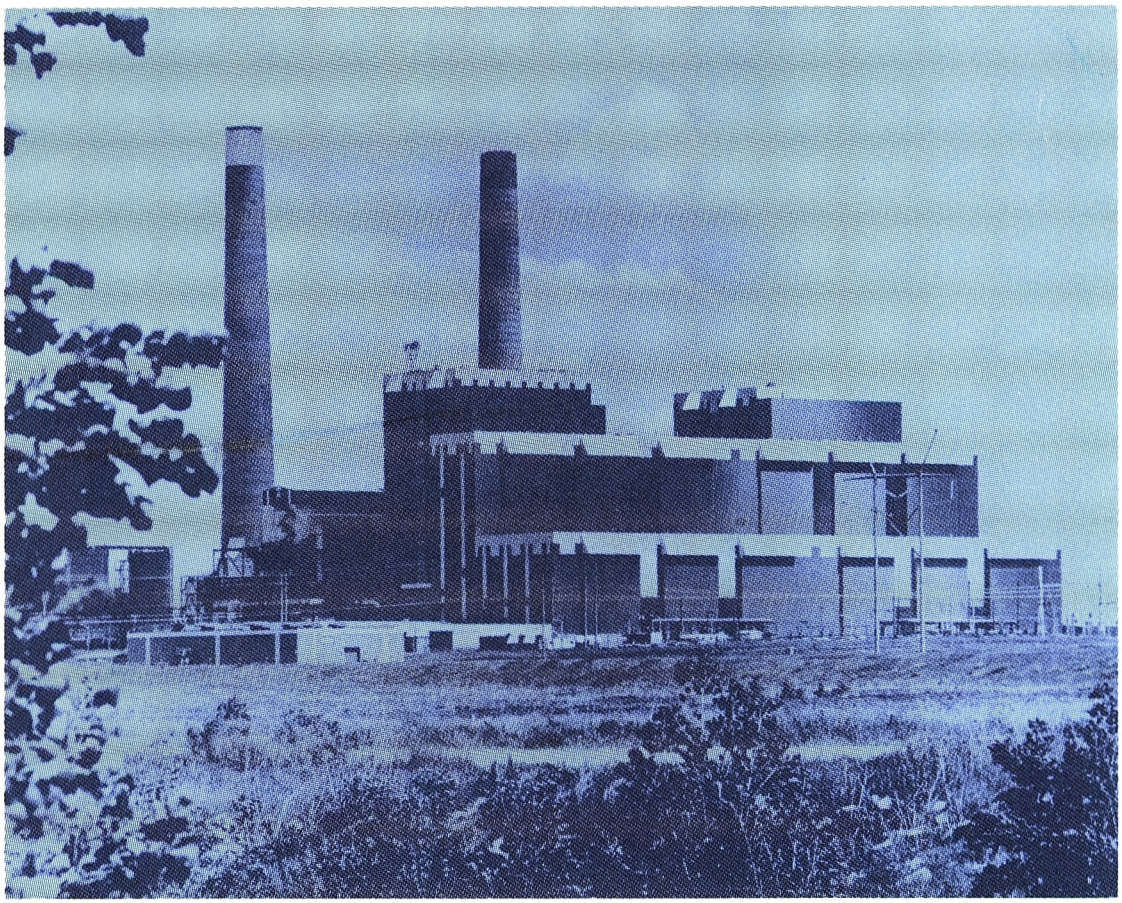
Cost and Quality of Fuels for Electric Utility Plants 1990

August 1991



Energy Information Administration

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Cover Photo

Many electric utilities in the United States use fossil fuels (coal, petroleum, or natural gas) to generate electricity.

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Cost and Quality of Fuels for Electric Utility Plants 1990

August 1991

Energy Information Administration
Office of Coal, Nuclear,
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U. S. Department of Energy
Washington DC 20585

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Preface

The *Cost and Quality of Fuels for Electric Utility Plants (C&Q)* presents an annual summary of statistics at the national, Census division, State, electric utility, and plant levels regarding the quantity, quality, and cost of fossil fuels used to produce electricity. The purpose of this publication is to provide energy decisionmakers with accurate and timely information that may be used in forming various perspectives on issues regarding electric power that may lie ahead.

Background

The *C&Q* is prepared by the Electric Power Division; Office of Coal, Nuclear, Electric and Alternate Fuels; Energy Information Administration (EIA); Department of Energy. This publication provides comprehensive information concerning the quality, quantity, and cost of fossil fuels used to produce electricity in the United States.

The summarized data 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 in this report were collected and published by the EIA, to fulfill its data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (Public Law 93-275) as amended.

Coverage of Sources

Data published in the *C&Q* are compiled from two statistical forms filed by electric utilities -- one monthly, the other annually. These forms are the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"; and the Form EIA-767, "Steam-Electric Plant Operation and Design Report." These surveys are described in Appendix D, "Technical Notes." A brief summary of each of these forms follows.

The FERC Form 423, which is a restricted-universe census, is used to collect monthly data from steam-electric plants with a combined generator nameplate capacity of 50 or more megawatts (approximately 225 electric utilities). The 50-megawatt threshold was established by the FERC. The geographic coverage includes the contiguous United States, Alaska, Hawaii, and the District of Columbia. Electric utilities that report on the FERC Form 423 represent approximately 90 percent of all fossil-fuel generating capacity.

The Form EIA-767 is a survey of all operators of power plants with a fossil-fueled steam-electric existing or planned nameplate capacity of 10 or more megawatts. This form is used to collect data annually on plant operation and equipment design (including boiler, generator, cooling system, flue gas desulfurization units, flue gas particulate collectors, and stack data). Approximately 320 electric utilities provide information regarding approximately 900 power plants on the Form EIA-767. This represents approximately 95 percent of all fossil-fuel generating capacity.

This edition of the *Cost and Quality of Fuels for Electric Utility Plants (C&Q)* has been modified to present the data in a more consistent organization. Although rearranged, the content of prior issues of the C&Q remains.

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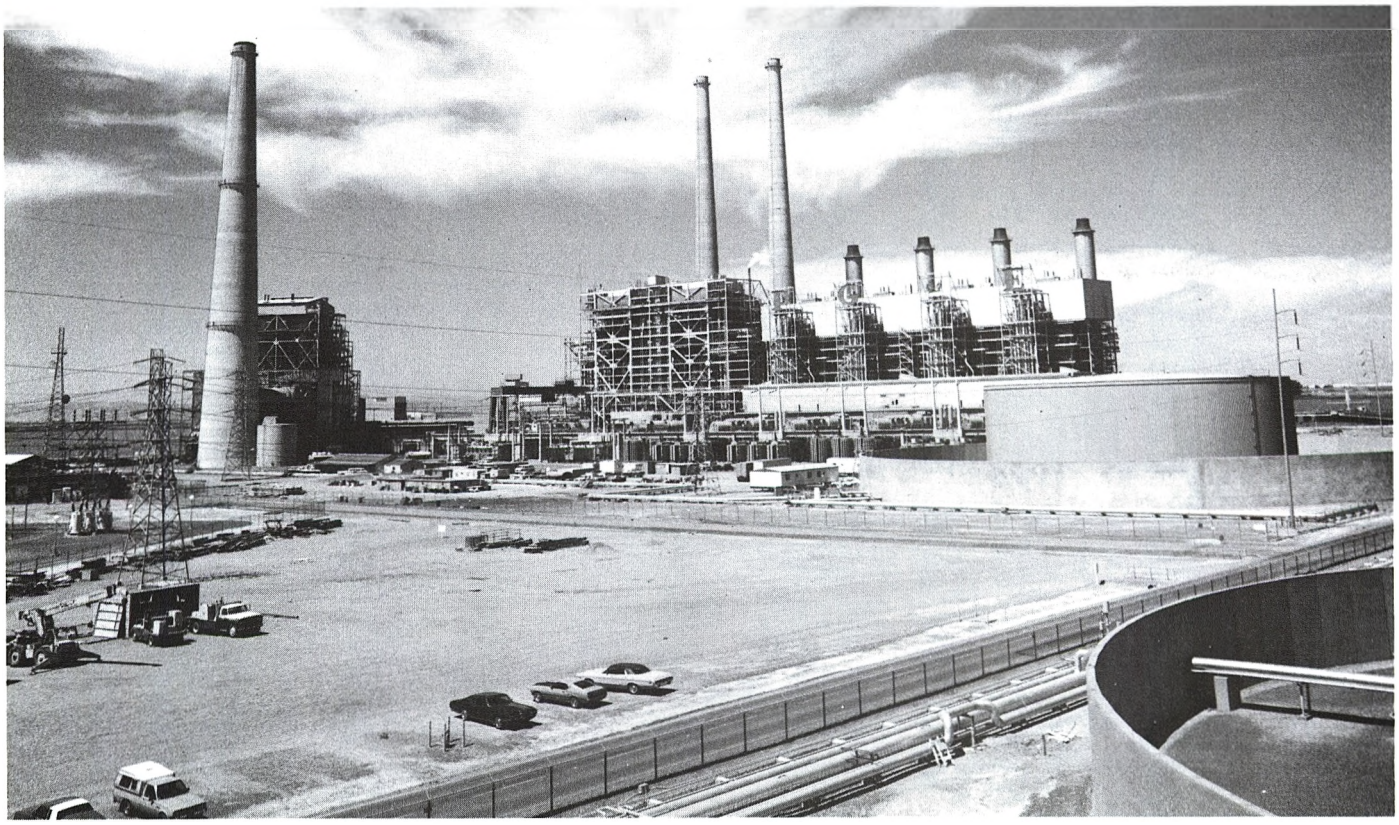
Executive Summary

A review of the fossil fuels deliveries to electric utilities during 1990 compared with 1989 deliveries indicates: (1) an increase in coal receipts, establishing a record level, (2) a decline in petroleum receipts, and (3) an increase in gas receipts. The most notable event affecting the purchase of fossil fuels by electric utilities was the Iraqi invasion of Kuwait, which resulted in a substantial increase in the delivered cost of petroleum.[1] While the invasion had a relatively small effect on the cost of coal and gas delivered to electric utilities, it did impact the quantity of these fuels used at some electric utilities (that is, some utilities purchased less petroleum but more coal or gas).

Moderate weather conditions throughout most of the Nation, coupled with an economic slowdown, resulted in a 2.3-percent increase in 1990 sales of electricity.[2] This was the smallest percentage increase in sales of electricity since 1986, limiting the volume of fossil-fuel receipts at electric utilities. In 1990, coal continued to be the primary fossil fuel consumed by electric utilities; coal consumption during the year at electric utilities increased by 0.6 percent from the 1989 level.[3]



This Pacific Gas and Electric plant burns low-sulfur oil or sulfur-free natural gas.

[1]The delivered cost of fossil fuels includes all costs (including transportation, taxes, etc.) incurred by the electric utility for delivery of the fuel to the plant.

[2]Estimates for sales of electricity are based on data collected on the Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions."

[3]Data on generation, consumption, and stocks of fossil fuels at electric utilities are based on data collected on the Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

The supply of coal available to electric utilities during 1990 was more than adequate to meet their requirements. End-of-year coal stocks at electric utilities increased by 19 million short tons from 1989 levels. Although a decrease in the delivered cost of coal occurred during the second half of 1990 (in part because of an oversupply of coal on the market), the average annual delivered cost of coal increased for the first time since 1984. The 1990 cost, however, was over $4.00 per short ton less than the 1984 cost. Nationwide, the quantity of fossil-fuel receipts at electric utilities was impacted by a 9-percent increase in nuclear-powered generation and a 6-percent increase in hydroelectric generation. In 1990, fossil fuels accounted for 69 percent of all generation; nuclear, 21 percent; and hydroelectric, 10 percent.

Fossil-Fuel Receipts

Coal. In 1990, electric utilities received 787 million short tons of coal (Table ES1). This represented an increase of 33 million short tons from the 1989 level and established a record for the quantity of coal received at electric utilities during one year. Factors contributing to increased coal receipts included the replenishing of coal stocks by electric utilities, higher coal consumption, increased use of low-Btu subbituminous coal, and new coal-fired generating units beginning commercial operation in 1989 and 1990.[4] End-of-year coal stocks totaled 155 million short tons. Coal purchased under contract in 1990 totaled 649 million short tons (Table ES5), an increase of 28 million short tons from 1989. Spot-market purchases of coal increased from 132 million short tons in 1989 to 138 million short tons in 1990.

Petroleum. Electric utilities received 209 million barrels of petroleum in 1990, a decrease of 37 million barrels from 1989 receipts (Table ES1). The highest monthly level of petroleum receipts for 1990 occurred during January (Table ES3), as electric utilities replenished stocks that had been depleted during the extremely cold weather of December 1989 and early January 1990. Petroleum was also purchased by electric utilities during January in anticipation of the continuation of extreme cold weather throughout the winter. However, because the remainder of the winter was surprisingly mild and the spring was temperate, petroleum receipts during February through June were lower than for the same period in 1989. Petroleum receipts during August through December 1990 were also lower than the comparative period in 1989. This decrease in petroleum receipts occurred in response to the significantly higher cost to electric utilities for delivered petroleum that resulted from the heightened tension created by the Iraqi invasion of Kuwait in August 1990.

Table ES1. Receipts of Fossil Fuels by Type of Fuel, 1989-1990

Type of Fuel	1990	1989	Quantitative Difference	Percent Difference
Total Coal (thousand short tons)	**786,627**	**753,217**	**33,410**	**4.4**
Bituminous	477,782	451,341	26,441	5.9
Subbituminous	232,660	226,322	6,338	2.8
Lignite	75,432	74,921	511	.7
Anthracite	753	633	120	19.0
Total Petroleum (thousand barrels)	**209,350**	**246,422**	**-37,072**	**-15.0**
No. 6 Fuel Oil	200,824	235,655	-34,831	-14.8
No. 4 and No. 5 Fuel Oil	1,456	2,013	-557	-27.7
No. 2 Fuel Oil	7,070	8,754	-1,684	-19.2
Total Gas (million cubic feet)	**2,490,979**	**2,472,506**	**18,473**	**.7**
Natural	2,472,890	2,454,633	18,257	.7
Other[1]	18,089	17,873	216	1.2

[1] Includes small quantities of coke-oven gas, refinery and blast-furnace gas.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

[4]Data on new generating units are based on data collected on the Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

End-of-year stocks of petroleum at steam-electric plants totaled 73 million barrels, up 38 percent from the 1989 inventory of 53 million barrels. Consumption of petroleum at steam-electric plants in 1990 totaled 188 million barrels, a decrease of 63 million barrels from the 1989 level. Receipts of Number 6 fuel oil, the primary grade of fuel oil purchased by electric utilities, totaled 201 million barrels in 1990 (Table ES6). This is a decrease of 35 million barrels from 1989 receipts. Receipts of Number 2 fuel oil (primarily used for startup and flame stabilization at steam-electric plants) totaled 7 million barrels in 1990, a decrease of 2 million barrels from the Number 2 fuel oil receipts reported in 1989.

During periods when petroleum costs are high, electric utilities that depend on petroleum to generate electricity usually seek alternate fuels that have relatively lower costs. As petroleum costs increase, these utilities may determine that it is less expensive to purchase electricity produced from coal-burning plants (when access to transmission facilities is available) in lieu of generating electricity with their own petroleum-fired plants. Most of the utilities that are heavily dependent on petroleum for their generating needs are located along the Atlantic seaboard. Electric utilities in the New England, Middle Atlantic, and South Atlantic Census Divisions accounted for 84 percent (177 million barrels) of all petroleum receipts.

Gas. Electric utilities received 2,491 billion cubic feet of gas in 1990, an increase of 18 billion cubic feet from 1989 receipts (Table ES1). During 1990, the total monthly receipts of gas at electric utilities ranged from a high of 304 billion cubic feet in August to a low of 114 billion cubic feet in February (Table ES3). The February level was the lowest monthly total reported for gas receipts since 1983, when the Energy Information Administration began its collection of data on steam-electric plants with a nameplate capacity of 50 or more megawatts. Unseasonably warm weather and priority allocation of gas to residential customers during the month contributed to this unusually low volume of gas.

Fossil-Fuel Costs

Coal. The average cost of coal delivered to electric utilities in 1990 was $30.45 per short ton, an increase of $0.30 per short ton from 1989 (Table ES2). This was the first annual increase in the delivered cost of coal since 1984. Extremely cold weather throughout much of the Nation in December 1989 resulted in higher-than-normal consumption of coal at electric utilities during that month. As a result, 1989 end-of-year coal stocks at electric utilities were at the lowest level since 1978. With the anticipation of a cold winter and the fact that some coal companies were recovering from the 1989 labor unrest, the cost of coal delivered to electric utilities during the first few months of 1990 was relatively high. This was also reflected in the higher delivered cost of coal purchased in the spot market during the first 5 months of 1990 compared with the remainder of 1990. Ultimately, the higher coal costs during the first 5 months of 1990, resulted in an overall annual increase in the cost of coal delivered to electric utilities from 1989 costs.

The average delivered cost of coal purchased under contract increased from $30.38 per short ton in 1989 to $30.74 per short ton in 1990. As has been the case since 1985, the average delivered cost of coal purchased under contract was higher than those for coal purchased in the spot market. This was due primarily to an excess supply of coal, which has been available to electric utilities since the mid-1980's. The cost of coal purchased in the spot market and delivered to electric utilities in 1990 averaged $29.11 per short ton, an increase of $0.05 per short ton from 1989. Nonetheless, the average delivered cost of spot purchases of coal decreased substantially in the latter half of the year, reflecting an oversupply of coal. The average delivered cost of $27.66 per short ton for the month of December 1990 (Tables ES5) was the lowest level for spot-market purchases of coal since May 1979. Many electric utilities took advantage of these historically low prices and depressed market conditions by negotiating long-term contracts covering coal deliveries over the next several years.

Petroleum. The average cost of petroleum delivered to electric utilities in 1990 was $21.28 per barrel, an increase of $3.11 per barrel from 1989 (Table ES2). There were two major reasons for this annual increase. The most important reason was the substantial increase in the cost of petroleum resulting from the Iraqi invasion of Kuwait (the invasion created fears of petroleum supply disruptions, which led to a rapid increase in the price of petroleum). The average cost of petroleum delivered to electric utilities increased from $15.35 per barrel in July 1990 to $28.44 per barrel in October 1990, its highest level during 1990 (Table ES3). However, no apparent shortages in the supply of petroleum to electric utilities occurred during the period. Another reason for the annual increase in petroleum costs was the higher petroleum costs that occurred because of the aftereffects of shortages created during the extreme cold weather in December 1989, as skyrocketing prices lingered through February 1990. In January 1990, the average cost of petroleum delivered to electric utilities was $25.56 per barrel. By June 1990, the average delivered cost of petroleum had fallen to $14.16 per barrel.

Gas. The average cost of gas delivered to electric utilities in 1990 was $2.38 per thousand cubic feet, a decrease of $0.04 per thousand cubic feet from 1989 (Table ES2). During the year, the average monthly delivered cost of gas, per thousand cubic feet, ranged from a high of $2.99 in January to a low of $2.16 in June (Table ES3). Seasonal use of gas by electric utilities is an important influence on the average monthly

cost of gas delivered to electric utilities. Because residential and commercial users of gas are given priority (for heating purposes), less gas is available to electric utilities during the winter months. Most purchases during these months are made under firm contracts (that is, delivery is guaranteed). During warmer months more gas is available since residential and commercial users require less gas. Therefore, more purchases can be made by electric utilities. Many of these additional purchases are made under interruptible contracts (that is, delivery may be interrupted, often in exchange for a reduction in cost to the utility). This may result in a higher volume of gas receipts at lower costs during the warmer months of the year compared with the colder months.

Table ES2. Average Delivered Cost of Fossil Fuels, 1989-1990

Type of Purchase	1990	1989	Difference	Percent Difference
Total Coal (dollars per short ton)	**30.45**	**30.15**	**0.30**	**1.0**
Contract	30.74	30.38	.36	1.2
Spot	29.11	29.07	.05	.2
Total Petroleum (dollars per barrel)	**21.28**	**18.17**	**3.11**	**17.1**
Contract (No. 6 Fuel Oil)	21.02	17.99	3.03	16.8
Spot (No. 6 Fuel Oil)	20.64	17.68	2.96	16.7
Total Gas (dollars per Mcf)	**2.38**	**2.42**	**-.04**	**-1.7**
Firm	2.27	2.34	-.07	-3.0
Interruptible	2.48	2.51	-.03	-1.2

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table ES3. Monthly Receipts and Average Delivered Cost of Fossil Fuels by Type of Fuel, 1990

Month	Coal			Petroleum			Gas			All Fossil Fuels
	Quantity (thousand short tons)	(dollars per short ton)	(cents per million Btu)	Quantity (thousand barrels)	(dollars per barrel)	(cents per million Btu)	Quantity (thousand Mcf)	(dollars per Mcf)	(cents per million Btu)	
January	67,636	30.21	144.6	27,415	25.56	409.6	126,806	2.99	293.8	182.3
February	62,296	30.88	146.6	19,683	21.31	340.7	113,552	2.76	269.3	171.2
March	67,536	30.77	145.7	15,494	18.77	299.3	166,055	2.37	231.0	163.1
April	63,888	31.00	147.3	13,977	16.44	260.4	181,153	2.28	221.7	162.1
May	64,958	31.05	147.8	15,534	15.80	250.6	220,420	2.18	212.5	162.4
June	63,649	30.61	146.6	18,612	14.16	224.1	267,995	2.16	209.3	161.9
July	63,427	29.91	144.6	22,783	15.35	243.8	294,671	2.21	214.6	164.8
August	70,571	30.21	144.5	19,321	21.82	346.2	304,429	2.23	215.9	169.1
September	65,715	30.34	144.7	14,038	25.12	397.8	269,002	2.20	214.3	168.6
October	69,170	30.67	146.2	13,969	28.44	452.4	225,855	2.43	236.8	173.2
November	65,393	30.23	144.8	13,900	27.69	439.0	164,781	2.78	271.9	174.0
December	62,386	29.54	142.4	14,625	27.23	434.0	156,262	2.89	283.1	174.3
1990	**786,627**	**30.45**	**145.5**	**209,350**	**21.28**	**338.4**	**2,490,979**	**2.38**	**232.1**	**168.9**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table ES4. Monthly Receipts and Average Delivered Cost of Coal by Rank, 1990

Month	Bituminous			Subbituminous			Lignite			Anthracite		
	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)
January	41,795	152.9	36.39	19,009	133.4	23.23	6,807	91.9	11.74	25	134.9	26.90
February	39,395	154.0	36.72	17,063	136.7	23.81	5,823	93.6	12.11	16	121.8	24.04
March	42,748	153.4	36.65	18,645	133.1	23.21	6,091	99.2	12.79	52	102.0	17.16
April	39,275	154.9	37.01	19,124	136.3	23.87	5,429	99.0	12.78	60	89.6	13.68
May	40,101	155.0	37.01	18,773	137.0	24.00	6,007	104.8	13.45	77	92.3	13.89
June	38,439	154.6	36.95	18,529	136.4	23.89	6,569	99.7	12.84	113	85.7	13.13
July	36,672	153.7	36.71	19,823	135.7	23.71	6,841	90.3	11.67	91	84.9	13.72
August	42,258	153.2	36.67	21,216	133.0	23.33	7,021	95.0	12.32	77	95.5	15.10
September	39,657	153.4	36.74	19,994	131.1	22.94	5,967	100.7	12.87	97	93.7	14.76
October	42,068	154.2	36.89	20,758	132.7	23.25	6,278	106.6	13.64	66	103.3	17.44
November	38,767	153.9	36.80	20,609	131.1	22.89	5,959	100.1	12.98	58	115.7	19.25
December	36,607	152.6	36.47	19,118	126.2	22.04	6,640	101.1	12.89	21	121.2	20.96
1990	**477,782**	**153.8**	**36.75**	**232,660**	**133.5**	**23.34**	**75,432**	**98.3**	**12.65**	**753**	**97.7**	**15.77**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table ES5. Monthly Receipts and Average Delivered Cost of Coal by Type of Purchase and Mine, 1990

Month	Contract			Spot			Mine Type					
							Surface			Underground		
	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)
January	55,933	148.0	30.31	11,704	129.8	29.72	45,951	136.4	26.36	21,686	158.5	38.36
February	51,134	150.3	31.07	11,162	131.4	30.02	40,900	138.2	26.85	21,397	159.4	38.59
March	55,338	149.5	31.02	12,199	130.3	29.63	44,346	137.4	26.76	23,191	158.5	38.45
April	52,882	151.1	31.21	11,006	130.9	29.95	42,641	139.7	27.15	21,247	159.5	38.72
May	53,970	151.6	31.33	10,988	130.7	29.67	42,760	140.4	27.15	22,198	159.2	38.56
June	52,429	150.9	30.94	11,220	128.5	29.09	43,470	138.6	26.73	20,179	160.2	38.98
July	52,473	148.1	30.07	10,954	129.6	29.16	44,631	136.3	26.14	18,796	160.2	38.86
August	58,919	147.9	30.43	11,653	128.7	29.10	48,040	136.3	26.31	22,532	158.4	38.53
September	54,026	148.9	30.68	11,690	127.3	28.76	44,964	136.2	26.40	20,752	159.4	38.87
October	56,831	150.6	31.13	12,339	127.3	28.53	46,683	137.3	26.62	22,487	160.8	39.07
November	53,759	149.4	30.69	11,634	125.7	28.13	45,208	135.5	26.22	20,185	161.4	39.22
December	50,911	146.5	29.96	11,475	125.5	27.66	42,306	132.1	25.17	20,080	159.4	38.73
1990	**648,604**	**149.4**	**30.74**	**138,023**	**128.8**	**29.11**	**531,898**	**137.0**	**26.48**	**254,729**	**159.5**	**38.74**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table ES6. Monthly Receipts and Average Delivered Cost of Petroleum by Type, 1990

Month	No. 2 Fuel Oil			No. 4 and 5 Fuel Oil			No. 6 Fuel Oil		
	Quantity (thousand barrels)	(cents per million Btu)	(dollars per barrel)	Quantity (thousand barrels)	(cents per million Btu)	(dollars per barrel)	Quantity (thousand barrels)	(cents per million Btu)	(dollars per barrel)
January	933	584.1	33.90	129	342.9	21.14	26,353	404.1	25.29
February	493	445.5	25.95	292	261.5	16.59	18,898	339.4	21.27
March	471	441.8	25.67	83	333.9	20.16	14,940	295.0	18.55
April	456	445.8	25.91	1	251.9	15.34	13,520	254.7	16.12
May	534	429.8	25.02	38	311.6	18.81	14,962	244.6	15.47
June	544	392.7	22.83	95	283.4	17.05	17,973	219.1	13.88
July	634	390.1	22.71	273	301.2	18.10	21,876	239.2	15.11
August	548	537.8	31.38	204	429.0	25.84	18,569	340.1	21.49
September	517	623.8	36.36	10	291.2	17.50	13,510	389.9	24.70
October	715	725.2	42.34	3	396.8	24.37	13,252	438.8	27.69
November	522	688.8	40.06	269	514.2	31.57	13,109	428.4	27.11
December	702	632.8	36.79	60	466.0	28.65	13,863	424.5	26.74
1990	**7,070**	**538.5**	**31.34**	**1,456**	**361.5**	**22.14**	**200,824**	**331.7**	**20.92**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Quality of Coal

The quality of coal delivered to electric utilities in 1990 changed little from the previous year (Table ES7). The average sulfur content increased from 1.33 percent in 1989 to 1.35 percent in 1990. An increase in the quantity or sulfur content of coal mainly from Illinois, Kentucky, Pennsylvania, and West Virginia used by electric utilities in 1990 contributed to the higher overall average sulfur content in total coal receipts for the year.

The coal with the lowest average sulfur content (0.38 percent by weight) originated in Wyoming, while coal from Missouri had the highest average sulfur content (4.18 percent by weight). Coal from the northern Appalachian Region (Pennsylvania, Ohio, Maryland, and northern West Virginia) and from the Interior Region (Illinois, Indiana, Iowa, Kansas, Missouri, and western Kentucky) contained the highest percentage of sulfur. The sulfur content for Interior Region coal ranged generally between 1.5 and 4.5 percent. Receipts of coal from the southern Appalachian Region (Virginia, southern West Virginia, and eastern Kentucky) ranged between 0.5 and 2.0 percent in sulfur content, while receipts of coal from the western United States generally contained up to 1.0 percent.

During the past several years, increasing amounts of low-sulfur lignite and western subbituminous coal have contributed significantly to reducing the average sulfur content of coal delivered to electric utilities. Most of this coal is delivered to power plants located in the central and western United States. Some western coal is now being shipped to electric plants in the eastern United States. Although the cost of transporting coal across this distance is expensive, the relatively low cost of mining western coal results in a delivered cost that is competitive with that of eastern low-sulfur coal.

In 1990, the Georgia Power Company, Tennessee Valley Authority, and the Alabama Power Company were among several utilities that received low-sulfur subbituminous coal from Wyoming for testing. If test burns of this coal are successful, many electric utilities will have a source of low-sulfur coal that will be needed to comply with the Clean Air Act Amendments of 1990. The amended Act requires that electric utilities reduce the emissions of flue-stack gases (such as sulfur dioxide and nitrogen oxide) from their power plants. In this regard, electric utilities have a variety of options available to them. The three primary options are the installation of Flue Gas Desulfluization (FGD) systems, use of lower sulfur fuels, and purchase of emission allowances.[5]

In the first primary option, electric utilities can reduce emissions through the use of FGD systems, commonly referred to as "scrubbing." With this option, the sulfur content of the coal received and consumed is not critical, since the FGD system will remove the pollutants from the flue gas before they are emitted into the air. However, FGD systems are expensive to build and operate, relative to other options. (Data on the amount of operating capacity with FGD equipment are provided in Appendix A.) The second primary option, which involves switching to a low-sulfur coal, can also be expensive because low-sulfur (compliance) coal mined in the eastern United States usually commands

[5]For a more detailed discussion regarding the options available to electric utilities for complying with the Clean Air Act Amendments of 1990, see the Energy Information Administration, *Annual Outlook for U.S. Electric Power 1991*, DOE/EIA-0474(91)(Washington, D.C., July 1991).

premium prices. During 1990, several electric utilities blended, tested and evaluated new ranks and sources of coal to determine the potential for this option. In the third primary option, electric utilities can purchase sulfur dioxide emission permits from other electric utilities or via a mandatory auction.

The average heat content of coal delivered to electric utilities in 1990 was 10,465 Btu per pound, an increase from the 10,425 Btu per pound reported in 1989. Coal originating in Virginia rated the highest in Btu content, averaging 12,951 Btu per pound. Texas lignite rated the lowest in Btu content, at 6,332 Btu per pound. Subbituminous coal originating in the Powder River Basin (located in Montana and Wyoming) ranged approximately from 8,000 to 9,500 Btu per pound. This was 2,000 to 3,000 Btu per pound less than the heat content of bituminous coal mined in the eastern United States.

The average ash content of coal delivered to electric utilities in 1990 was 9.85 percent, a decrease from the 9.93 percent reported in 1989. Ash (any noncombustible material contained in coal) adds to the cost of transporting coal, and its removal requires a method, as well as a place, for its disposal. On a State-by-State basis, coal from Wyoming contained the least amount of ash (5.6 percent) of any coal delivered to electric utilities during 1990. Coal obtained from Washington, Texas, and New Mexico during the year had an average ash content above 15 percent.

Table ES7. Average Quality of Coal by State of Origin, 1989-1990

State of Origin	Btu (per pound)		Sulfur (percent by weight)		Ash (percent by weight)	
	1990	1989	1990	1989	1990	1989
Alabama	12,190	12,151	1.34	1.35	12.39	12.37
Arizona	11,015	11,041	.50	.50	9.17	8.95
Colorado	10,694	10,667	.41	.41	8.67	8.19
Illinois	11,179	11,162	2.71	2.63	9.54	9.55
Indiana	11,104	11,107	2.55	2.56	9.26	9.29
Iowa	10,128	10,213	3.33	3.66	11.76	10.17
Kansas	12,074	10,766	3.14	3.99	12.02	17.67
Kentucky	12,126	12,104	1.80	1.79	10.19	10.25
Louisiana	6,881	6,858	.55	.54	12.50	12.18
Maryland	12,612	12,512	1.61	1.64	12.62	12.95
Missouri	10,570	10,487	4.18	4.50	10.05	13.01
Montana	9,012	8,973	.53	.54	7.09	7.17
New Mexico	9,349	9,384	.70	.70	19.47	19.08
North Dakota	6,586	6,541	.82	.74	9.19	9.03
Ohio	11,717	11,688	3.34	3.27	11.28	11.31
Oklahoma	12,417	12,313	1.77	2.14	9.63	10.38
Pennsylvania	12,366	12,395	1.82	1.75	12.75	12.64
Tennessee	12,623	12,548	1.44	1.35	9.87	9.97
Texas	6,332	6,272	1.00	.97	16.39	16.74
Utah	11,592	11,438	.50	.50	10.17	11.35
Virginia	12,951	12,896	1.14	1.14	9.42	9.41
Washington	8,104	8,106	.73	.71	15.33	14.74
West Virginia	12,524	12,497	1.64	1.60	10.68	10.73
Wyoming	8,669	8,664	.38	.38	5.61	5.62
Subtotal	10,462	10,422	1.35	1.33	9.86	9.93
Imported	**12,155**	**12,165**	**.72**	**.69**	**6.57**	**6.79**
Total	10,465	10,425	1.35	1.33	9.85	9.93

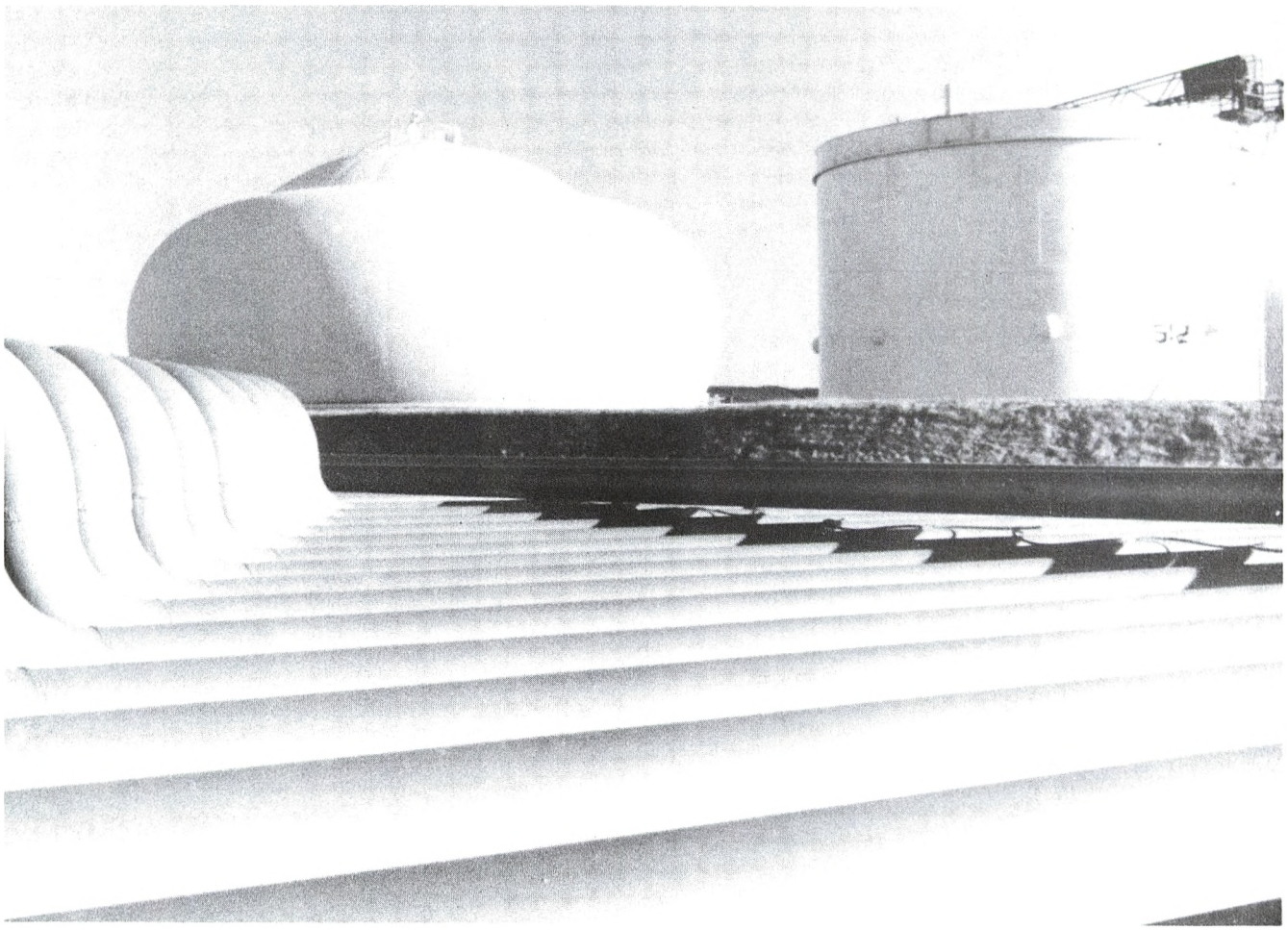
Note: Totals may not equal sum of components because of independent rounding.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Fossil-Fuel Data at the Census Division and State Level

Coal

Receipts of coal at the Census division and the State level changed substantially from those in 1989 (Table 6). On a volume basis, the largest increase in receipts of coal occurred in the East North Central Census Division. Total 1990 receipts of coal in this division were 175 million short tons, an increase of 13 million short tons from 1989. Consumption of coal in this division increased by 5 million short tons, while end-of-year stocks of coal rose by 6 million short tons. Nuclear-powered generation, which can have a significant effect on coal receipts, decreased by 4 percent in this division in 1990. Coal-fired net generation increased by 2 percent. The East North Central Census Division received 43.7 million short tons of subbituminous coal from the western United States (Table 9), an increase of 16 percent from 1989.

Most of the increase in receipts of coal in the East North Central Census Division occurred in Indiana, where coal receipts totaled 49 million short tons. This was an increase of 9 million short tons from 1989. Larger purchases of coal by the Public Service Company of Indiana and the Indiana Michigan Power Company accounted for most of the higher level of receipts. The amount of coal received by electric utilities in Ohio was 51 million short tons (Figure 1), an increase of 2 million short tons from 1989. Although Texas received the largest tonnage (84 million short tons), the 51 million short tons of coal delivered to electric plants located in Ohio ranked highest in terms of total coal Btu (heat) content (Table 23).



These pipelines carry petroleum to storage tanks.

Coal received by the East South Central Census Division totaled 83 million short tons, an increase of 9 million short tons from 1989. Coal consumption grew by 4 million short tons, while end-of-year stocks of coal rose by 4 million short tons (36 percent). Coal-fired net generation increased by 5 percent, while decreases of 4 percent and 22 percent, respectively, in nuclear-powered and hydroelectric generation were reported. Data on receipts for this division are heavily influenced by the Tennessee Valley Authority, which was the largest producer of electricity in the Nation in 1990. Kentucky received 35 million short tons of coal, an increase of 4 million short tons from 1989. This increase was used chiefly to replenish stocks; end-of-year coal stocks in Kentucky grew by over 3 million tons (77 percent) from 1989.

Coal receipts in the South Atlantic Census Division totaled 135 million short tons, an increase of 7 million short tons from 1989. Receipts of coal in West Virginia were 33 million short tons, 2 million short tons above 1989. Coal consumption in this State, however, decreased by 3 million short tons to 30 million short tons, resulting in an increase in end-of-year coal stocks of 3 million short tons. Receipts of coal in Georgia totaled 28 million short tons, an increase of 2 million short tons from 1989 (attributable to increased receipts at the Georgia Power Company). Coal consumption in Georgia also grew by 2 million short tons (8 percent), with a 7-percent increase in coal-fired generation; nuclear-powered generation decreased by 1 percent. Coal received in Virginia declined by 1 million short tons, due in part to a 67-percent increase in nuclear-powered generation after the return to service of the Virginia Electric & Power Company's Surry and North Anna nuclear power plants.

Although receipts of coal in the Middle Atlantic Census Division rose by 2 million short tons, a substantial increase in its nuclear-powered generation contributed to a decrease in this division's coal-fired generation and coal consumption. End-of-year coal stocks in 1990 grew by 33 percent (4 million short tons).

The average cost of coal delivered to the New England Census Division was $47.38 per short ton, the highest delivered cost of coal among all Census divisions (Table 7). Most of the coal delivered to the New England Census Division was high-Btu coal from the southern and central portions of the Appalachian Region (Kentucky, Virginia, and West Virginia). The cost of transporting this coal to the New England Census Division added substantially to its delivered cost. The average cost of coal delivered to Connecticut was the highest among all States at $56.35 per short ton (Figure 2). In addition, the coal delivered to Connecticut had an average sulfur content of 0.54 percent, the lowest value for the States in the New England Census Division (Table 34).

The lowest average cost of coal at the Census division level was $19.66 per short ton for coal delivered to electric utilities in the West North Central Census Division. A large percentage of the coal delivered to States in this Census division originated in Wyoming and Montana and was delivered to electric plants by unit train. A combination of low-mining costs for western coal and efficient transportation methods resulted in a relatively low average delivered cost. In addition, the low cost of lignite purchased by electric utilities in North Dakota reduced the average delivered cost for the division. The use of lignite-fired plants by electric utilities in North Dakota led to its having the lowest average delivered cost ($9.10 per short ton) for coal at the State level. The average delivered cost of coal to Wyoming and Montana in 1990 was $14.74 and $11.47 per short ton, respectively. The plants located in these States generally were built near the coal mines, thereby reducing transportation costs.

Petroleum

Receipts of petroleum at electric utilities totaled 209 million barrels in 1990 (Table 2), a decrease of 37 million barrels from 1989. The level of petroleum receipts decreased in every Census division except the Pacific Contiguous and Pacific Noncontiguous Census Divisions (Table 12). The Middle Atlantic, South Atlantic, and New England Census Divisions accounted for 84 percent (177 million barrels) of total U.S. petroleum receipts at electric utilities in 1990.

At the State level (Figure 3), New York ranked highest in quantity of petroleum received, at 60 million barrels, followed by Florida (43 million barrels) and Massachusetts (25 million barrels). Due primarily to the higher cost of petroleum (Table 13), consumption of petroleum decreased in every Census division in 1990. Petroleum-fired steam generation also decreased in every division except the East South Central Census Division, which uses petroleum for less than 1 percent of its total generation. Ultimately, a nationwide reduction in the use of petroleum led to a reduction in the quantity of petroleum received. However, receipts of petroleum did outpace its consumption in most Census divisions, resulting in a 20-million-barrel increase in end-of-year stocks of petroleum at steam-electric plants, nationally. Receipts of petroleum in Florida increased by 2 million barrels from 1989, primarily as a result of larger purchases by the Florida Power & Light Company and, to a lesser extent, the Orlando Utilities Commission. A notable increase in receipts of petroleum at the Southern California Edison Company resulted in an overall increase in receipts for California.

The average delivered cost of petroleum is dependent primarily on three factors: the type of fuel oil purchased, the quality (sulfur content) of the fuel oil, and the supply of and demand for petroleum. These factors result in a wide variation in the average delivered cost of petroleum at the State and Census division level.

Fuel oil Number 2 is more expensive than fuel oil Number 6, and low-sulfur fuel oil is generally more expensive than high-sulfur fuel oil. On the average, fuel oil purchased during April through July 1990 was considerably less expensive than fuel oil purchased during the rest of the year (Table 17). During January through March 1990, high costs for petroleum resulted from higher petroleum consumption due to severe cold weather in December 1989. However, during August through December 1990, the perception that the supply of petroleum might be constrained by the Middle East crisis led to higher petroleum costs.

The lowest average delivered cost at the State level was $14.71 per barrel for petroleum delivered to New Hampshire (Figure 4). Nearly all of this petroleum was high-sulfur Number 6 fuel oil. In addition, a substantial proportion of the fuel oil was purchased during April through July, resulting in a low average cost. In comparison, Nebraska reported the highest average delivered cost at $40.78 per barrel. All receipts of petroleum in the State were Number 2 fuel oil.

In fact, the average delivered cost, in most States that received only Number 2 fuel oil, was more than $30.00 per barrel (Tables 14 and 15), well above the national average delivered cost of $21.28 per barrel of petroleum. The average delivered cost of petroleum to electric utilities in California was also considerably above the national average delivered cost, since its receipts consisted primarily of low-sulfur fuel oil Number 6 that California requires its electric utilities to purchase for environmental reasons.

Gas

Receipts of gas at electric utilities totaled 2,491 billion cubic feet in 1990 (Table 3), an increase of 18 billion cubic feet from 1989. The West South Central and Pacific Contiguous Census Divisions accounted for 73 percent (1,809 billion cubic feet) of all receipts of gas (Table 18). Receipts of gas in the West South Central Census Division were virtually unchanged from 1989, while receipts of gas in the Pacific Contiguous Census Division decreased by 11 percent. In 1990, California reported a considerable decline in gas-fired, petroleum-fired, and hydroelectric generation, while nuclear-powered generation increased only slightly. Since sales rose by 3.8 percent, this implies that electric utilities in this State probably purchased power from neighboring States.

Receipts of gas in the Middle Atlantic Census Division totaled 253 billion cubic feet, an increase of 42 billion cubic feet from 1989. Cost and availability of gas are two primary factors that determine the total receipts of gas in this Census division, because electric utilities in the Middle Atlantic have considerable flexibility for switching between petroleum and gas as a primary fuel. Electric utilities use the fuel that is least expensive and most readily available (based on pipeline capacity and the priority for the use of gas by other customers). In 1990, gas was less expensive than petroleum, and apparently more available to electric utilities, such as the Long Island Lighting Company and the Consolidated Edison Company of New York. Gas receipts in New York accounted for the increase in receipts in the Middle Atlantic Census Division.

The average delivered cost of gas fell by $0.04 cents per thousand cubic feet in 1990 to a level of $2.38 per thousand cubic feet (Table 19). The lowest average delivered cost occurred in Michigan (Figure 6), due to a substantial quantity of low-Btu blast-furnace gas being delivered to the Detroit Edison Company. The highest average cost was $5.13 per thousand cubic feet for gas delivered to West Virginia. Receipts of gas in West Virginia were 169 million cubic feet (Figure 5). This gas is used primarily for start-up and flame stabilization at some of the larger coal-fired plants. It is not unusual for a low volume of gas receipts (such as in West Virginia) to be delivered to electric plants at a relatively high cost, because the allocation of the fixed costs associated with pipeline deliveries of gas are based on the volume of deliveries. The cost of gas delivered to electric utilities in Texas averaged $2.18 per thousand cubic feet, a decrease of $0.05 per thousand cubic feet. Receipts of gas in Texas accounted for 39 percent of all gas delivered to electric utilities.

Table 1. Receipts and Average Delivered Cost of Coal, 1986-1990

Type of Purchase	1990	1989	1988	1987	1986
Receipts					
(Thousand Short Tons)					
Contract	648,604	620,927	627,779	610,194	601,012
Spot	138,023	132,289	99,996	111,104	85,952
Total	**786,627**	**753,217**	**727,775**	**721,298**	**686,964**
Costs					
(Dollars per Short Ton)					
Contract	30.74	30.38	30.86	32.01	33.51
Spot	29.11	29.07	29.30	30.86	31.81
Total	**30.45**	**30.15**	**30.64**	**31.83**	**33.30**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 2. Receipts and Average Delivered Cost of Petroleum, 1986-1990

Type of Purchase	1990	1989	1988	1987	1986
Receipts (Thousand Barrels)					
Contract	149,795	180,128	167,776	152,305	169,838
Spot	59,555	66,294	69,148	41,985	58,684
Total	**209,350**	**246,422**	**236,924**	**194,290**	**228,522**
Costs					
(Dollars per Barrel)					
Contract	21.27	18.17	15.36	19.15	15.56
Spot	21.30	18.17	15.25	18.73	14.54
Total	21.28	18.17	15.33	19.06	15.30

Notes: • Totals may not equal sum of components because of independent rounding. • Totals do not include small quantities of Kerosene. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 3. Receipts and Average Delivered Cost of Gas, 1986-1990

Type of Purchase	1990	1989	1988	1987	1986
Receipts					
(Million Cubic Feet)					
Firm Gas	1,115,577	1,220,395	1,326,461	1,342,719	1,462,098
Interruptible Gas	1,339,993	1,227,384	1,009,097	1,230,042	900,896
Off-Peak Gas	35,408	24,727	27,162	32,431	24,628
Total	**2,490,979**	**2,472,506**	**2,362,721**	**2,605,191**	**2,387,622**
Costs					
(Dollars per Thousand Cubic Feet)					
Firm Gas	2.27	2.34	2.22	2.30	2.41
Interruptible Gas	2.48	2.51	2.48	2.32	2.48
Off-Peak Gas	2.28	2.33	2.18	2.28	2.16
Total	**2.38**	**2.42**	**2.33**	**2.31**	**2.43**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4. Receipts of Coal by Rank, 1986-1990

Rank	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per Million Btu)	(dollars per short ton)
1990						
Anthracite	753	8,070	0.71	32.7	97.7	15.77
Bituminous	477,782	11,945	1.86	10.5	153.8	36.75
Subbituminous	232,660	8,741	.43	7.2	133.5	23.34
Lignite	75,432	6,433	.92	14.0	98.3	12.65
Total	**786,627**	**10,465**	**1.35**	**9.85**	**145.5**	**30.45**
1989						
Anthracite	633	8,153	.63	32.2	96.0	15.65
Bituminous	451,341	11,936	1.85	10.5	152.6	36.43
Subbituminous	226,322	8,757	.44	7.3	134.7	23.59
Lignite	74,921	6,380	.88	14.1	95.8	12.22
Total	**753,217**	**10,425**	**1.33**	**9.93**	**144.6**	**30.15**
1988						
Anthracite	725	8,656	.57	33.1	92.9	16.08
Bituminous	433,063	11,995	1.84	10.4	154.2	37.00
Subbituminous	220,536	8,772	.45	7.3	138.1	24.23
Lignite	73,451	6,404	.83	14.0	98.0	12.55
Total	**727,775**	**10,451**	**1.32**	**9.88**	**146.6**	**30.64**
1987						
Anthracite	758	7,981	.58	34.0	85.0	13.57
Bituminous	439,865	12,018	1.92	10.5	157.6	37.87
Subbituminous	213,643	8,909	.44	7.5	141.4	25.19
Lignite	67,032	6,377	.84	14.2	106.2	13.54
Total	**721,298**	**10,569**	**1.38**	**10.00**	**150.6**	**31.83**
1986						
Anthracite	536	7,789	.61	33.5	81.0	12.62
Bituminous	416,654	11,983	1.94	10.6	164.4	39.39
Subbituminous	205,368	8,925	.45	7.6	152.6	27.24
Lignite	64,406	6,415	.81	13.6	104.0	13.34
Total	**686,964**	**10,543**	**1.39**	**9.98**	**157.9**	**33.30**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 5. Receipts of Coal by Mine Type, 1986-1990
(Thousand Short Tons)

Mine Type	1990	1989	1988	1987	1986
Surface	531,898	516,886	505,568	493,491	477,083
Underground	254,729	236,331	222,207	227,807	209,881
Total	**786,627**	**753,217**	**727,775**	**721,298**	**686,964**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 6. Receipts of Coal by Census Division and State, 1986-1990
(Thousand Short Tons)

Census Division and State	1990	1989	1988	1987	1986
New England	**6,345**	**6,326**	**6,377**	**5,774**	**5,718**
Connecticut	954	875	830	770	817
Maine	-	-	-	-	-
Massachusetts	4,120	4,387	4,285	3,889	3,948
New Hampshire	1,271	1,064	1,262	1,115	952
Rhode Island	-	-	-	-	-
Vermont	-	-	-	-	-
Middle Atlantic	**58,200**	**55,969**	**51,532**	**53,855**	**49,714**
New Jersey	2,835	3,324	2,477	2,691	2,579
New York	10,568	9,879	8,562	8,131	6,296
Pennsylvania	44,796	42,766	40,493	43,033	40,838
East North Central	**174,585**	**161,663**	**155,300**	**162,093**	**161,293**
Illinois	26,456	25,067	26,920	28,509	32,966
Indiana	49,194	40,560	36,414	38,682	36,890
Michigan	29,688	28,996	28,344	29,889	27,148
Ohio	51,436	49,505	46,008	48,385	47,473
Wisconsin	17,811	17,535	17,613	16,629	16,815
West North Central	**103,252**	**100,899**	**99,540**	**89,342**	**81,067**
Iowa	15,639	14,316	13,974	13,786	11,384
Kansas	15,772	14,725	14,798	15,033	13,903
Minnesota	16,559	16,176	15,451	12,793	9,324
Missouri	24,351	24,788	23,959	22,533	21,241
Nebraska	7,940	7,473	7,485	6,327	5,781
North Dakota	20,915	21,359	21,714	18,128	17,568
South Dakota	2,078	2,063	2,160	741	1,866
South Atlantic	**134,943**	**128,322**	**120,976**	**129,920**	**120,826**
Delaware	2,192	1,918	2,525	2,422	2,296
District of Columbia	-	-	-	-	-
Florida	24,288	23,375	23,770	22,553	18,311
Georgia	27,888	25,434	25,135	26,351	27,329
Maryland	10,002	8,494	8,854	8,187	7,807
North Carolina	19,606	18,413	16,795	17,829	19,145
South Carolina	9,388	9,805	9,002	9,354	7,609
Virginia	8,488	9,739	7,459	8,907	7,334
West Virginia	33,092	31,143	27,436	34,317	30,995
East South Central	**82,726**	**73,798**	**73,868**	**78,047**	**77,064**
Alabama	22,208	21,311	19,895	20,739	22,181
Kentucky	35,151	30,733	29,344	31,771	28,148
Mississippi	3,921	3,455	4,870	4,430	4,201
Tennessee	21,446	18,300	19,759	21,107	22,535
West South Central	**120,651**	**121,925**	**117,144**	**111,029**	**105,426**
Arkansas	10,939	11,502	11,907	11,709	11,856
Louisiana	11,593	11,594	12,078	10,627	10,093
Oklahoma	14,471	14,635	13,355	12,124	12,007
Texas	83,649	84,195	79,803	76,568	71,470
Mountain	**99,912**	**98,709**	**97,184**	**86,382**	**81,198**
Arizona	15,385	15,244	14,121	12,714	12,886
Colorado	15,343	15,752	14,949	13,367	13,421
Idaho	-	-	-	-	-
Montana	9,519	10,224	10,474	7,596	7,498
Nevada	7,477	7,067	7,886	6,893	7,614
New Mexico	15,241	15,238	14,522	14,176	13,764
Utah	14,014	13,385	12,256	11,801	7,378
Wyoming	22,932	21,798	22,976	19,834	18,636
Pacific Contiguous	**6,012**	**5,606**	**5,856**	**4,856**	**4,659**
California	-	-	-	-	-
Oregon	968	-	235	377	-
Washington	5,044	5,606	5,621	4,479	4,659
Pacific Noncontiguous	-	-	-	-	-
Alaska	-	-	-	-	-
Hawaii	-	-	-	-	-
Total	**786,627**	**753,217**	**727,775**	**721,298**	**686,964**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 7. Average Delivered Cost of Coal by Census Division and State, 1986-1990

Census Division and State	1990	1989	1988	1987	1986	1990	1989	1988	1987	1986
	(cents per million Btu)					(dollars per short ton)				
New England	**180.3**	**169.9**	**173.2**	**178.1**	**188.4**	**47.38**	**44.54**	**45.59**	**46.95**	**49.92**
Connecticut	212.9	213.7	228.6	242.0	227.1	56.35	56.88	60.07	63.56	59.83
Maine	-	-	-	-	-	-	-	-	-	-
Massachusetts	173.4	160.2	161.2	161.4	177.8	45.30	41.68	42.25	42.37	47.00
New Hampshire	178.1	172.8	177.7	191.8	199.0	47.39	46.18	47.38	51.47	53.51
Rhode Island	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**155.4**	**148.9**	**148.8**	**147.6**	**153.1**	**38.56**	**37.03**	**36.92**	**36.61**	**37.90**
New Jersey	180.1	175.8	171.7	176.8	180.8	48.37	46.84	45.75	46.80	47.84
New York	161.3	157.2	158.1	154.3	164.9	41.45	40.32	40.52	39.46	41.96
Pennsylvania	152.2	144.6	145.3	144.3	149.3	37.25	35.50	35.62	35.43	36.65
East North Central	**150.9**	**154.4**	**160.4**	**164.2**	**174.6**	**33.17**	**34.10**	**35.70**	**36.62**	**38.69**
Illinois	175.1	181.1	190.6	200.0	212.2	37.79	38.78	40.53	42.80	44.71
Indiana	136.2	135.9	143.2	146.7	157.8	28.78	29.08	31.03	31.93	33.70
Michigan	159.9	172.1	175.7	175.3	181.2	35.60	38.83	40.80	40.55	42.48
Ohio	151.5	148.7	152.2	156.0	162.9	36.01	35.21	36.22	37.15	38.80
Wisconsin	135.8	144.8	146.4	147.2	162.4	26.18	28.10	28.39	28.35	31.37
West North Central	**113.0**	**114.4**	**115.4**	**120.5**	**127.7**	**19.66**	**19.85**	**20.11**	**21.23**	**22.41**
Iowa	111.8	121.8	123.5	124.6	137.2	19.89	21.77	22.74	22.81	25.20
Kansas	124.2	123.9	123.9	126.7	131.9	22.23	22.00	22.25	22.22	23.02
Minnesota	125.2	119.8	119.6	120.6	136.0	22.00	21.01	20.91	21.09	23.74
Missouri	134.8	135.0	138.2	141.3	146.6	28.03	28.00	28.75	29.96	31.35
Nebraska	75.2	82.7	84.1	94.5	104.0	12.88	14.32	14.49	16.26	18.12
North Dakota	68.6	69.4	70.3	79.3	82.1	9.10	9.13	9.26	10.46	10.81
South Dakota	114.6	124.1	121.4	123.4	124.1	13.97	15.24	15.39	14.95	15.10
South Atlantic	**168.9**	**165.8**	**166.5**	**166.5**	**174.0**	**41.86**	**41.19**	**41.54**	**41.50**	**43.28**
Delaware	181.5	179.3	180.6	181.1	191.4	47.31	46.41	46.60	47.33	49.75
District of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	184.9	178.7	177.7	181.4	192.9	45.72	44.26	44.16	44.98	47.36
Georgia	178.6	177.5	174.7	178.9	180.9	42.48	42.96	42.53	43.56	43.95
Maryland	164.7	161.1	157.6	157.7	166.6	41.96	40.92	40.12	39.97	42.28
North Carolina	178.0	177.0	177.5	179.0	184.8	44.64	44.35	44.65	44.92	46.40
South Carolina	172.0	170.7	176.0	174.0	182.5	43.54	43.08	44.63	44.01	46.23
Virginia	154.5	154.8	155.1	158.1	170.6	39.29	39.29	39.72	40.52	43.86
West Virginia	147.2	142.5	144.1	142.2	149.7	36.66	35.33	35.95	35.38	37.25
East South Central	**143.3**	**142.9**	**148.4**	**151.2**	**158.4**	**33.98**	**33.73**	**35.36**	**35.95**	**37.59**
Alabama	184.3	186.5	194.7	192.4	191.0	44.58	44.84	47.37	47.04	46.51
Kentucky	119.3	113.7	119.8	125.8	133.8	27.58	26.13	27.61	28.94	30.84
Mississippi	165.4	167.1	181.2	195.5	229.4	41.49	42.29	45.88	49.56	56.11
Tennessee	134.2	134.3	133.5	136.7	141.9	32.12	31.94	32.17	32.74	33.79
West South Central	**148.8**	**147.5**	**149.5**	**156.2**	**158.7**	**22.91**	**22.69**	**23.08**	**23.92**	**24.38**
Arkansas	161.1	163.1	158.5	155.2	156.3	28.17	28.45	27.47	26.94	27.10
Louisiana	169.5	162.7	155.5	164.4	179.4	27.78	26.64	25.48	26.84	29.14
Oklahoma	140.4	136.1	148.2	155.7	163.7	24.98	24.03	26.42	27.56	28.36
Texas	145.3	144.9	147.2	155.2	154.9	21.19	21.12	21.50	22.48	22.59
Mountain	**113.3**	**111.6**	**109.5**	**112.1**	**115.7**	**22.19**	**21.80**	**21.32**	**22.01**	**22.47**
Arizona	143.0	136.0	140.5	129.9	136.4	29.98	28.81	29.92	27.56	28.70
Colorado	106.1	106.4	106.6	111.8	117.5	20.81	20.95	20.84	22.01	22.96
Idaho	-	-	-	-	-	-	-	-	-	-
Montana	67.0	57.7	54.5	64.8	67.4	11.47	9.81	9.29	11.12	11.53
Nevada	149.1	152.0	136.3	139.9	139.1	33.16	33.80	30.21	31.28	31.23
New Mexico	131.8	123.8	117.5	120.8	113.3	24.03	22.61	21.24	21.87	20.64
Utah	116.7	123.9	126.5	125.2	140.7	26.80	28.05	29.07	29.09	32.32
Wyoming	83.6	84.5	84.0	87.0	92.2	14.74	14.86	14.71	15.27	16.06
Pacific Contiguous	**149.4**	**155.6**	**154.5**	**164.9**	**168.6**	**24.42**	**25.40**	**25.41**	**26.82**	**27.31**
California	-	-	-	-	-	-	-	-	-	-
Oregon	107.9	-	139.0	140.2	-	18.02	-	23.70	23.78	-
Washington	157.6	155.6	155.2	167.1	168.6	25.64	25.40	25.48	27.08	27.31
Pacific Noncontiguous	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-
Total	**145.5**	**144.6**	**146.6**	**150.6**	**157.9**	**30.45**	**30.15**	**30.64**	**31.83**	**33.30**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

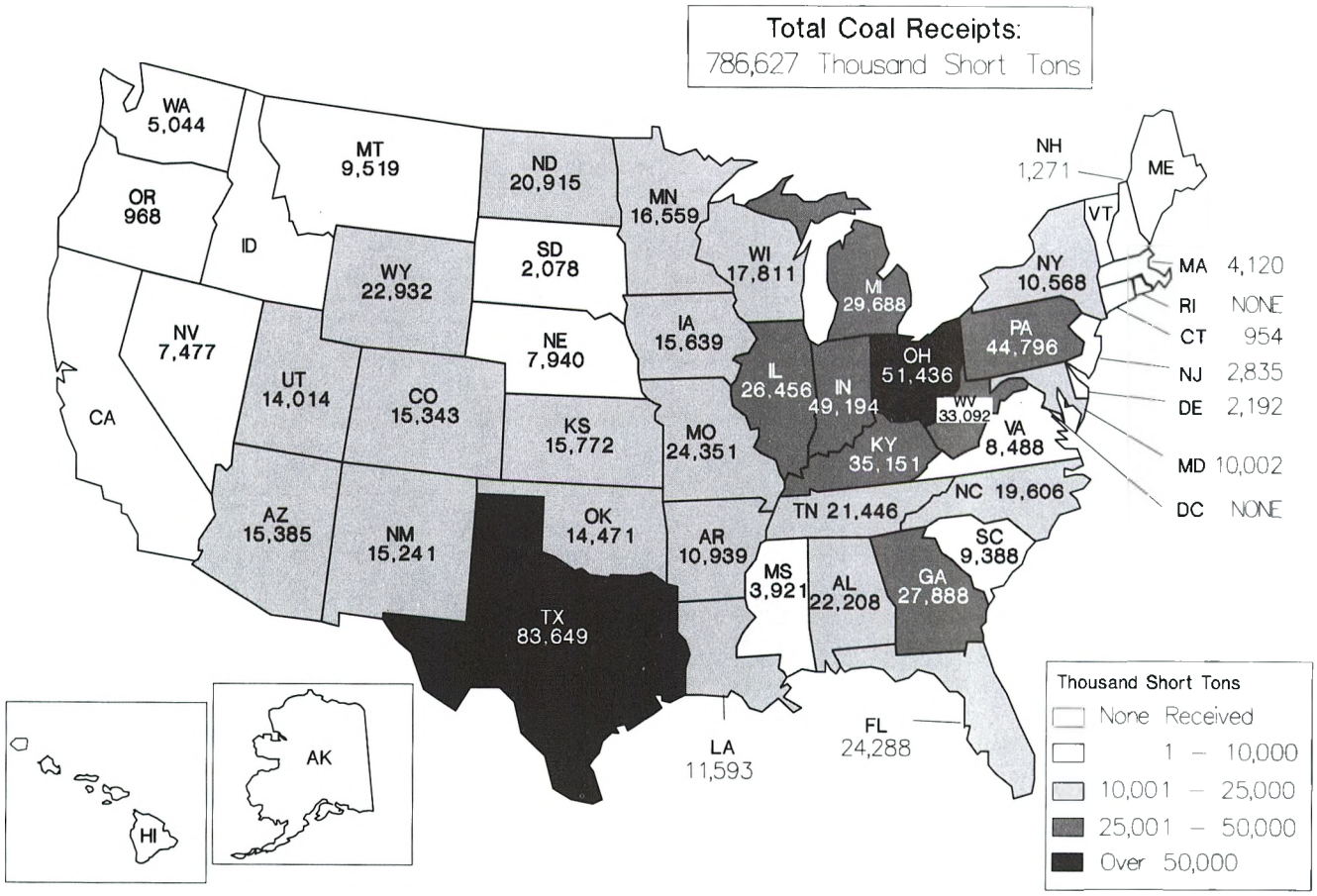
Table 8. Receipts and Average Delivered Cost of Coal by Census Division and State, 1990

Census Division and State	Type of Purchase						Mine Type					
	Contract			Spot			Surface			Underground		
	Quantity (1,000 short tons)	(cents per 10^6 Btu)	($ per short ton)	Quantity (1,000 short tons)	(cents per 10^6 Btu)	($ per short ton)	Quantity (1,000 short tons)	(cents per 10^6 Btu)	($ per short ton)	Quantity (1,000 short tons)	(cents per 10^6 Btu)	($ per short ton)
New England	**4,809**	**180.1**	**47.34**	**1,536**	**181.0**	**47.50**	**731**	**177.0**	**45.51**	**5,614**	**180.8**	**47.62**
Connecticut	852	215.8	57.14	102	189.0	49.77	-	-	-	954	212.9	56.35
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	2,887	170.4	44.48	1,234	180.3	47.22	618	174.9	44.82	3,502	173.1	45.38
New Hampshire	1,070	177.6	47.27	201	181.2	48.08	113	187.9	49.26	1,158	177.2	47.21
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**44,804**	**158.5**	**39.52**	**13,396**	**144.6**	**35.33**	**22,497**	**147.4**	**35.93**	**35,702**	**160.2**	**40.21**
New Jersey	2,493	179.1	48.23	342	187.6	49.40	722	182.3	47.71	2,113	179.4	48.60
New York	7,078	161.9	42.42	3,491	160.2	39.47	3,658	155.9	38.21	6,910	164.0	43.16
Pennsylvania	35,233	156.2	38.32	9,563	137.1	33.31	18,117	144.1	35.00	26,679	157.5	38.78
East North Central	**133,549**	**159.0**	**34.76**	**41,037**	**125.3**	**27.99**	**119,891**	**145.9**	**31.00**	**54,695**	**160.9**	**37.94**
Illinois	22,547	183.3	39.16	3,910	130.9	29.90	14,650	197.1	41.45	11,806	149.4	33.25
Indiana	40,454	140.0	29.54	8,739	119.0	25.24	37,486	127.9	26.60	11,708	161.1	35.76
Michigan	23,072	164.3	36.48	6,615	144.8	32.51	22,660	153.8	32.46	7,027	175.7	45.72
Ohio	34,050	166.8	39.67	17,386	121.6	28.86	30,012	143.9	33.97	21,424	162.1	38.88
Wisconsin	13,425	141.6	27.70	4,386	116.8	21.54	15,082	130.6	23.67	2,729	156.1	40.10
West North Central	**87,080**	**114.5**	**19.66**	**16,173**	**105.4**	**19.69**	**95,432**	**106.7**	**18.07**	**7,820**	**169.8**	**39.12**
Iowa	10,361	122.6	21.93	5,278	90.3	15.88	15,201	110.3	19.47	438	155.4	34.38
Kansas	13,135	127.4	22.24	2,636	110.6	22.19	15,318	122.1	21.66	454	179.3	41.68
Minnesota	15,503	126.0	22.12	1,056	113.8	20.38	16,496	124.9	21.92	62	179.5	43.71
Missouri	18,950	137.4	28.95	5,401	124.8	24.81	17,493	118.7	23.64	6,857	170.0	39.23
Nebraska	6,148	77.4	13.31	1,792	67.8	11.41	7,931	75.2	12.87	9	112.2	25.77
North Dakota	20,915	68.6	9.10	-	-	-	20,915	68.6	9.10	-	-	-
South Dakota	2,067	114.6	13.93	11	113.7	20.13	2,078	114.6	13.97	-	-	-
South Atlantic	**101,618**	**176.6**	**44.01**	**33,325**	**144.7**	**35.31**	**48,303**	**166.3**	**40.71**	**86,640**	**170.3**	**42.51**
Delaware	1,628	183.8	47.96	563	174.7	45.44	271	178.7	46.52	1,921	181.9	47.42
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Florida	19,588	193.2	47.89	4,700	149.7	36.68	8,251	176.9	43.43	16,037	189.0	46.89
Georgia	19,203	188.3	45.56	8,685	155.9	35.68	13,084	168.3	39.34	14,803	187.5	45.26
Maryland	7,142	165.7	42.18	2,860	162.3	41.39	5,631	170.2	42.77	4,370	157.9	40.91
North Carolina	16,443	183.6	46.01	3,163	148.9	37.53	8,246	176.1	44.08	11,360	179.3	45.05
South Carolina	6,870	177.9	44.90	2,518	156.3	39.84	1,648	165.1	42.64	7,740	173.5	43.73
Virginia	5,748	156.8	39.93	2,741	149.7	37.97	2,857	152.8	38.63	5,631	155.4	39.63
West Virginia	24,996	157.6	39.43	8,095	114.5	28.11	8,315	144.7	35.55	24,776	148.0	37.03
East South Central	**62,526**	**150.3**	**35.61**	**20,201**	**121.9**	**28.95**	**40,477**	**142.8**	**33.67**	**42,249**	**143.9**	**34.28**
Alabama	17,029	201.2	49.03	5,180	126.9	29.97	9,962	186.0	45.29	12,246	182.9	44.01
Kentucky	25,654	120.5	27.57	9,497	116.4	27.62	21,372	118.2	27.59	13,779	121.0	27.58
Mississippi	3,006	171.0	43.39	915	146.0	35.25	632	167.3	40.92	3,289	165.0	41.60
Tennessee	16,837	137.3	32.90	4,609	122.8	29.29	8,510	149.7	34.80	12,936	124.5	30.36
West South Central	**116,613**	**149.6**	**22.87**	**4,038**	**128.3**	**24.16**	**119,822**	**148.4**	**22.79**	**829**	**182.7**	**40.93**
Arkansas	10,939	161.1	28.17	-	-	-	10,939	161.1	28.17	-	-	-
Louisiana	11,593	169.5	27.78	-	-	-	11,382	168.5	27.30	211	204.2	53.86
Oklahoma	13,040	142.6	24.92	1,431	123.4	25.49	14,471	140.4	24.98	-	-	-
Texas	81,042	145.9	21.12	2,607	131.3	23.44	83,031	145.0	21.08	619	173.6	36.52
Mountain	**91,951**	**115.6**	**22.62**	**7,961**	**87.3**	**17.24**	**78,733**	**108.5**	**20.31**	**21,179**	**128.0**	**29.21**
Arizona	15,354	143.0	29.97	31	159.6	32.70	14,406	140.6	29.23	979	173.7	41.04
Colorado	12,820	107.9	20.77	2,523	97.8	20.99	11,888	102.3	19.48	3,455	117.6	25.36
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Montana	9,519	67.0	11.47	-	-	-	9,519	67.0	11.47	-	-	-
Nevada	7,469	149.1	33.16	8	149.5	34.66	4,746	129.5	27.97	2,731	180.5	42.18
New Mexico	15,241	131.8	24.03	-	-	-	15,241	131.8	24.03	-	-	-
Utah	12,376	118.4	27.05	1,637	104.4	24.91	-	-	-	14,014	116.7	26.80
Wyoming	19,171	86.7	15.43	3,761	66.9	11.21	22,932	83.6	14.74	-	-	-
Pacific Contiguous	**5,656**	**150.9**	**24.57**	**356**	**127.5**	**21.92**	**6,012**	**149.4**	**24.42**	-	-	-
California	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	968	107.9	18.02	-	-	-	968	107.9	18.02	-	-	-
Washington	4,688	160.0	25.93	356	127.5	21.92	5,044	157.6	25.64	-	-	-
Pacific Noncontiguous	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Total	**648,604**	**149.4**	**30.74**	**138,023**	**128.8**	**29.11**	**531,898**	**137.0**	**26.48**	**254,729**	**159.5**	**38.74**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

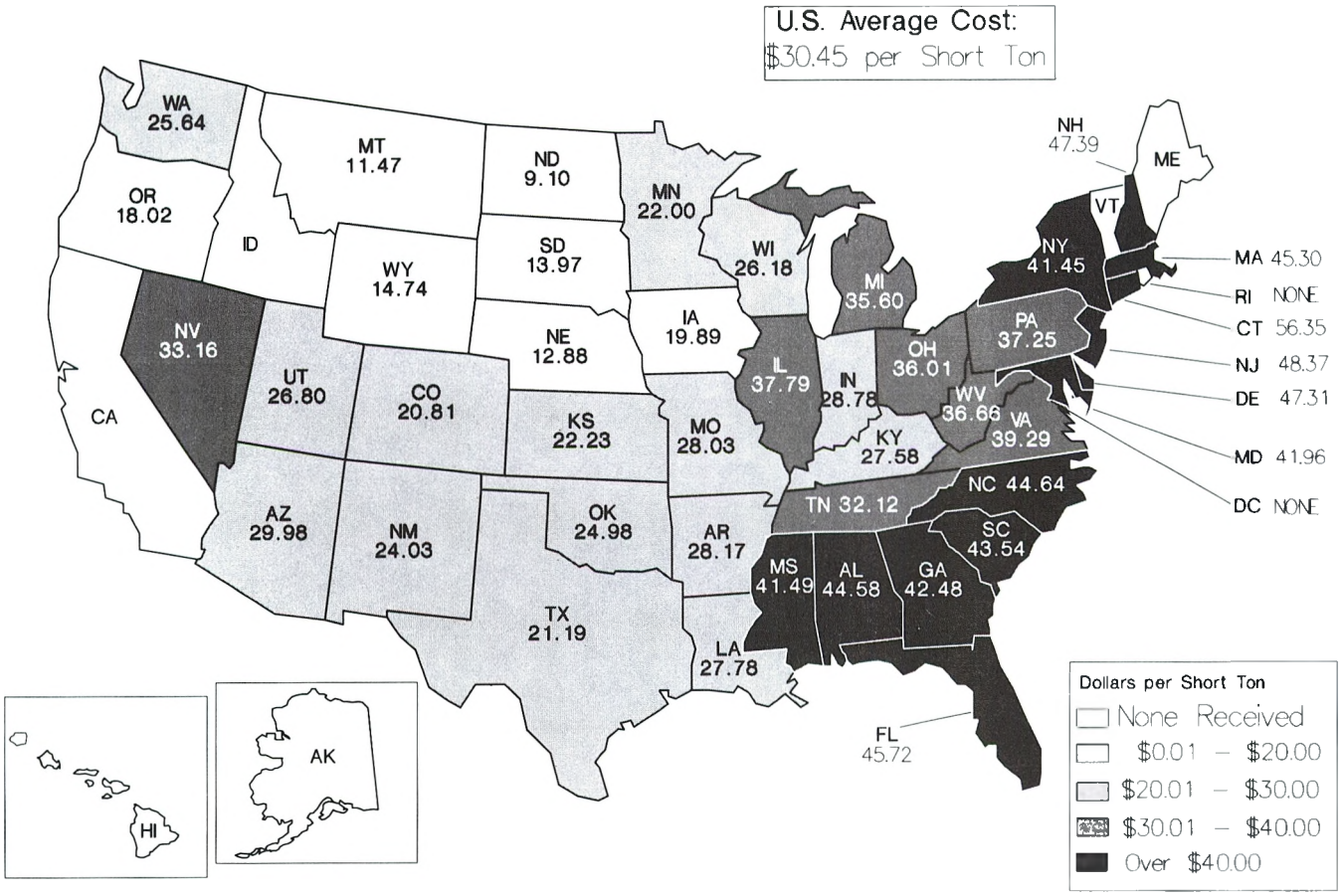
Figure 1. Receipts of Coal, 1990



Notes: •Total may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulator Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Figure 2. Average Delivered Cost of Coal, 1990



Notes: •Total may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulator Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 9. Receipts of Coal by Rank, Census Division, and State, 1990
(Thousand Short Tons)

Census Division and State	Receipts by Rank				
	Anthracite	Bituminous	Subbituminous	Lignite	Total
New England	-	**6,345**	-	-	**6,345**
Connecticut	-	954	-	-	954
Maine	-	-	-	-	-
Massachusetts	-	4,120	-	-	4,120
New Hampshire	-	1,271	-	-	1,271
Rhode Island	-	-	-	-	-
Vermont	-	-	-	-	-
Middle Atlantic	**753**	**57,447**	-	-	**58,200**
New Jersey	-	2,835	-	-	2,835
New York	1	10,567	-	-	10,568
Pennsylvania	752	44,044	-	-	44,796
East North Central	-	**130,885**	**43,700**	-	**174,585**
Illinois	-	20,521	5,935	-	26,456
Indiana	-	37,946	11,248	-	49,194
Michigan	-	15,748	13,939	-	29,688
Ohio	-	51,436	-	-	51,436
Wisconsin	-	5,233	12,578	-	17,811
West North Central	-	**23,267**	**57,002**	**22,983**	**103,252**
Iowa	-	2,925	12,714	-	15,639
Kansas	-	3,447	12,325	-	15,772
Minnesota	-	140	16,418	1	16,559
Missouri	-	16,747	7,604	-	24,351
Nebraska	-	9	7,931	-	7,940
North Dakota	-	-	-	20,915	20,915
South Dakota	-	-	11	2,067	2,078
South Atlantic	-	**132,784**	**2,159**	-	**134,943**
Delaware	-	2,192	-	-	2,192
District of Columbia	-	-	-	-	-
Florida	-	24,288	-	-	24,288
Georgia	-	25,729	2,159	-	27,888
Maryland	-	10,002	-	-	10,002
North Carolina	-	19,606	-	-	19,606
South Carolina	-	9,388	-	-	9,388
Virginia	-	8,488	-	-	8,488
West Virginia	-	33,092	-	-	33,092
East South Central	-	**82,297**	**429**	-	**82,726**
Alabama	-	21,992	216	-	22,208
Kentucky	-	34,938	213	-	35,151
Mississippi	-	3,921	-	-	3,921
Tennessee	-	21,446	-	-	21,446
West South Central	-	**2,920**	**65,459**	**52,272**	**120,651**
Arkansas	-	-	10,939	-	10,939
Louisiana	-	211	8,196	3,186	11,593
Oklahoma	-	880	13,590	-	14,471
Texas	-	1,829	32,734	49,086	83,649
Mountain	-	**41,833**	**57,903**	**176**	**99,912**
Arizona	-	12,340	3,045	-	15,385
Colorado	-	6,059	9,284	-	15,343
Idaho	-	-	-	-	-
Montana	-	-	9,343	176	9,519
Nevada	-	6,902	575	-	7,477
New Mexico	-	-	15,241	-	15,241
Utah	-	14,014	-	-	14,014
Wyoming	-	2,518	20,414	-	22,932
Pacific Contiguous	-	**4**	**6,008**	-	**6,012**
California	-	-	-	-	-
Oregon	-	-	968	-	968
Washington	-	4	5,040	-	5,044
Pacific Noncontiguous	-	-	-	-	-
Alaska	-	-	-	-	-
Hawaii	-	-	-	-	-
Total	**753**	**477,782**	**232,660**	**75,432**	**786,627**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 10. Receipts and Average Delivered Cost of Coal by Sulfur Content, Census Division and State, 1990

Census Division and State	0.5% or Less			More than 0.5% up to 1.0%			More than 1.0% up to 1.5%		
	Quantity (1,000 short tons)	(cents per 10^6 Btu)	($ per short ton)	Quantity (1,000 short tons)	(cents per 10^6 Btu)	($ per short ton)	Quantity (1,000 short tons)	(cents per 10^6 Btu)	($ per short ton)
New England	**195**	**208.4**	**54.74**	**1,469**	**200.1**	**52.90**	**3,803**	**173.0**	**45.19**
Connecticut	114	222.0	58.17	840	211.7	56.10	-	-	-
Maine	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	475	181.8	48.12	3,477	172.4	44.95
New Hampshire	81	189.4	49.93	154	193.0	50.19	326	180.1	47.83
Rhode Island	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-
Middle Atlantic	**412**	**196.4**	**49.25**	**6,390**	**176.8**	**44.24**	**5,684**	**148.9**	**36.67**
New Jersey	33	177.2	50.24	2,211	179.4	48.45	22	183.9	48.69
New York	302	211.2	56.08	1,571	203.1	51.55	677	163.4	39.19
Pennsylvania	78	124.4	22.44	2,608	156.8	36.26	4,985	146.8	36.28
East North Central	**42,521**	**153.9**	**27.83**	**28,758**	**167.8**	**40.57**	**14,722**	**161.1**	**38.58**
Illinois	6,181	279.8	53.88	2,995	176.9	43.99	598	116.5	26.00
Indiana	11,861	137.9	24.13	2,611	191.7	45.88	2,781	152.1	33.34
Michigan	13,431	140.8	26.41	12,017	173.1	43.14	3,487	171.0	44.75
Ohio	2	176.3	40.12	9,055	149.3	36.10	7,476	162.3	38.58
Wisconsin	11,045	109.9	18.93	2,081	175.5	33.68	381	163.6	40.14
West North Central	**49,309**	**104.9**	**18.10**	**30,297**	**99.2**	**14.67**	**5,996**	**139.4**	**24.92**
Iowa	12,964	102.0	17.26	281	123.6	25.71	66	129.0	26.48
Kansas	13,995	121.3	21.01	310	132.6	27.59	-	-	-
Minnesota	7,222	115.9	20.47	9,206	131.8	22.98	38	182.4	44.53
Missouri	7,075	99.1	17.41	1,258	125.2	23.39	2,484	201.4	47.25
Nebraska	7,939	75.2	12.88	*	139.9	31.49	-	-	-
North Dakota	-	-	-	17,471	70.8	9.32	3,215	58.6	8.08
South Dakota	114	113.9	14.61	1,771	115.0	13.97	193	110.9	13.54
South Atlantic	**2,158**	**155.1**	**26.85**	**47,324**	**174.8**	**43.82**	**39,868**	**171.6**	**42.99**
Delaware	-	-	-	1,487	188.8	49.21	531	167.9	43.77
District of Columbia	-	-	-	-	-	-	-	-	-
Florida	-	-	-	8,554	181.2	45.63	5,285	196.2	49.66
Georgia	2,146	155.2	26.79	4,538	208.5	52.19	10,377	168.8	41.50
Maryland	-	-	-	2,950	157.7	40.40	1,129	156.2	39.70
North Carolina	9	143.1	35.51	11,719	180.2	44.70	7,829	174.8	44.61
South Carolina	-	-	-	1,983	169.3	42.94	6,328	172.9	43.79
Virginia	3	176.0	45.26	5,399	155.9	39.43	2,957	152.0	39.00
West Virginia	1	116.5	27.13	10,695	163.0	40.44	5,432	160.7	38.90
East South Central	**2,381**	**206.7**	**48.32**	**21,010**	**172.2**	**42.21**	**8,494**	**139.4**	**34.02**
Alabama	1,800	231.1	54.98	8,187	203.0	49.55	2,022	176.7	42.82
Kentucky	582	125.5	27.71	7,926	134.4	33.22	3,333	127.5	30.43
Mississippi	-	-	-	1,901	178.5	45.67	237	183.1	45.84
Tennessee	-	-	-	2,995	185.5	43.77	2,902	123.8	31.03
West South Central	**74,215**	**165.1**	**27.73**	**21,055**	**122.5**	**16.54**	**19,196**	**109.8**	**14.24**
Arkansas	10,939	161.1	28.17	-	-	-	-	-	-
Louisiana	8,143	176.2	29.77	3,450	152.0	23.09	-	-	-
Oklahoma	13,631	140.6	24.39	216	152.4	36.69	339	146.0	36.63
Texas	41,502	172.4	28.31	17,389	115.0	14.98	18,857	108.5	13.83
Mountain	**51,449**	**111.8**	**22.46**	**47,790**	**114.7**	**21.82**	**674**	**141.4**	**27.91**
Arizona	13,184	135.1	28.80	2,201	196.8	37.06	-	-	-
Colorado	14,857	106.2	20.74	486	103.5	22.77	-	-	-
Idaho	-	-	-	-	-	-	-	-	-
Montana	99	111.7	14.70	9,421	66.6	11.44	-	-	-
Nevada	2,339	168.5	36.26	5,138	140.6	31.75	-	-	-
New Mexico	-	-	-	15,241	131.8	24.03	-	-	-
Utah	10,482	116.5	26.56	3,391	113.2	26.63	140	225.5	48.53
Wyoming	10,487	60.0	9.85	11,911	100.4	18.69	534	116.8	22.51
Pacific Contiguous	**1,316**	**113.2**	**19.02**	**4,696**	**160.0**	**25.93**	-	-	-
California	-	-	-	-	-	-	-	-	-
Oregon	968	107.9	18.02	-	-	-	-	-	-
Washington	348	127.4	21.60	4,696	160.0	25.93	-	-	-
Pacific Noncontiguous	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-
Total	**223,958**	**136.9**	**24.64**	**208,789**	**149.4**	**30.87**	**98,438**	**156.5**	**34.47**

* = Number less than 0.5.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 10. Receipts and Average Delivered Cost of Coal by Sulfur Content, by Census Division and State, 1990 (Continued)

Census Division 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 (1,000 short tons)	(cents per 10^6 Btu)	($ per short ton)	Quantity (1,000 short tons)	(cents per 10^6 Btu)	($ per short ton)	Quantity (1,000 short tons)	(cents per 10^6 Btu)	($ per short ton)	(cents per 10^6 Btu)	($ per short ton)
New England	**224**	**173.0**	**45.38**	**653**	**172.2**	**46.16**	**-**	**-**	**-**	**180.3**	**47.38**
Connecticut	-	-	-	-	-	-	-	-	-	212.9	56.35
Maine	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	169	170.5	44.58	-	-	-	-	-	-	173.4	45.30
New Hampshire	56	180.3	47.82	653	172.2	46.16	-	-	-	178.1	47.39
Rhode Island	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**18,659**	**153.3**	**37.82**	**20,771**	**152.8**	**38.41**	**6,283**	**150.8**	**36.45**	**155.4**	**38.56**
New Jersey	66	191.0	51.20	482	181.6	47.44	21	188.8	49.85	180.1	48.37
New York	3,123	156.4	40.06	4,868	148.1	38.52	27	133.1	34.95	161.3	41.45
Pennsylvania	15,470	152.5	37.31	15,421	153.4	38.09	6,235	150.8	36.41	152.2	37.25
East North Central	**10,658**	**142.0**	**33.97**	**33,877**	**138.3**	**31.53**	**44,048**	**145.3**	**32.75**	**150.9**	**33.17**
Illinois	1,867	117.1	26.93	6,325	138.9	30.53	8,490	151.6	32.51	175.1	37.79
Indiana	2,594	142.2	31.29	14,177	125.5	27.78	15,170	131.0	29.13	136.2	28.78
Michigan	10	155.1	40.56	553	140.2	34.20	190	184.8	43.89	159.9	35.60
Ohio	3,823	144.2	35.61	10,932	146.5	35.29	20,149	152.8	35.49	151.5	36.01
Wisconsin	2,364	155.9	39.77	1,890	179.7	40.48	49	127.3	27.47	135.8	26.18
West North Central	**901**	**121.7**	**24.85**	**7,188**	**148.1**	**33.31**	**9,561**	**134.0**	**29.50**	**113.0**	**19.66**
Iowa	314	139.3	31.15	1,518	146.2	32.12	496	177.7	39.78	111.8	19.89
Kansas	-	-	-	1,015	152.9	34.88	452	124.2	28.17	124.2	22.23
Minnesota	61	158.8	35.76	31	161.9	36.42	-	-	-	125.2	22.00
Missouri	297	128.5	29.86	4,624	147.6	33.33	8,613	132.0	28.98	134.8	28.03
Nebraska	-	-	-	-	-	-	-	-	-	75.2	12.88
North Dakota	229	50.0	6.77	-	-	-	-	-	-	68.6	9.10
South Dakota	-	-	-	-	-	-	-	-	-	114.6	13.97
South Atlantic	**14,409**	**161.0**	**40.38**	**18,489**	**172.2**	**42.11**	**12,694**	**143.0**	**34.87**	**168.9**	**41.86**
Delaware	174	160.1	41.86	-	-	-	-	-	-	161.5	47.31
District of Columbia	-	-	-	-	-	-	-	-	-	-	-
Florida	133	195.7	51.58	8,736	188.0	45.34	1,580	146.6	34.58	184.9	45.72
Georgia	3,257	171.4	43.15	4,370	184.7	43.84	3,200	177.5	39.88	178.6	42.48
Maryland	4,813	170.5	43.15	1,109	167.3	43.18	-	-	-	164.7	41.96
North Carolina	49	151.5	39.83	-	-	-	-	-	-	178.0	44.64
South Carolina	941	173.5	43.38	136	160.4	42.00	-	-	-	172.0	43.54
Virginia	106	152.5	39.55	24	165.1	43.90	-	-	-	154.5	39.29
West Virginia	4,937	141.6	34.95	4,113	129.8	33.12	7,914	130.0	32.91	147.2	36.66
East South Central	**9,581**	**135.9**	**32.75**	**25,959**	**134.5**	**31.74**	**15,301**	**112.5**	**25.01**	**143.3**	**33.98**
Alabama	2,596	165.7	39.81	6,357	169.3	41.03	1,246	119.5	27.86	184.3	44.58
Kentucky	1,041	119.1	27.80	8,236	112.2	25.80	14,032	111.8	24.75	119.3	27.58
Mississippi	9	135.8	33.59	1,750	148.8	36.57	23	126.0	29.27	165.4	41.49
Tennessee	5,934	125.8	30.53	9,615	126.9	29.81	-	-	-	134.2	32.12
West South Central	**5,490**	**110.7**	**13.77**	**518**	**82.8**	**9.26**	**177**	**107.0**	**27.49**	**148.8**	**22.91**
Arkansas	-	-	-	-	-	-	-	-	-	161.1	28.17
Louisiana	-	-	-	-	-	-	-	-	-	169.5	27.78
Oklahoma	107	140.3	34.99	-	-	-	177	107.0	27.49	140.4	24.98
Texas	5,383	109.5	13.35	518	82.8	9.26	-	-	-	145.3	21.19
Mountain	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**113.3**	**22.19**
Arizona	-	-	-	-	-	-	-	-	-	143.0	29.98
Colorado	-	-	-	-	-	-	-	-	-	106.1	20.81
Idaho	-	-	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-	67.0	11.47
Nevada	-	-	-	-	-	-	-	-	-	149.1	33.16
New Mexico	-	-	-	-	-	-	-	-	-	131.8	24.03
Utah	-	-	-	-	-	-	-	-	-	116.7	26.80
Wyoming	-	-	-	-	-	-	-	-	-	83.6	14.74
Pacific Contiguous	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**149.4**	**24.42**
California	-	-	-	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	-	107.9	18.02
Washington	-	-	-	-	-	-	-	-	-	157.6	25.84
Pacific Noncontiguous	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Alaska	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-
Total	**59,923**	**148.0**	**34.57**	**107,454**	**147.1**	**34.83**	**88,065**	**138.6**	**31.61**	**145.5**	**30.45**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 11. Monthly Statistics of Coal by Census Division, 1990

Census Division	January	February	March	April	May	June
New England						
Receipts Purchased, 1,000 Short Tons	551	641	657	414	600	518
Total Heating Val, Billion Btu	14,397.0	16,778.9	17,119.0	10,865.4	15,757.4	13,607.3
Sulfur Content, % by Weight	1.3	1.2	1.3	1.3	1.2	1.2
Avg. Cost, Cents per Million Btu	176.8	179.4	177.1	179.4	182.8	179.2
Total Est. Coal Bill, $1,000	25,447.3	30,097.5	30,318.5	19,491.9	28,802.4	24,383.5
Middle Atlantic						
Receipts Purchased, 1,000 Short Tons	4,953	5,004	5,617	5,108	5,058	4,618
Total Heating Val, Billion Btu	122,698.8	124,539.4	140,200.0	126,942.8	124,894.2	114,123.6
Sulfur Content, % by Weight	2.0	2.0	2.0	2.1	2.0	2.0
Avg. Cost, Cents per Million Btu	155.5	155.1	154.9	154.4	153.3	155.8
Total Est. Coal Bill, $1,000	190,759.5	193,190.1	217,146.9	195,973.3	191,405.7	177,762.8
East North Central						
Receipts Purchased, 1,000 Short Tons	13,680	12,245	14,617	14,906	14,805	14,392
Total Heating Val, Billion Btu	303,314.3	272,166.2	324,219.9	326,521.7	323,080.4	314,888.0
Sulfur Content, % by Weight	2.0	2.0	1.9	1.8	1.8	1.7
Avg. Cost, Cents per Million Btu	153.3	153.9	152.6	152.0	153.5	152.9
Total Est. Coal Bill, $1,000	464,958.4	418,832.4	494,664.1	496,384.5	496,074.5	481,331.6
West North Central						
Receipts Purchased, 1,000 Short Tons	9,654	8,146	8,817	8,865	8,353	7,866
Total Heating Val, Billion Btu	168,557.4	141,163.0	152,475.3	155,603.6	145,601.9	137,887.4
Sulfur Content, % by Weight	1.0	.9	.9	1.0	1.0	1.0
Avg. Cost, Cents per Million Btu	111.9	114.6	113.6	116.0	117.0	115.8
Total Est. Coal Bill, $1,000	188,598.6	161,711.5	173,138.5	180,573.0	170,374.3	159,720.2
South Atlantic						
Receipts Purchased, 1,000 Short Tons	11,676	11,592	11,777	10,665	10,972	10,779
Total Heating Val, Billion Btu	290,975.1	287,317.6	292,432.8	265,286.7	272,040.2	268,171.5
Sulfur Content, % by Weight	1.5	1.5	1.6	1.6	1.6	1.6
Avg. Cost, Cents per Million Btu	168.8	169.3	168.1	170.2	169.8	169.1
Total Est. Coal Bill, $1,000	491,295.7	486,413.2	491,551.7	451,405.9	462,047.3	453,506.7
East South Central						
Receipts Purchased, 1,000 Short Tons	7,183	6,623	7,258	6,959	7,367	7,105
Total Heating Val, Billion Btu	169,176.3	155,719.3	171,012.9	164,496.9	174,485.8	168,110.8
Sulfur Content, % by Weight	2.2	2.1	2.1	2.1	2.1	2.1
Avg. Cost, Cents per Million Btu	142.3	142.5	142.6	143.2	143.7	144.9
Total Est. Coal Bill, $1,000	240,802.2	221,910.6	243,813.5	235,539.0	250,684.9	243,662.7
West South Central						
Receipts Purchased, 1,000 Short Tons	10,395	9,129	9,631	8,907	9,660	10,365
Total Heating Val, Billion Btu	158,037.1	140,967.2	149,280.2	138,490.4	149,407.1	158,494.8
Sulfur Content, % by Weight	.7	.7	.6	.6	.6	.7
Avg. Cost, Cents per Million Btu	143.5	148.6	150.1	152.8	154.2	146.3
Total Est. Coal Bill, $1,000	226,771.1	209,501.9	224,112.0	211,582.0	230,428.0	231,868.3
Mountain						
Receipts Purchased, 1,000 Short Tons	9,061	8,434	8,682	7,640	7,719	7,570
Total Heating Val, Billion Btu	177,916.9	165,605.1	171,338.2	149,049.0	152,362.7	147,057.0
Sulfur Content, % by Weight	.6	.5	.5	.6	.6	.5
Avg. Cost, Cents per Million Btu	113.7	114.2	111.5	119.5	115.3	112.1
Total Est. Coal Bill, $1,000	202,223.9	189,167.0	191,090.2	178,074.8	175,736.8	164,892.0
Pacific Contiguous						
Receipts Purchased, 1,000 Short Tons	483	483	481	424	424	435
Total Heating Val, Billion Btu	7,950.0	7,949.0	7,836.0	6,876.5	6,885.1	7,064.7
Sulfur Content, % by Weight	.6	.6	.6	.8	.8	.8
Avg. Cost, Cents per Million Btu	154.8	161.4	157.4	163.3	161.9	162.5
Total Est. Coal Bill, $1,000	12,307.5	12,829.2	12,331.2	11,230.8	11,144.9	11,480.6
Pacific Noncontiguous						
Receipts Purchased, 1,000 Short Tons	-	-	-	-	-	-
Total Heating Val, Billion Btu	-	-	-	-	-	-
Sulfur Content, % by Weight	-	-	-	-	-	-
Avg. Cost, Cents per Million Btu	-	-	-	-	-	-
Total Est. Coal Bill, $1,000	-	-	-	-	-	-
Total						
Receipts Purchased, 1,000 Short Tons	67,636	62,296	67,536	63,888	64,958	63,649
Total Heating Val, Billion Btu	1,413,022.9	1,312,205.8	1,425,914.3	1,344,133.0	1,364,514.8	1,329,405.0
Sulfur Content, % by Weight	1.4	1.4	1.4	1.4	1.4	1.3
Avg. Cost, Cents per Million Btu	144.6	146.6	145.7	147.3	147.8	146.6
Total Est. Coal Bill, $1,000	2,043,164.1	1,923,653.4	2,078,166.6	1,980,255.2	2,016,698.8	1,948,608.3

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 11. Monthly Statistics of Coal by Census Division, 1990 (Continued)

Census Division	July	August	September	October	November	December	12-Month Total
New England							
Receipts Purchased, 1,000 Short Tons	427	542	410	512	488	585	6,345
Total Heating Val, Billion Btu	11,257.9	14,227.9	10,855.5	13,430.5	12,909.8	15,492.1	166,698.8
Sulfur Content, % by Weight	1.2	1.4	1.4	1.4	1.1	1.0	1.2
Avg. Cost, Cents per Million Btu	183.2	182.4	178.3	180.2	185.1	181.1	180.3
Total Est. Coal Bill, $1,000	20,628.4	25,951.4	19,359.3	24,202.0	23,891.0	28,050.3	300,623.5
Middle Atlantic							
Receipts Purchased, 1,000 Short Tons	4,195	5,104	4,981	4,982	4,267	4,312	58,200
Total Heating Val, Billion Btu	103,425.5	127,006.7	123,221.6	123,697.3	106,034.0	107,570.2	1,444,354.0
Sulfur Content, % by Weight	2.2	2.1	2.1	2.1	2.1	2.0	2.1
Avg. Cost, Cents per Million Btu	155.4	153.2	156.2	156.5	157.4	157.6	155.4
Total Est. Coal Bill, $1,000	160,678.8	194,596.6	192,438.1	193,566.0	166,862.4	169,552.5	2,243,932.9
East North Central							
Receipts Purchased, 1,000 Short Tons	14,324	16,278	15,072	15,812	14,997	13,459	174,585
Total Heating Val, Billion Btu	313,041.2	355,660.6	331,194.6	347,842.0	328,967.2	295,871.4	3,836,767.4
Sulfur Content, % by Weight	1.7	1.7	1.8	1.8	1.8	1.9	1.8
Avg. Cost, Cents per Million Btu	150.5	149.2	147.9	150.0	148.2	147.9	150.9
Total Est. Coal Bill, $1,000	471,078.4	530,638.3	490,002.0	521,783.6	487,546.1	437,620.1	5,790,914.0
West North Central							
Receipts Purchased, 1,000 Short Tons	8,475	9,033	7,888	8,796	9,036	8,323	103,252
Total Heating Val, Billion Btu	147,963.3	158,647.0	137,351.1	153,661.5	157,036.8	140,820.0	1,796,768.1
Sulfur Content, % by Weight	1.0	1.0	1.0	.9	1.0	.9	1.0
Avg. Cost, Cents per Million Btu	113.8	112.9	112.9	112.9	108.8	106.0	113.0
Total Est. Coal Bill, $1,000	168,336.9	179,173.3	155,004.3	173,547.5	170,885.9	149,239.1	2,030,303.1
South Atlantic							
Receipts Purchased, 1,000 Short Tons	10,274	12,217	11,207	12,022	11,047	10,715	134,943
Total Heating Val, Billion Btu	254,139.4	302,350.6	278,055.5	297,474.5	272,737.0	264,238.5	3,345,219.6
Sulfur Content, % by Weight	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Avg. Cost, Cents per Million Btu	169.2	167.4	167.3	169.7	169.5	168.2	168.9
Total Est. Coal Bill, $1,000	429,945.0	506,162.4	465,262.8	504,685.8	462,415.3	444,353.4	5,649,045.0
East South Central							
Receipts Purchased, 1,000 Short Tons	6,334	6,844	6,794	7,269	6,868	6,121	82,726
Total Heating Val, Billion Btu	150,766.7	162,538.5	161,328.0	173,418.1	164,237.4	146,082.1	1,961,372.9
Sulfur Content, % by Weight	2.1	2.1	2.1	2.1	2.1	2.0	2.1
Avg. Cost, Cents per Million Btu	147.9	144.9	143.7	143.3	141.8	139.1	143.3
Total Est. Coal Bill, $1,000	222,916.7	235,555.1	231,824.7	248,430.4	232,920.1	203,258.7	2,811,318.6
West South Central							
Receipts Purchased, 1,000 Short Tons	10,912	11,138	10,305	10,131	10,025	10,053	120,651
Total Heating Val, Billion Btu	167,627.9	171,356.7	158,756.4	155,344.0	156,614.9	153,936.7	1,858,313.4
Sulfur Content, % by Weight	.7	.7	.6	.7	.6	.6	.6
Avg. Cost, Cents per Million Btu	144.0	147.0	150.1	153.2	151.6	145.0	148.8
Total Est. Coal Bill, $1,000	241,420.5	251,966.5	238,219.7	238,005.9	237,351.2	223,174.1	2,764,401.3
Mountain							
Receipts Purchased, 1,000 Short Tons	7,951	8,893	8,508	9,052	8,103	8,298	99,912
Total Heating Val, Billion Btu	154,981.7	175,418.1	167,682.2	176,748.5	157,216.8	161,337.3	1,956,713.5
Sulfur Content, % by Weight	.5	.5	.6	.6	.5	.5	.5
Avg. Cost, Cents per Million Btu	109.0	111.8	112.9	115.3	116.1	108.8	113.3
Total Est. Coal Bill, $1,000	168,990.3	196,086.9	189,231.4	203,815.6	182,557.2	175,515.4	2,217,381.3
Pacific Contiguous							
Receipts Purchased, 1,000 Short Tons	534	523	550	594	562	519	6,012
Total Heating Val, Billion Btu	8,717.5	8,522.7	8,978.4	9,719.8	9,200.5	8,523.1	98,223.4
Sulfur Content, % by Weight	.6	.7	.6	.6	.5	.5	.6
Avg. Cost, Cents per Million Btu	151.8	143.0	138.9	135.6	136.5	138.8	149.4
Total Est. Coal Bill, $1,000	13,230.4	12,184.9	12,474.5	13,181.0	12,557.4	11,832.2	146,784.7
Pacific Noncontiguous							
Receipts Purchased, 1,000 Short Tons	-	-	-	-	-	-	-
Total Heating Val, Billion Btu	-	-	-	-	-	-	-
Sulfur Content, % by Weight	-	-	-	-	-	-	-
Avg. Cost, Cents per Million Btu	-	-	-	-	-	-	-
Total Est. Coal Bill, $1,000	-	-	-	-	-	-	-
Total							
Receipts Purchased, 1,000 Short Tons	63,427	70,571	65,715	69,170	65,393	62,386	786,627
Total Heating Val, Billion Btu	1,311,921.0	1,475,728.8	1,377,423.4	1,451,336.2	1,364,954.4	1,293,871.4	16,464,431.1
Sulfur Content, % by Weight	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Avg. Cost, Cents per Million Btu	144.6	144.5	144.7	146.2	144.8	142.4	145.5
Total Est. Coal Bill, $1,000	1,897,225.5	2,132,315.5	1,993,816.8	2,121,217.8	1,976,986.5	1,842,595.8	23,954,704.4

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 12. Receipts of Petroleum by Census Division and State, 1986-1990
(Thousand Barrels)

Census Division and State	1990	1989	1988	1987	1986
New England	**47,717**	**58,939**	**60,107**	**50,712**	**61,565**
Connecticut	14,688	18,964	18,510	15,100	18,062
Maine	3,790	4,938	5,120	4,061	4,595
Massachusetts	24,575	29,220	29,931	27,335	32,802
New Hampshire	4,292	5,102	5,130	3,385	4,663
Rhode Island	372	715	1,416	832	1,442
Vermont	-	-	-	-	-
Middle Atlantic	**72,878**	**89,777**	**87,220**	**72,696**	**80,386**
New Jersey	5,367	12,276	13,664	8,574	12,300
New York	60,282	65,575	63,074	52,077	53,181
Pennsylvania	7,229	11,926	10,483	12,046	14,905
East North Central	**4,743**	**6,009**	**5,455**	**6,105**	**5,495**
Illinois	2,124	2,339	1,803	3,951	2,628
Indiana	360	405	324	277	335
Michigan	1,610	2,339	2,389	1,361	1,951
Ohio	581	821	823	432	418
Wisconsin	67	105	116	84	163
West North Central	**404**	**443**	**724**	**602**	**582**
Iowa	86	59	77	69	60
Kansas	39	72	133	73	109
Minnesota	26	21	16	30	18
Missouri	162	133	350	349	305
Nebraska	28	71	101	25	21
North Dakota	55	77	38	47	46
South Dakota	7	10	9	8	22
South Atlantic	**56,302**	**63,386**	**53,894**	**48,333**	**58,180**
Delaware	2,011	3,776	4,016	2,760	3,603
District of Columbia	771	1,297	959	542	431
Florida	42,575	40,432	39,073	33,526	44,415
Georgia	304	230	374	400	539
Maryland	7,144	10,649	5,635	4,742	4,801
North Carolina	246	203	229	265	189
South Carolina	114	83	112	116	101
Virginia	2,781	6,233	3,183	5,536	3,689
West Virginia	355	483	312	445	411
East South Central	**1,643**	**1,748**	**1,569**	**747**	**2,517**
Alabama	125	129	140	191	219
Kentucky	190	206	224	239	241
Mississippi	1,215	1,307	1,087	186	1,920
Tennessee	113	106	118	132	137
West South Central	**1,804**	**3,381**	**1,472**	**748**	**1,879**
Arkansas	145	235	240	144	132
Louisiana	386	578	510	91	419
Oklahoma	115	37	173	35	80
Texas	1,158	2,532	549	478	1,247
Mountain	**816**	**1,264**	**1,500**	**1,051**	**961**
Arizona	280	290	204	296	269
Colorado	37	34	13	31	39
Idaho	-	-	-	-	-
Montana	40	41	37	24	43
Nevada	282	664	986	467	319
New Mexico	55	65	97	70	86
Utah	23	40	34	47	73
Wyoming	99	131	128	117	131
Pacific Contiguous	**12,484**	**11,170**	**14,983**	**3,209**	**7,542**
California	12,445	11,104	14,966	3,193	7,520
Oregon	13	12	-	-	*
Washington	25	53	17	16	22
Pacific Noncontiguous	**10,560**	**10,306**	**10,000**	**10,374**	**9,415**
Alaska	-	-	-	-	-
Hawaii	10,560	10,306	10,000	10,374	9,415
Total	**209,350**	**246,422**	**236,924**	**194,578**	**228,522**

* = Number less than 0.5

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 13. Average Delivered Cost of Petroleum by Census Division and State, 1986-1990

Census Division and State	1990	1989	1988	1987	1986	1990	1989	1988	1987	1986
	(cents per million Btu)					(dollars per barrel)				
New England	**285.5**	**269.2**	**227.5**	**278.9**	**230.6**	**18.09**	**17.04**	**14.37**	**17.72**	**14.59**
Connecticut	301.5	285.6	239.7	293.6	250.8	19.09	18.01	15.11	18.50	15.75
Maine	278.5	278.2	235.3	293.7	239.3	17.55	17.48	14.74	18.58	15.06
Massachusetts	266.4	264.8	225.9	271.5	223.8	18.08	16.72	14.25	17.28	14.16
New Hampshire	226.9	226.9	186.9	258.7	191.7	14.71	14.85	12.13	16.93	12.46
Rhode Island	358.9	270.3	224.6	267.8	237.1	22.98	17.00	14.24	17.00	15.04
Vermont	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**359.2**	**296.1**	**248.9**	**306.7**	**246.2**	**22.61**	**18.61**	**15.63**	**19.25**	**15.39**
New Jersey	359.6	303.5	251.2	312.2	238.0	22.40	18.93	15.63	19.44	14.73
New York	360.3	295.3	248.9	306.1	247.0	22.71	18.58	15.66	19.23	15.48
Pennsylvania	349.5	293.1	245.8	305.5	250.0	21.99	18.49	15.48	19.17	15.63
East North Central	**387.2**	**342.6**	**301.8**	**361.2**	**402.3**	**23.77**	**20.99**	**18.47**	**22.31**	**24.70**
Illinois	394.7	353.0	312.0	361.6	504.2	24.67	22.03	19.42	22.75	31.60
Indiana	512.2	421.8	363.4	412.2	389.0	29.52	24.27	20.93	23.77	22.48
Michigan	320.2	315.0	279.9	337.5	277.4	19.64	19.23	17.14	20.42	16.96
Ohio	458.8	345.8	311.7	395.7	353.0	27.54	21.06	18.90	23.18	20.73
Wisconsin	526.1	410.0	364.5	396.8	359.6	30.76	23.84	21.07	23.01	20.86
West North Central	**498.4**	**369.0**	**276.9**	**322.8**	**299.7**	**29.19**	**22.04**	**16.90**	**19.63**	**18.09**
Iowa	518.1	445.1	372.1	405.7	362.5	30.01	25.87	21.51	23.63	21.11
Kansas	540.4	432.8	318.6	387.0	335.7	31.36	25.24	19.01	22.46	19.54
Minnesota	533.3	441.6	369.2	446.6	391.2	30.83	25.50	21.29	25.84	22.56
Missouri	434.6	323.5	237.0	279.6	259.9	25.76	19.82	14.77	17.45	16.12
Nebraska	703.4	248.9	241.7	250.2	259.1	40.78	15.47	15.14	15.60	16.10
North Dakota	499.1	421.9	362.1	388.1	364.5	29.20	24.53	21.07	22.69	21.21
South Dakota	565.3	450.2	401.7	434.3	368.0	33.24	26.47	23.62	25.54	21.64
South Atlantic	**311.4**	**277.4**	**227.7**	**298.1**	**221.7**	**19.66**	**17.47**	**14.40**	**19.22**	**13.98**
Delaware	278.2	277.4	232.1	278.7	233.2	17.68	17.54	14.71	17.60	14.64
District of Columbia	363.3	345.6	278.9	354.8	273.4	21.86	20.78	16.82	21.28	16.46
Florida	301.9	271.1	221.3	292.2	216.9	19.15	17.19	14.07	19.16	13.74
Georgia	485.5	426.7	283.8	344.9	231.8	28.51	24.95	17.02	20.68	14.12
Maryland	315.7	276.2	236.1	311.4	237.8	19.84	17.39	14.90	19.43	14.83
North Carolina	512.1	398.9	348.5	390.8	348.3	29.73	23.17	20.25	22.67	20.24
South Carolina	622.1	426.3	373.6	400.0	363.7	36.07	24.71	21.72	23.29	21.14
Virginia	383.5	284.4	236.3	309.3	215.6	23.57	17.48	14.61	19.13	13.37
West Virginia	572.4	450.5	395.8	436.1	370.7	33.49	26.33	23.23	25.53	21.70
East South Central	**322.0**	**308.0**	**340.3**	**359.5**	**242.8**	**20.00**	**19.06**	**20.93**	**21.26**	**15.01**
Alabama	556.9	414.3	366.8	403.1	349.1	32.09	23.87	21.01	23.38	20.27
Kentucky	575.0	475.2	384.6	407.3	350.3	33.56	27.71	22.46	23.78	20.42
Mississippi	243.3	267.6	327.7	237.6	213.0	15.45	16.91	20.67	14.72	13.40
Tennessee	560.8	394.7	350.9	392.8	336.8	32.70	22.92	20.39	22.82	19.57
West South Central	**468.4**	**375.0**	**345.5**	**366.3**	**256.6**	**28.16**	**22.54**	**21.14**	**21.56**	**15.45**
Arkansas	470.4	370.6	435.4	386.0	406.7	27.44	22.44	26.44	22.20	23.65
Louisiana	371.5	379.4	347.6	340.5	161.9	22.62	23.86	21.48	20.45	10.16
Oklahoma	320.3	415.0	268.2	391.2	289.6	20.98	23.92	16.88	22.56	16.75
Texas	517.3	373.8	329.1	363.7	272.5	30.82	22.22	19.83	21.50	16.28
Mountain	**424.9**	**342.6**	**289.4**	**334.5**	**308.6**	**25.60**	**20.79**	**17.68**	**20.10**	**18.50**
Arizona	446.0	403.1	407.0	426.2	362.3	26.76	23.92	24.01	24.82	21.41
Colorado	534.5	409.9	384.8	386.3	336.8	30.76	23.60	22.14	22.18	19.43
Idaho	-	-	-	-	-	-	-	-	-	-
Montana	543.2	430.9	403.3	410.7	428.3	32.17	25.52	23.88	24.32	25.37
Nevada	314.3	286.5	244.8	245.0	210.9	19.57	17.85	15.25	15.25	13.10
New Mexico	524.5	378.3	308.0	357.0	286.1	30.42	22.17	18.10	20.89	16.90
Utah	541.5	445.2	398.4	411.9	361.9	31.84	26.18	23.43	24.26	21.33
Wyoming	526.8	415.4	379.7	409.5	386.9	30.72	24.27	22.22	23.95	22.62
Pacific Contiguous	**435.8**	**307.9**	**266.0**	**282.6**	**316.5**	**26.73**	**18.93**	**16.35**	**17.70**	**19.52**
California	435.8	307.6	265.8	282.0	316.6	26.73	18.91	16.34	17.66	19.53
Oregon	347.3	452.8	-	-	324.2	20.28	26.59	-	-	18.90
Washington	511.0	336.7	403.2	409.8	276.1	30.25	20.66	23.87	24.27	16.35
Pacific Noncontiguous	**415.2**	**329.1**	**286.7**	**344.6**	**286.7**	**25.97**	**20.55**	**17.96**	**21.60**	**17.94**
Alaska	-	-	-	-	-	-	-	-	-	-
Hawaii	415.2	329.1	286.7	344.6	286.7	25.97	20.55	17.96	21.60	17.94
Total	**338.4**	**289.3**	**243.9**	**301.1**	**243.7**	**21.28**	**18.17**	**15.33**	**19.06**	**15.30**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 14. Receipts and Average Delivered Cost of Petroleum by Census Division and State, 1990

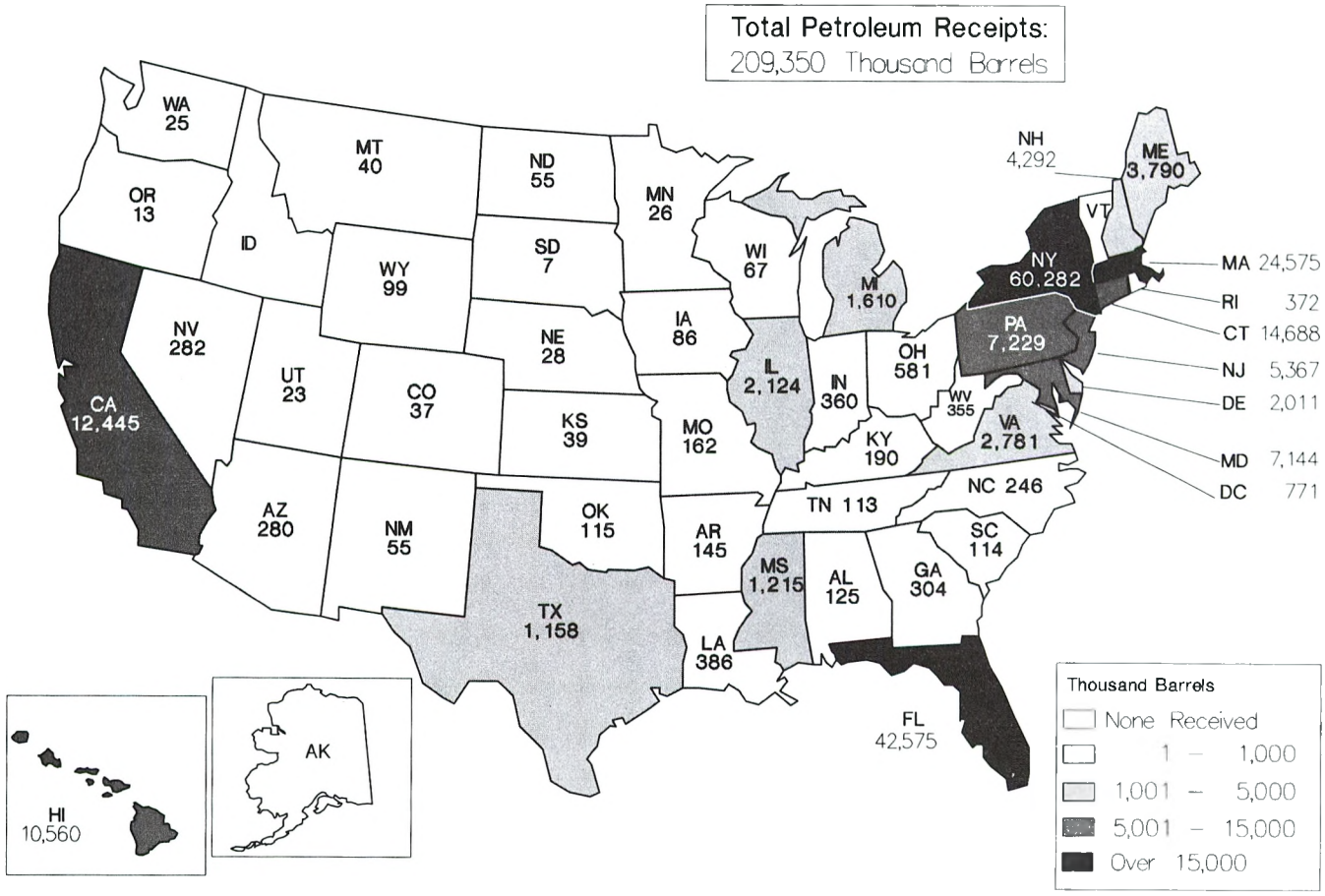
Census Division and State	No. 6 Fuel Oil by Type of Purchase						Average Delivered Cost					
	Contract			Spot			No. 2 Fuel Oil		No. 4, No. 5 Fuel Oil		No. 6 Fuel Oil	
	Quantity (1,000 bbls)	(cents per 10^6 Btu)	($ per bbl)	Quantity (1,000 bbls)	(cents per 10^6 Btu)	($ per bbl)	(cents per 10^6 Btu)	($ per bbl)	(cents per 10^6 Btu)	($ per bbl)	(cents per 10^6 Btu)	($ per bbl)
New England	**39,495**	**282.3**	**17.90**	**8,078**	**297.1**	**18.76**	**552.7**	**32.17**	**-**	**-**	**284.8**	**18.04**
Connecticut	13,336	302.7	19.18	1,314	282.2	17.84	566.5	33.04	-	-	300.8	19.06
Maine	3,781	277.9	17.51	-	-	-	539.9	31.68	-	-	277.9	17.51
Massachusetts	18,053	281.6	17.79	6,453	297.4	18.76	540.6	31.46	-	-	285.8	18.04
New Hampshire	4,264	224.9	14.59	-	-	-	569.0	32.98	-	-	224.9	14.59
Rhode Island	61	381.9	24.38	311	354.4	22.71	-	-	-	-	358.9	22.98
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**52,213**	**360.3**	**22.70**	**19,831**	**348.6**	**21.98**	**553.4**	**32.30**	**-**	**-**	**357.1**	**22.50**
New Jersey	4,890	357.0	22.25	365	341.8	21.48	545.1	31.97	-	-	355.9	22.19
New York	43,168	364.8	22.98	17,060	348.2	21.95	633.7	36.76	-	-	360.1	22.69
Pennsylvania	4,155	318.4	20.22	2,407	352.7	22.27	548.4	32.00	-	-	330.9	20.97
East North Central	**1,626**	**371.1**	**23.60**	**1,549**	**286.6**	**17.93**	**513.1**	**29.71**	**-**	**-**	**330.2**	**20.83**
Illinois	1,488	375.6	23.95	193	266.8	16.81	525.6	30.52	-	-	363.2	23.13
Indiana	-	-	-	-	-	-	512.2	29.52	-	-	-	-
Michigan	138	321.5	19.85	1,164	285.6	17.76	459.9	26.62	-	-	289.4	17.98
Ohio	-	-	-	192	311.6	20.07	539.5	31.22	-	-	311.6	20.07
Wisconsin	-	-	-	-	-	-	526.1	30.76	-	-	-	-
West North Central	**-**	**-**	**-**	**43**	**185.5**	**11.92**	**540.2**	**31.27**	**-**	**-**	**185.5**	**11.92**
Iowa	-	-	-	-	-	-	518.1	30.01	-	-	-	-
Kansas	-	-	-	-	-	-	540.4	31.36	-	-	-	-
Minnesota	-	-	-	-	-	-	533.3	30.83	-	-	-	-
Missouri	-	-	-	34	179.6	11.66	511.4	29.54	-	-	179.6	11.66
Nebraska	-	-	-	-	-	-	703.4	40.78	-	-	-	-
North Dakota	-	-	-	9	209.1	12.91	559.9	32.39	-	-	209.1	12.91
South Dakota	-	-	-	-	-	-	565.3	33.24	-	-	-	-
South Atlantic	**33,860**	**311.5**	**19.74**	**19,207**	**286.2**	**18.13**	**540.0**	**31.47**	**333.4**	**20.37**	**302.4**	**19.16**
Delaware	1,263	282.8	18.02	659	247.4	15.82	458.2	26.55	-	-	270.6	17.27
District of Columbia	-	-	-	-	-	-	428.8	24.79	362.5	21.82	-	-
Florida	24,513	308.4	19.60	17,521	286.8	18.18	509.3	29.80	-	-	299.4	19.01
Georgia	18	221.7	13.76	34	215.5	13.51	544.1	31.54	-	-	217.6	13.59
Maryland	6,317	308.5	19.43	263	345.6	21.94	528.8	30.57	261.1	16.57	310.0	19.53
North Carolina	-	-	-	-	-	-	512.1	29.73	-	-	-	-
South Carolina	-	-	-	-	-	-	622.1	36.07	-	-	-	-
Virginia	1,749	390.0	24.04	730	290.3	18.06	582.7	34.21	-	-	360.4	22.28
West Virginia	-	-	-	-	-	-	572.4	33.49	-	-	-	-
East South Central	**1,161**	**235.6**	**15.00**	**10**	**186.8**	**11.84**	**558.0**	**32.49**	**-**	**-**	**235.1**	**14.97**
Alabama	-	-	-	-	-	-	556.9	32.09	-	-	-	-
Kentucky	-	-	-	-	-	-	575.0	33.56	-	-	-	-
Mississippi	1,161	235.6	15.00	10	186.8	11.84	480.4	28.43	-	-	235.1	14.97
Tennessee	-	-	-	-	-	-	560.8	32.70	-	-	-	-
West South Central	**120**	**305.6**	**19.08**	**254**	**269.0**	**17.22**	**553.3**	**32.27**	**440.4**	**27.17**	**280.5**	**17.81**
Arkansas	15	274.6	17.26	-	-	-	494.3	28.58	-	-	274.6	17.26
Louisiana	48	261.3	16.30	143	241.5	15.14	500.6	29.64	-	-	246.5	15.43
Oklahoma	-	-	-	110	302.2	19.88	728.3	43.77	-	-	302.2	19.88
Texas	58	350.0	21.83	1	350.0	21.83	577.6	33.59	440.4	27.17	350.0	21.83
Mountain	**62**	**303.6**	**18.95**	**310**	**310.1**	**19.36**	**537.8**	**31.38**	**223.4**	**13.60**	**309.0**	**19.29**
Arizona	-	-	-	108	347.6	21.59	511.4	30.00	-	-	347.6	21.59
Colorado	-	-	-	-	-	-	534.5	30.76	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	543.2	32.17	-	-	-	-
Nevada	62	303.6	18.95	202	290.2	18.16	646.7	37.47	-	-	293.3	18.35
New Mexico	-	-	-	-	-	-	622.2	35.54	223.4	13.60	-	-
Utah	-	-	-	-	-	-	541.5	31.84	-	-	-	-
Wyoming	-	-	-	-	-	-	526.8	30.72	-	-	-	-
Pacific Contiguous	**5,772**	**431.8**	**26.35**	**6,674**	**439.1**	**27.05**	**456.6**	**26.87**	**-**	**-**	**435.7**	**26.73**
California	5,772	431.8	26.35	6,673	439.1	27.05	-	-	-	-	435.8	26.73
Oregon	-	-	-	-	-	-	347.3	20.28	-	-	-	-
Washington	-	-	-	*	305.0	19.98	514.5	30.41	-	-	305.0	19.98
Pacific Noncontiguous	**10,559**	**415.2**	**25.96**	**-**	**-**	**-**	**578.6**	**33.77**	**-**	**-**	**415.2**	**25.96**
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	10,559	415.2	25.96	-	-	-	578.6	33.77	-	-	415.2	25.96
Total	**144,869**	**333.2**	**21.02**	**55,956**	**327.7**	**20.64**	**538.5**	**31.34**	**361.5**	**22.14**	**331.7**	**20.92**

* = Number less than 0.5.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

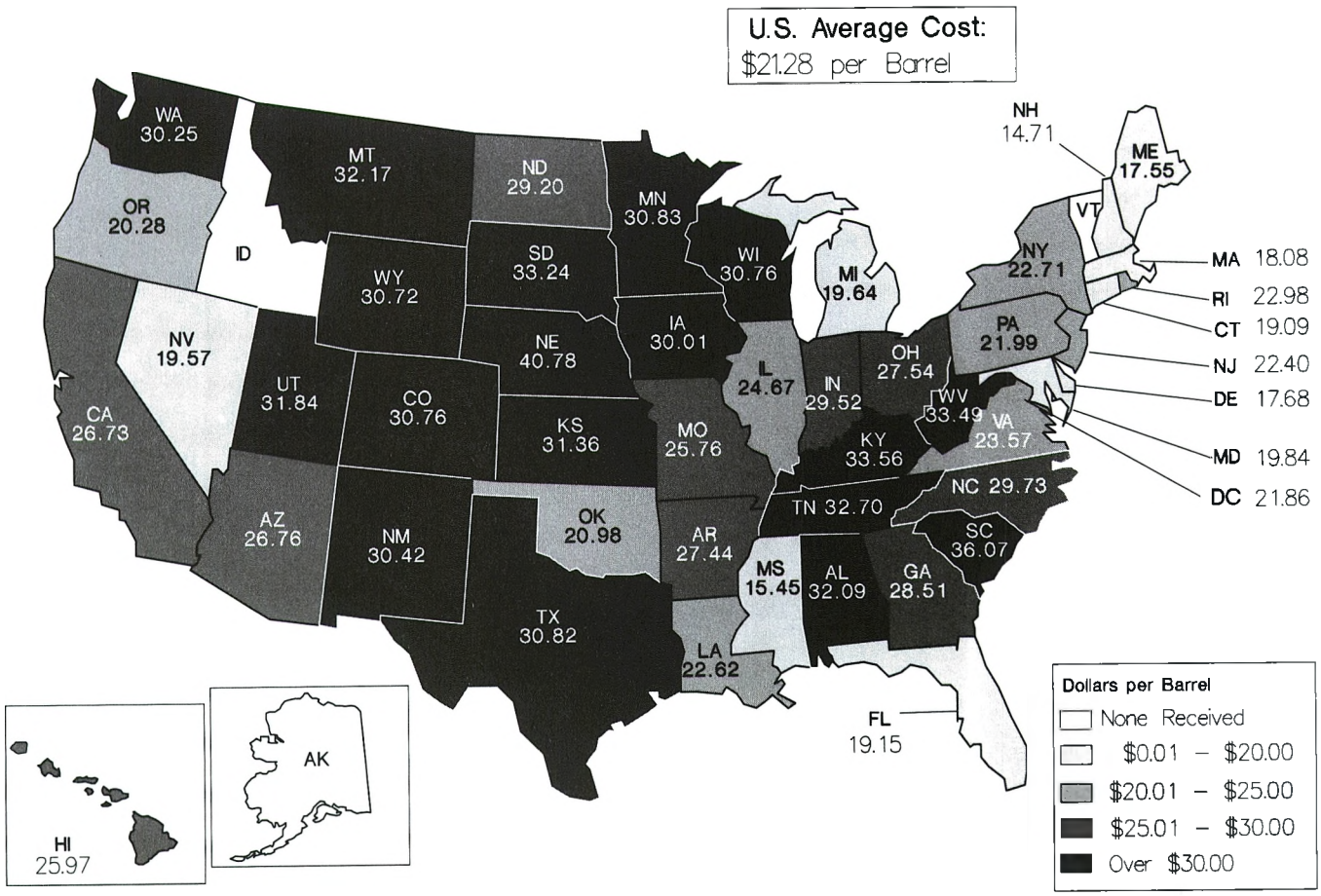
Figure 3. Receipts of Petroleum, 1990



Notes: •Total may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulator Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Figure 4. Average Delivered Cost of Petroleum, 1990



Notes: •Total may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulator Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 15. Receipts of Petroleum by Type, Census Division, and State, 1990
(Thousand Barrels)

Census Division and State	Receipts by Type					
	No. 2 Fuel Oil	No. 4 Fuel Oil[1]	No. 5 Fuel Oil[1]	No. 6 Fuel Oil	Crude Oil[2]	Total
New England	**144**	-	-	**47,573**	-	**47,717**
Connecticut	37	-	-	14,651	-	14,688
Maine	10	-	-	3,781	-	3,790
Massachusetts	69	-	-	24,506	-	24,575
New Hampshire	28	-	-	4,264	-	4,292
Rhode Island	-	-	-	372	-	372
Vermont	-	-	-	-	-	-
Middle Atlantic	**833**	-	-	**72,045**	-	**72,878**
New Jersey	112	-	-	5,254	-	5,367
New York	54	-	-	60,228	-	60,282
Pennsylvania	667	-	-	6,562	-	7,229
East North Central	**1,568**	-	-	**3,175**	-	**4,743**
Illinois	443	-	-	1,681	-	2,124
Indiana	360	-	-	-	-	360
Michigan	309	-	-	1,302	-	1,610
Ohio	389	-	-	192	-	581
Wisconsin	67	-	-	-	-	67
West North Central	**360**	-	-	**43**	-	**404**
Iowa	86	-	-	-	-	86
Kansas	39	-	-	-	-	39
Minnesota	26	-	-	-	-	26
Missouri	128	-	-	34	-	162
Nebraska	28	-	-	-	-	28
North Dakota	46	-	-	9	-	55
South Dakota	7	-	-	-	-	7
South Atlantic	**2,184**	**761**	**290**	**53,067**	-	**56,302**
Delaware	89	-	-	1,922	-	2,011
District of Columbia	10	761	-	-	-	771
Florida	541	-	-	42,034	-	42,575
Georgia	253	-	-	51	-	304
Maryland	274	-	290	6,581	-	7,144
North Carolina	246	-	-	-	-	246
South Carolina	114	-	-	-	-	114
Virginia	302	-	-	2,479	-	2,781
West Virginia	355	-	-	-	-	355
East South Central	**472**	-	-	**1,172**	-	**1,643**
Alabama	125	-	-	-	-	125
Kentucky	190	-	-	-	-	190
Mississippi	44	-	-	1,172	-	1,215
Tennessee	113	-	-	-	-	113
West South Central	**1,037**	**79**	**314**	**374**	-	**1,804**
Arkansas	130	-	-	15	-	145
Louisiana	195	-	-	191	-	386
Oklahoma	5	-	-	110	-	115
Texas	707	79	314	59	-	1,158
Mountain	**432**	-	**13**	**371**	-	**816**
Arizona	172	-	-	108	-	280
Colorado	37	-	-	-	-	37
Idaho	-	-	-	-	-	-
Montana	40	-	-	-	-	40
Nevada	18	-	-	264	-	282
New Mexico	42	-	13	-	-	55
Utah	23	-	-	-	-	23
Wyoming	99	-	-	-	-	99
Pacific Contiguous	**38**	-	-	**12,446**	-	**12,484**
California	-	-	-	12,445	-	12,445
Oregon	13	-	-	-	-	13
Washington	25	-	-	•	-	25
Pacific Noncontiguous	**1**	-	-	**10,559**	-	**10,560**
Alaska	-	-	-	-	-	-
Hawaii	1	-	-	10,559	-	10,560
Total	**7,070**	**840**	**616**	**200,824**	-	**209,350**

[1] Blend of No. 2 Fuel Oil and No. 6 Fuel Oil.
[2] Includes small quantities of Topped Crude.
* = Number less than 0.5

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 16. Receipts and Average Delivered Cost of Petroleum by Sulfur Content, Census Division and State, 1990

Census Division and State	0.3% or Less			More than 0.3% up to 0.5%			More than 0.5% up to 1.0%		
	Quantity (1,000 bbls)	(cents per 10^6 Btu)	($ per bbl)	Quantity (1,000 bbls)	(cents per 10^6 Btu)	($ per bbl)	Quantity (1,000 bbls)	(cents per 10^6 Btu)	($ per bbl)
New England	**52**	**511.0**	**32.00**	**4,483**	**335.5**	**21.03**	**21,697**	**290.2**	**18.38**
Connecticut	-	-	-	2,799	327.7	20.56	11,848	294.5	18.70
Maine	-	-	-	632	288.2	18.12	2,444	279.2	17.57
Massachusetts	52	511.0	32.00	1,018	392.3	24.46	7,034	282.9	17.88
New Hampshire	-	-	-	34	171.7	11.05	-	-	-
Rhode Island	-	-	-	-	-	-	372	358.9	22.98
Vermont	-	-	-	-	-	-	-	-	-
Middle Atlantic	**23,605**	**404.2**	**25.15**	**8,025**	**374.5**	**23.46**	**24,791**	**331.8**	**21.08**
New Jersey	4,120	363.5	22.58	278	320.0	20.08	856	331.6	21.05
New York	19,485	412.8	25.69	5,157	401.3	25.01	19,962	331.5	21.07
Pennsylvania	-	-	-	2,589	327.6	20.71	3,973	333.1	21.14
East North Central	**-**	**-**	**-**	**33**	**356.5**	**22.52**	**3,017**	**331.3**	**20.88**
Illinois	-	-	-	-	-	-	1,681	363.2	23.13
Indiana	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	8	266.1	16.22	1,294	289.5	17.99
Ohio	-	-	-	25	383.8	24.52	42	308.7	19.82
Wisconsin	-	-	-	-	-	-	-	-	-
West North Central	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Iowa	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-
Missouri	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-
South Atlantic	**-**	**-**	**-**	**14**	**204.7**	**13.05**	**34,597**	**320.0**	**20.28**
Delaware	-	-	-	-	-	-	1,430	266.2	16.99
District of Columbia	-	-	-	-	-	-	761	362.5	21.82
Florida	-	-	-	-	-	-	26,407	318.9	20.28
Georgia	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	14	204.7	13.05	4,467	321.3	20.22
North Carolina	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	1,532	366.0	22.61
West Virginia	-	-	-	-	-	-	-	-	-
East South Central	**23**	**250.9**	**15.93**	**-**	**-**	**-**	**-**	**-**	**-**
Alabama	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-
Mississippi	23	250.9	15.93	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-
West South Central	**180**	**255.4**	**15.80**	**313**	**475.2**	**29.54**	**116**	**324.5**	**20.22**
Arkansas	15	274.6	17.26	-	-	-	-	-	-
Louisiana	122	238.3	14.89	-	-	-	2	288.3	18.22
Oklahoma	-	-	-	-	-	-	21	301.0	19.92
Texas	44	298.0	17.83	313	475.2	29.54	94	330.6	20.32
Mountain	**35**	**366.3**	**22.82**	**-**	**-**	**-**	**280**	**312.4**	**19.48**
Arizona	9	547.1	33.93	-	-	-	84	349.4	21.68
Colorado	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-
Nevada	26	303.6	18.95	-	-	-	182	301.5	18.88
New Mexico	-	-	-	-	-	-	13	223.4	13.60
Utah	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-
Pacific Contiguous	**9,609**	**454.9**	**27.77**	**1,464**	**442.0**	**27.40**	**720**	**360.2**	**22.66**
California	9,609	454.9	27.77	1,464	442.0	27.40	720	360.2	22.66
Oregon	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-
Pacific Noncontiguous	**1**	**405.9**	**25.12**	**10,558**	**415.2**	**25.96**	**-**	**-**	**-**
Alaska	-	-	-	-	-	-	-	-	-
Hawaii	1	405.9	25.12	10,558	415.2	25.96	-	-	-
Total	**33,505**	**417.8**	**25.85**	**24,890**	**389.8**	**24.38**	**85,218**	**316.6**	**20.07**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • No. 2 Fuel Oil has been omitted from this table.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 16. Receipts and Average Delivered Cost of Petroleum by Sulfur Content, Census Divison and State, 1990 (Continued)

Census Division and State	More than 1.0% up to 2.0%			More than 2.0% up to 3.0%			More than 3.0%			Heavy Oil Purchases	
	Quantity (1,000 bbls)	(cents per 10^6 Btu)	($ per bbl)	Quantity (1,000 bbls)	(cents per 10^6 Btu)	($ per bbl)	Quantity (1,000 bbls)	(cents per 10^6 Btu)	($ per bbl)	(cents per 10^6 Btu)	($ per bbl)
New England	**7,961**	**266.6**	**17.09**	**13,380**	**269.2**	**17.00**	**-**	**-**	**-**	**284.8**	**18.04**
Connecticut	4	407.4	25.64	-	-	-	-	-	-	300.8	19.06
Maine	94	313.7	20.01	610	256.3	16.24	-	-	-	277.9	17.51
Massachusetts	3,834	306.4	19.43	12,568	271.6	17.13	-	-	-	285.8	18.04
New Hampshire	4,029	228.2	14.79	202	168.0	11.05	-	-	-	224.9	14.59
Rhode Island	-	-	-	-	-	-	-	-	-	358.9	22.98
Vermont	-	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**15,472**	**318.8**	**20.26**	**152**	**320.5**	**20.43**	**-**	**-**	**-**	**357.1**	**22.50**
New Jersey	-	-	-	-	-	-	-	-	-	355.9	22.19
New York	15,472	318.8	20.26	152	320.5	20.43	-	-	-	360.1	22.69
Pennsylvania	-	-	-	-	-	-	-	-	-	330.9	20.97
East North Central	**124**	**298.2**	**19.26**	**-**	**-**	**-**	**-**	**-**	**-**	**330.2**	**20.83**
Illinois	-	-	-	-	-	-	-	-	-	363.2	23.13
Indiana	-	-	-	-	-	-	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	289.4	17.98
Ohio	124	298.2	19.26	-	-	-	-	-	-	311.6	20.07
Wisconsin	-	-	-	-	-	-	-	-	-	-	-
West North Central	**15**	**155.6**	**10.16**	**9**	**209.1**	**12.91**	**19**	**198.0**	**12.80**	**185.5**	**11.92**
Iowa	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-
Missouri	15	155.6	10.16	-	-	-	19	198.0	12.80	179.6	11.66
Nebraska	-	-	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	9	209.1	12.91	-	-	-	209.1	12.91
South Dakota	-	-	-	-	-	-	-	-	-	-	-
South Atlantic	**15,442**	**273.5**	**17.29**	**4,064**	**269.5**	**17.08**	**-**	**-**	**-**	**302.9**	**19.18**
Delaware	204	270.4	17.23	288	293.0	18.66	-	-	-	270.6	17.27
District of Columbia	-	-	-	-	-	-	-	-	-	362.5	21.82
Florida	11,895	265.6	16.81	3,732	268.3	17.00	-	-	-	299.4	19.01
Georgia	7	207.7	13.10	44	219.2	13.67	-	-	-	217.6	13.59
Maryland	2,390	283.6	17.93	-	-	-	-	-	-	307.9	19.41
North Carolina	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-
Virginia	947	351.3	21.73	-	-	-	-	-	-	360.4	22.28
West Virginia	-	-	-	-	-	-	-	-	-	-	-
East South Central	**-**	**-**	**-**	**1,024**	**232.1**	**14.78**	**125**	**257.0**	**16.34**	**235.1**	**14.97**
Alabama	-	-	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-
Mississippi	-	-	-	1,024	232.1	14.78	125	257.0	16.34	235.1	14.97
Tennessee	-	-	-	-	-	-	-	-	-	-	-
West South Central	**157**	**284.7**	**18.35**	**-**	**-**	**-**	**-**	**-**	**-**	**361.2**	**22.60**
Arkansas	-	-	-	-	-	-	-	-	-	274.6	17.26
Louisiana	68	260.1	16.33	-	-	-	-	-	-	246.5	15.43
Oklahoma	89	302.5	19.86	-	-	-	-	-	-	302.2	19.88
Texas	-	-	-	-	-	-	-	-	-	428.5	26.48
Mountain	**70**	**251.5**	**15.71**	**-**	**-**	**-**	**-**	**-**	**-**	**306.2**	**19.10**
Arizona	14	213.9	13.40	-	-	-	-	-	-	347.6	21.59
Colorado	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-	-	-	-	-
Nevada	55	261.3	16.31	-	-	-	-	-	-	293.3	18.35
New Mexico	-	-	-	-	-	-	-	-	-	223.4	13.60
Utah	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-
Pacific Contiguous	**653**	**229.3**	**14.30**	**-**	**-**	**-**	**-**	**-**	**-**	**435.7**	**26.73**
California	652	229.3	14.30	-	-	-	-	-	-	435.8	26.73
Oregon	-	-	-	-	-	-	-	-	-	-	-
Washington	*	305.0	19.98	-	-	-	-	-	-	305.0	19.98
Pacific Noncontiguous	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**415.2**	**25.96**
Alaska	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	415.2	25.96
Total	**39,894**	**289.0**	**18.36**	**18,629**	**267.6**	**16.92**	**144**	**248.9**	**15.86**	**331.9**	**20.93**

* = Number less than 0.5.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • No. 2 Fuel Oil has been omitted from this table.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 17. Monthly Statistics of Petroleum by Census Division, 1990

Census Division	January	February	March	April	May	June
New England						
Receipts Purchased, 1,000 Bbls	6,799	4,692	4,250	4,771	5,385	5,005
Total Heating Val, Billion Btu	42,790.6	29,658.2	26,850.8	30,280.2	34,175.0	31,758.4
Sulfur Content, % by Weight	1.3	1.2	1.5	1.5	1.4	1.3
Avg. Cost, Cents per Million Btu	355.8	291.9	252.4	243.4	233.3	203.7
Total Est. Oil Bill, $1,000	152,266.7	86,574.4	67,763.4	73,712.3	79,723.3	64,697.1
Middle Atlantic						
Receipts Purchased, 1,000 Bbls	10,602	7,231	5,719	4,852	4,795	4,794
Total Heating Val, Billion Btu	66,314.4	45,578.4	36,048.1	30,606.1	30,157.0	30,261.4
Sulfur Content, % by Weight	.6	.7	.7	.7	.7	.7
Avg. Cost, Cents per Million Btu	465.1	341.9	285.7	258.2	252.2	234.2
Total Est. Oil Bill, $1,000	308,396.1	155,828.8	102,982.3	79,027.3	76,051.2	70,879.5
East North Central						
Receipts Purchased, 1,000 Bbls	473	383	452	249	314	450
Total Heating Val, Billion Btu	2,889.9	2,347.1	2,749.1	1,504.7	1,902.9	2,793.3
Sulfur Content, % by Weight	.6	.6	.6	.5	.6	.7
Avg. Cost, Cents per Million Btu	412.8	357.5	374.2	350.4	340.5	302.6
Total Est. Oil Bill, $1,000	11,928.5	8,391.7	10,287.3	5,273.1	6,479.5	8,452.9
West North Central						
Receipts Purchased, 1,000 Bbls	50	19	21	30	15	42
Total Heating Val, Billion Btu	293.7	121.1	121.0	175.1	85.3	243.1
Sulfur Content, % by Weight	.7	2.1	.5	.4	.2	.4
Avg. Cost, Cents per Million Btu	454.8	274.1	411.5	413.5	428.0	364.5
Total Est. Oil Bill, $1,000	1,335.8	332.0	497.9	723.8	365.0	886.2
South Atlantic						
Receipts Purchased, 1,000 Bbls	4,791	3,317	2,496	3,079	4,110	6,693
Total Heating Val, Billion Btu	29,895.7	20,766.3	15,699.2	19,518.3	25,955.1	42,395.2
Sulfur Content, % by Weight	1.3	1.3	1.2	1.3	1.2	1.2
Avg. Cost, Cents per Million Btu	366.0	291.5	264.8	241.2	243.1	209.2
Total Est. Oil Bill, $1,000	109,417.2	60,531.1	41,564.0	47,073.1	63,107.1	88,701.2
East South Central						
Receipts Purchased, 1,000 Bbls	145	24	19	39	60	611
Total Heating Val, Billion Btu	912.7	141.5	111.4	236.8	358.8	3,872.9
Sulfur Content, % by Weight	3.3	.4	.3	1.5	.2	2.7
Avg. Cost, Cents per Million Btu	294.1	461.6	455.3	387.8	357.6	261.3
Total Est. Oil Bill, $1,000	2,684.8	653.1	507.1	918.2	1,283.1	10,119.9
West South Central						
Receipts Purchased, 1,000 Bbls	355	84	43	69	59	49
Total Heating Val, Billion Btu	2,099.1	488.2	253.7	406.0	348.3	289.4
Sulfur Content, % by Weight	.4	.4	.4	.2	.5	.2
Avg. Cost, Cents per Million Btu	504.4	450.1	446.7	434.7	423.2	396.1
Total Est. Oil Bill, $1,000	10,586.8	2,197.3	1,133.0	1,765.0	1,474.0	1,146.2
Mountain						
Receipts Purchased, 1,000 Bbls	113	63	84	116	74	70
Total Heating Val, Billion Btu	695.3	376.1	511.0	702.4	442.6	418.1
Sulfur Content, % by Weight	.8	.5	.6	.7	.2	.6
Avg. Cost, Cents per Million Btu	363.4	432.5	393.8	381.9	416.6	350.4
Total Est. Oil Bill, $1,000	2,526.4	1,626.9	2,012.3	2,682.4	1,844.1	1,465.1
Pacific Contiguous						
Receipts Purchased, 1,000 Bbls	3,081	3,131	1,765	80	15	77
Total Heating Val, Billion Btu	18,908.7	19,033.5	10,802.6	504.9	94.3	480.1
Sulfur Content, % by Weight	.3	.2	.3	.9	.2	1.3
Avg. Cost, Cents per Million Btu	413.6	435.9	424.0	308.4	325.2	230.3
Total Est. Oil Bill, $1,000	78,198.1	82,972.6	45,802.1	1,557.1	306.6	1,105.5
Pacific Noncontiguous						
Receipts Purchased, 1,000 Bbls	1,006	739	644	691	707	822
Total Heating Val, Billion Btu	6,306.9	4,628.8	4,045.4	4,305.6	4,438.4	5,121.8
Sulfur Content, % by Weight	.5	.4	.5	.5	.5	.5
Avg. Cost, Cents per Million Btu	371.7	440.8	453.5	396.9	334.8	315.0
Total Est. Oil Bill, $1,000	23,444.6	20,404.3	18,345.5	17,087.3	14,859.1	16,131.1
Total						
Receipts Purchased, 1,000 Bbls	27,415	19,683	15,494	13,977	15,534	18,612
Total Heating Val, Billion Btu	171,107.0	123,139.0	97,192.2	88,240.1	97,957.5	117,633.7
Sulfur Content, % by Weight	.9	.9	.9	1.1	1.0	1.1
Avg. Cost, Cents per Million Btu	409.6	340.7	299.3	260.4	250.6	224.1
Total Est. Oil Bill, $1,000	700,785.0	419,512.2	290,894.8	229,819.7	245,493.0	263,584.7

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 17. Monthly Statistics of Petroleum by Census Division, 1990 (Continued)

Census Division	July	August	September	October	November	December	12-Month Total
New England							
Receipts Purchased, 1,000 Bbls	4,561	2,453	2,167	2,221	2,916	2,498	47,717
Total Heating Val, Billion Btu	28,962.2	15,548.4	13,843.5	14,075.2	18,529.9	15,771.4	302,243.8
Sulfur Content, % by Weight	1.3	1.4	1.3	1.6	1.5	1.2	1.4
Avg. Cost, Cents per Million Btu	221.1	305.2	350.6	370.5	360.8	375.6	285.5
Total Est. Oil Bill, $1,000	64,023.3	47,446.4	48,528.8	52,145.2	66,850.7	59,235.3	862,966.8
Middle Atlantic							
Receipts Purchased, 1,000 Bbls	7,893	7,073	5,171	4,288	4,920	5,541	72,878
Total Heating Val, Billion Btu	49,696.6	44,627.9	32,559.7	26,982.3	31,000.3	34,940.3	458,772.4
Sulfur Content, % by Weight	.7	.8	.8	.7	.8	.8	.7
Avg. Cost, Cents per Million Btu	256.5	370.2	440.1	464.8	457.1	433.8	359.2
Total Est. Oil Bill, $1,000	127,496.1	165,233.2	143,283.9	125,421.3	141,705.9	151,576.0	1,647,881.7
East North Central							
Receipts Purchased, 1,000 Bbls	583	487	374	381	279	318	4,743
Total Heating Val, Billion Btu	3,599.7	3,011.2	2,289.7	2,359.1	1,716.5	1,945.2	29,108.4
Sulfur Content, % by Weight	.6	.6	.6	.6	.5	.6	.6
Avg. Cost, Cents per Million Btu	291.1	391.8	430.9	479.0	549.3	464.4	387.2
Total Est. Oil Bill, $1,000	10,478.1	11,799.3	9,867.3	11,299.5	9,429.2	9,033.6	112,720.1
West North Central							
Receipts Purchased, 1,000 Bbls	55	21	24	67	27	33	404
Total Heating Val, Billion Btu	323.8	128.1	136.7	387.9	155.6	192.3	2,363.6
Sulfur Content, % by Weight	.4	.6	.1	.2	.3	.3	.5
Avg. Cost, Cents per Million Btu	337.7	450.2	673.1	728.0	690.7	598.7	498.4
Total Est. Oil Bill, $1,000	1,093.5	576.7	920.1	2,824.0	1,074.9	1,151.1	11,780.9
South Atlantic							
Receipts Purchased, 1,000 Bbls	7,314	7,578	5,173	4,200	4,101	3,449	56,302
Total Heating Val, Billion Btu	46,230.9	47,836.3	32,824.0	26,616.8	25,987.7	21,660.3	355,385.8
Sulfur Content, % by Weight	1.2	1.1	1.2	1.2	1.1	1.1	1.2
Avg. Cost, Cents per Million Btu	232.1	349.1	373.7	413.8	414.8	376.1	311.4
Total Est. Oil Bill, $1,000	107,309.5	167,006.3	122,670.8	110,147.6	107,795.3	81,458.6	1,106,781.7
East South Central							
Receipts Purchased, 1,000 Bbls	138	140	248	47	60	112	1,643
Total Heating Val, Billion Btu	856.6	866.7	1,545.1	275.0	345.8	683.0	10,206.3
Sulfur Content, % by Weight	2.1	2.2	2.3	.6	.3	1.6	2.2
Avg. Cost, Cents per Million Btu	284.2	313.2	292.4	684.8	685.7	406.6	322.0
Total Est. Oil Bill, $1,000	2,434.4	2,714.6	4,517.5	1,882.9	2,371.2	2,777.4	32,864.3
West South Central							
Receipts Purchased, 1,000 Bbls	128	136	96	175	320	290	1,804
Total Heating Val, Billion Btu	782.3	825.9	575.3	1,086.5	1,958.3	1,734.4	10,847.3
Sulfur Content, % by Weight	.3	.5	.5	.9	.5	.4	.5
Avg. Cost, Cents per Million Btu	300.2	360.1	446.6	437.0	531.8	544.8	468.4
Total Est. Oil Bill, $1,000	2,348.9	2,973.9	2,569.2	4,748.1	10,413.8	9,449.0	50,805.3
Mountain							
Receipts Purchased, 1,000 Bbls	91	60	29	31	38	46	816
Total Heating Val, Billion Btu	556.8	365.1	172.7	181.4	221.3	273.1	4,915.9
Sulfur Content, % by Weight	.7	.5	.4	.3	.2	.5	.6
Avg. Cost, Cents per Million Btu	318.8	390.0	558.1	698.9	729.3	616.6	424.9
Total Est. Oil Bill, $1,000	1,775.2	1,424.1	963.7	1,267.7	1,613.7	1,683.8	20,885.3
Pacific Contiguous							
Receipts Purchased, 1,000 Bbls	862	473	3	1,405	262	1,330	12,484
Total Heating Val, Billion Btu	5,281.1	2,906.1	16.2	8,631.4	1,614.3	8,282.9	76,556.0
Sulfur Content, % by Weight	.7	.3	.5	.3	.3	.4	.3
Avg. Cost, Cents per Million Btu	235.9	222.0	419.3	559.4	594.7	565.4	435.8
Total Est. Oil Bill, $1,000	12,458.7	6,450.8	67.7	48,284.9	9,599.6	46,835.9	333,639.5
Pacific Noncontiguous							
Receipts Purchased, 1,000 Bbls	1,157	900	754	1,154	977	1,008	10,560
Total Heating Val, Billion Btu	7,220.5	5,650.5	4,694.3	7,207.7	6,121.3	6,292.5	66,033.7
Sulfur Content, % by Weight	.5	.5	.5	.5	.5	.5	.5
Avg. Cost, Cents per Million Btu	282.4	282.3	411.3	544.2	555.1	557.4	415.2
Total Est. Oil Bill, $1,000	20,392.8	15,950.7	19,308.0	39,222.8	33,977.0	35,073.2	274,196.6
Total							
Receipts Purchased, 1,000 Bbls	22,783	19,321	14,038	13,969	13,900	14,625	209,350
Total Heating Val, Billion Btu	143,510.5	121,766.3	88,657.1	87,803.2	87,651.1	91,775.4	1,316,433.2
Sulfur Content, % by Weight	1.0	1.0	1.0	.9	1.0	.9	1.0
Avg. Cost, Cents per Million Btu	243.8	346.2	397.8	452.4	439.0	434.0	338.4
Total Est. Oil Bill, $1,000	349,810.5	421,576.1	352,697.0	397,244.0	384,831.4	398,273.9	4,454,522.3

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 18. Receipts of Gas by Census Division and State, 1986-1990
(Thousand Mcf)

Census Division and State	1990	1989	1988	1987	1986
New England	**58,576**	**48,076**	**14,978**	**44,762**	**10,918**
Connecticut	4,863	3,297	1,260	7,370	740
Maine	-	-	-	-	-
Massachusetts	47,779	42,540	13,552	31,682	10,178
New Hampshire	-	-	-	-	-
Rhode Island	5,933	2,239	166	5,710	-
Vermont	-	-	-	-	-
Middle Atlantic	**253,456**	**211,669**	**176,698**	**218,018**	**156,460**
New Jersey	34,822	39,338	34,051	52,672	24,271
New York	218,442	172,068	142,255	165,095	131,959
Pennsylvania	192	264	392	251	231
East North Central	**36,391**	**27,106**	**22,216**	**15,302**	**17,701**
Illinois	7,041	5,111	4,521	2,419	5,487
Indiana	6,294	3,863	3,074	1,089	891
Michigan	20,619	16,247	13,141	10,400	10,019
Ohio	941	590	478	530	276
Wisconsin	1,496	1,295	1,003	864	1,027
West North Central	**31,325**	**21,058**	**22,480**	**19,343**	**15,999**
Iowa	2,211	2,009	3,844	2,638	1,241
Kansas	21,221	14,254	12,923	10,835	11,349
Minnesota	2,398	1,964	3,370	3,570	1,309
Missouri	2,378	606	702	858	749
Nebraska	3,117	2,224	1,640	1,438	1,351
North Dakota	*	*	1	4	-
South Dakota	-	-	-	-	-
South Atlantic	**185,818**	**185,448**	**138,859**	**170,015**	**150,689**
Delaware	4,213	6,087	1,304	7,856	1,667
District of Columbia	-	-	-	-	-
Florida	157,513	155,902	129,897	149,938	140,541
Georgia	1,757	626	1,334	805	5,787
Maryland	15,195	17,307	3,874	8,687	799
North Carolina	-	-	-	-	-
South Carolina	5,877	1,881	1,664	236	994
Virginia	1,094	3,517	700	2,404	743
West Virginia	169	129	86	88	157
East South Central	**55,419**	**38,538**	**29,958**	**37,609**	**45,660**
Alabama	2,581	1,556	1,080	858	687
Kentucky	236	320	400	319	414
Mississippi	52,602	36,663	28,478	36,431	44,559
Tennessee	-	-	-	-	-
West South Central	**1,375,523**	**1,375,525**	**1,402,134**	**1,455,725**	**1,540,621**
Arkansas	31,951	29,473	21,976	32,066	28,445
Louisiana	236,550	212,443	237,906	238,150	261,720
Oklahoma	141,150	150,296	151,747	155,820	175,574
Texas	965,872	983,314	990,506	1,029,689	1,074,882
Mountain	**61,017**	**80,436**	**46,002**	**40,891**	**40,075**
Arizona	11,302	28,420	11,179	13,931	15,654
Colorado	2,451	4,754	5,205	5,022	2,095
Idaho	-	-	-	-	-
Montana	286	330	281	477	407
Nevada	22,516	20,859	9,150	6,166	5,967
New Mexico	24,389	25,986	20,002	15,201	15,806
Utah	1	-	-	5	10
Wyoming	70	87	185	90	137
Pacific Contiguous	**433,454**	**484,649**	**509,394**	**603,526**	**409,499**
California	433,454	484,649	509,394	603,526	409,499
Oregon	-	-	-	-	-
Washington	-	-	-	-	-
Pacific Noncontiguous	-	-	-	-	-
Alaska	-	-	-	-	-
Hawaii	-	-	-	-	-
Total	**2,490,979**	**2,472,506**	**2,362,721**	**2,605,191**	**2,387,622**

* = Number less than 0.5

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 19. Average Delivered Cost of Gas by Census Division and State, 1986-1990

Census Division and State	1990	1989	1988	1987	1986	1990	1989	1988	1987	1986
	(cents per million Btu)					(dollars per Mcf)				
New England	**240.3**	**238.5**	**221.6**	**238.3**	**225.7**	**2.52**	**2.50**	**2.28**	**2.45**	**2.32**
Connecticut	270.2	251.1	217.4	236.6	208.9	2.79	2.59	2.24	2.44	2.16
Maine	-	-	-	-	-	-	-	-	-	-
Massachusetts	240.1	237.4	222.2	239.9	226.9	2.53	2.49	2.29	2.46	2.33
New Hampshire	-	-	-	-	-	-	-	-	-	-
Rhode Island	216.9	241.2	208.6	231.8	-	2.24	2.49	2.15	2.39	-
Vermont	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**235.4**	**237.4**	**224.0**	**246.8**	**228.3**	**2.43**	**2.44**	**2.31**	**2.54**	**2.36**
New Jersey	217.2	245.5	224.5	255.0	250.9	2.24	2.54	2.32	2.63	2.60
New York	238.2	235.3	223.6	244.1	223.9	2.46	2.42	2.30	2.51	2.32
Pennsylvania	294.9	348.2	333.0	334.9	360.6	3.04	3.58	3.45	3.45	3.70
East North Central	**252.9**	**285.8**	**295.7**	**313.6**	**423.3**	**1.43**	**1.34**	**1.50**	**1.88**	**2.70**
Illinois	267.0	326.2	326.9	365.6	462.1	2.73	3.32	3.34	3.75	4.74
Indiana	258.0	269.5	259.1	282.2	453.6	2.58	2.70	2.60	2.84	4.56
Michigan	210.6	174.8	255.5	276.3	363.7	.47	.19	.41	1.12	1.26
Ohio	254.6	313.2	346.5	304.4	466.9	2.57	3.15	3.51	3.07	4.75
Wisconsin	292.7	309.5	325.2	392.0	373.5	2.95	3.11	3.26	3.89	3.75
West North Central	**188.4**	**211.5**	**210.9**	**221.7**	**269.2**	**1.86**	**2.07**	**2.10**	**2.20**	**2.63**
Iowa	304.5	267.4	202.7	215.4	341.8	3.06	2.69	2.04	2.17	3.48
Kansas	175.8	197.6	206.0	217.5	250.0	1.74	1.92	2.05	2.15	2.42
Minnesota	192.1	214.6	198.4	207.5	295.4	1.93	2.16	1.99	2.07	2.95
Missouri	171.5	245.8	277.0	296.1	292.3	1.75	2.50	2.75	2.93	2.87
Nebraska	200.8	236.1	268.6	256.3	320.9	1.90	2.26	2.56	2.50	3.11
North Dakota	386.2	439.1	428.6	443.4	-	4.01	4.61	4.56	4.75	-
South Dakota	-	-	-	-	-	-	-	-	-	-
South Atlantic	**250.8**	**248.0**	**212.2**	**271.6**	**208.3**	**2.55**	**2.52**	**2.14**	**2.75**	**2.10**
Delaware	257.7	254.4	242.1	274.5	253.2	2.72	2.73	2.59	2.84	2.65
District of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	253.3	246.2	210.1	271.4	207.6	2.56	2.49	2.12	2.73	2.09
Georgia	296.8	315.6	273.4	371.5	200.4	3.04	3.23	2.80	3.80	2.05
Maryland	244.7	260.1	259.7	268.1	274.0	2.55	2.72	2.71	2.80	2.90
North Carolina	-	-	-	-	-	-	-	-	-	-
South Carolina	171.8	222.1	180.6	334.5	203.1	1.76	2.27	1.86	3.44	2.08
Virginia	258.2	247.9	204.9	242.3	192.9	2.69	2.58	2.16	2.52	2.03
West Virginia	513.3	458.8	389.2	393.6	402.6	5.13	4.59	3.89	3.94	4.03
East South Central	**178.8**	**185.6**	**186.3**	**186.5**	**232.4**	**1.85**	**1.90**	**1.91**	**1.92**	**2.41**
Alabama	215.6	220.5	207.1	210.2	247.0	2.22	2.27	2.15	2.22	2.69
Kentucky	297.5	267.3	246.0	278.1	296.6	3.04	2.73	2.52	2.84	3.03
Mississippi	176.4	183.4	184.7	185.1	231.5	1.83	1.88	1.90	1.90	2.40
Tennessee	-	-	-	-	-	-	-	-	-	-
West South Central	**210.6**	**215.7**	**207.8**	**204.1**	**223.3**	**2.18**	**2.24**	**2.15**	**2.12**	**2.32**
Arkansas	154.0	165.4	135.0	152.2	155.9	1.57	1.69	1.39	1.57	1.64
Louisiana	165.9	170.2	163.1	160.0	185.5	1.73	1.78	1.70	1.67	1.94
Oklahoma	300.8	292.5	281.3	267.4	268.3	3.14	3.05	2.92	2.78	2.79
Texas	210.2	215.3	209.0	206.3	227.0	2.18	2.23	2.16	2.14	2.35
Mountain	**202.0**	**217.2**	**229.4**	**231.3**	**285.3**	**2.08**	**2.24**	**2.35**	**2.38**	**2.98**
Arizona	236.9	224.4	224.1	220.3	235.3	2.45	2.32	2.32	2.28	2.46
Colorado	217.3	228.3	228.7	228.6	300.2	2.15	2.23	2.25	2.26	2.98
Idaho	-	-	-	-	-	-	-	-	-	-
Montana	145.2	113.8	126.3	91.9	85.6	1.77	1.38	1.53	1.11	1.03
Nevada	195.6	211.3	271.8	258.0	303.6	2.02	2.17	2.79	2.67	3.20
New Mexico	190.8	213.3	213.6	235.8	331.0	1.97	2.20	2.19	2.42	3.45
Utah	503.5	-	-	507.4	509.9	5.04	-	-	5.47	5.54
Wyoming	314.9	348.1	367.9	326.1	380.4	3.26	3.61	3.78	3.32	3.89
Pacific Contiguous	**303.1**	**292.4**	**283.1**	**250.1**	**281.0**	**3.13**	**3.04**	**2.93**	**2.59**	**2.94**
California	303.1	292.4	283.1	250.1	281.0	3.13	3.04	2.93	2.59	2.94
Oregon	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-
Pacific Noncontiguous	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-
Total	**232.1**	**235.5**	**226.3**	**224.0**	**235.1**	**2.38**	**2.42**	**2.33**	**2.31**	**2.43**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 20. Receipts and Average Delivered Cost of Gas by Census Division and State, 1990

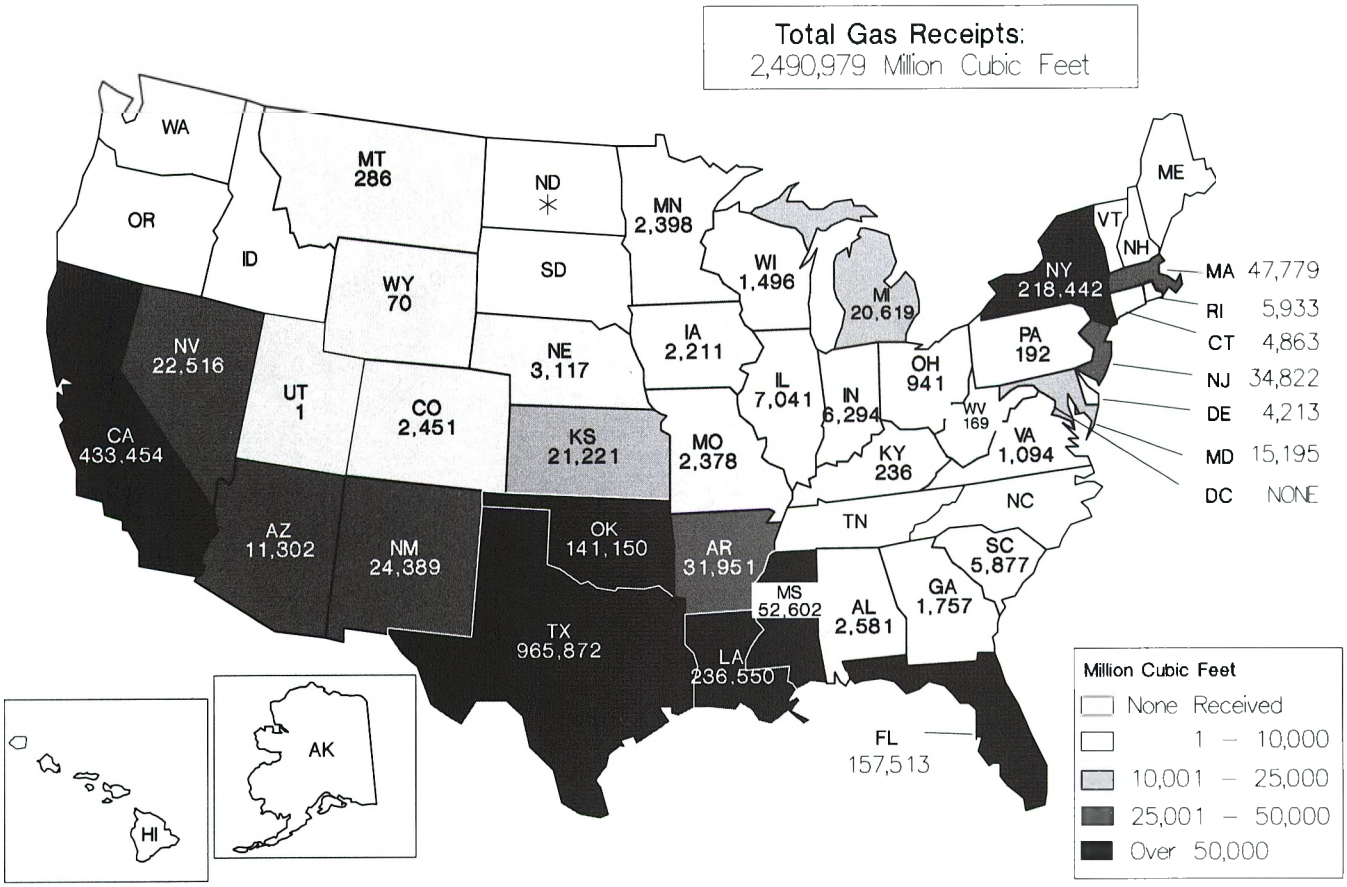
Census Division and State	Type of Purchase											
	Firm			Interruptible			Off-Peak			Total		
	Quantity (1,000 Mcf)	(cents per 10^6 Btu)	($ per Mcf)	Quantity (1,000 Mcf)	(cents per 10^6 Btu)	($ per Mcf)	Quantity (1,000 Mcf)	(cents per 10^6 Btu)	($ per Mcf)	Quantity (1,000 Mcf)	(cents per 10^6 Btu)	($ per Mcf)
New England	**74**	**502.0**	**5.20**	**57,680**	**240.4**	**2.52**	**821**	**209.4**	**2.17**	**58,576**	**240.3**	**2.52**
Connecticut	2	493.0	5.08	4,040	282.5	2.92	821	209.4	2.17	4,863	270.2	2.79
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	72	502.2	5.20	47,707	239.7	2.52	-	-	-	47,779	240.1	2.53
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	5,933	216.9	2.24	-	-	-	5,933	216.9	2.24
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**48,840**	**219.6**	**2.27**	**171,163**	**242.5**	**2.50**	**33,453**	**222.2**	**2.29**	**253,456**	**235.4**	**2.43**
New Jersey	-	-	-	34,822	217.2	2.24	-	-	-	34,822	217.2	2.24
New York	48,840	219.6	2.27	136,149	248.9	2.57	33,453	222.2	2.29	218,442	238.2	2.46
Pennsylvania	-	-	-	192	294.9	3.04	-	-	-	192	294.9	3.04
East North Central	**8,575**	**261.2**	**2.63**	**27,816**	**246.9**	**1.06**	**-**	**-**	**-**	**36,391**	**252.9**	**1.43**
Illinois	823	418.6	4.27	6,218	246.9	2.52	-	-	-	7,041	267.0	2.73
Indiana	6,256	257.7	2.58	38	299.0	3.07	-	-	-	6,294	258.0	2.58
Michigan	850	179.2	1.85	19,770	217.9	.41	-	-	-	20,619	210.6	.47
Ohio	637	200.4	2.00	304	365.5	3.74	-	-	-	941	254.6	2.57
Wisconsin	9	279.9	2.82	1,487	292.7	2.95	-	-	-	1,496	292.7	2.95
West North Central	**1,442**	**229.9**	**2.33**	**29,148**	**186.2**	**1.84**	**735**	**190.4**	**1.91**	**31,325**	**188.4**	**1.86**
Iowa	273	362.2	3.72	1,938	296.2	2.97	-	-	-	2,211	304.5	3.06
Kansas	1,080	198.9	2.02	20,141	174.6	1.73	-	-	-	21,221	175.8	1.74
Minnesota	-	-	-	1,663	192.8	1.93	735	190.4	1.91	2,398	192.1	1.93
Missouri	-	-	-	2,378	171.5	1.75	-	-	-	2,378	171.5	1.75
Nebraska	89	194.4	1.94	3,027	201.0	1.90	-	-	-	3,117	200.8	1.90
North Dakota	-	-	-	*	386.2	4.01	-	-	-	*	386.2	4.01
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Atlantic	**54,055**	**291.7**	**2.95**	**131,763**	**234.1**	**2.38**	**-**	**-**	**-**	**185,818**	**250.8**	**2.55**
Delaware	1,142	287.0	3.09	3,071	246.5	2.58	-	-	-	4,213	257.7	2.72
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Florida	51,992	292.4	2.95	105,521	234.2	2.37	-	-	-	157,513	253.3	2.56
Georgia	575	284.4	2.92	1,182	302.8	3.10	-	-	-	1,757	296.8	3.04
Maryland	346	227.6	2.39	14,849	245.1	2.55	-	-	-	15,195	244.7	2.55
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	5,877	171.8	1.76	-	-	-	5,877	171.8	1.76
Virginia	-	-	-	1,094	258.2	2.69	-	-	-	1,094	258.2	2.69
West Virginia	-	-	-	169	513.3	5.13	-	-	-	169	513.3	5.13
East South Central	**9,415**	**187.2**	**1.95**	**45,811**	**176.5**	**1.82**	**192**	**295.3**	**3.03**	**55,419**	**178.8**	**1.85**
Alabama	-	-	-	2,581	215.6	2.22	-	-	-	2,581	215.6	2.22
Kentucky	30	315.5	3.15	13	289.7	2.90	192	295.3	3.03	236	297.5	3.04
Mississippi	9,385	186.8	1.95	43,217	174.2	1.80	-	-	-	52,602	176.4	1.83
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
West South Central	**978,234**	**214.8**	**2.23**	**397,083**	**200.3**	**2.07**	**206**	**170.0**	**1.95**	**1,375,523**	**210.6**	**2.18**
Arkansas	2,927	86.3	.99	29,024	161.8	1.63	-	-	-	31,951	154.0	1.57
Louisiana	122,682	145.6	1.52	113,868	187.8	1.96	-	-	-	236,550	165.9	1.73
Oklahoma	75,519	300.8	3.16	65,631	300.8	3.12	-	-	-	141,150	300.8	3.14
Texas	777,106	217.8	2.25	188,559	178.6	1.85	206	170.0	1.95	965,872	210.2	2.18
Mountain	**14,942**	**207.9**	**2.15**	**46,074**	**200.1**	**2.06**	**-**	**-**	**-**	**61,017**	**202.0**	**2.08**
Arizona	2,841	246.5	2.55	8,461	233.6	2.42	-	-	-	11,302	236.9	2.45
Colorado	443	265.1	2.62	2,008	206.8	2.04	-	-	-	2,451	217.3	2.15
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Montana	276	137.2	1.67	10	372.9	4.21	-	-	-	286	145.2	1.77
Nevada	836	226.7	2.34	21,680	194.4	2.00	-	-	-	22,516	195.6	2.02
New Mexico	10,547	195.9	2.03	13,843	187.0	1.93	-	-	-	24,389	190.8	1.97
Utah	-	-	-	1	503.5	5.04	-	-	-	1	503.5	5.04
Wyoming	-	-	-	70	314.9	3.26	-	-	-	70	314.9	3.26
Pacific Contiguous	**-**	**-**	**-**	**433,454**	**303.1**	**3.13**	**-**	**-**	**-**	**433,454**	**303.1**	**3.13**
California	-	-	-	433,454	303.1	3.13	-	-	-	433,454	303.1	3.13
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-
Pacific Noncontiguous	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Total	**1,115,577**	**218.7**	**2.27**	**1,339,993**	**243.8**	**2.48**	**35,408**	**221.3**	**2.28**	**2,490,979**	**232.1**	**2.38**

* = Number less than 0.5.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Figure 5. Receipts of Gas, 1990

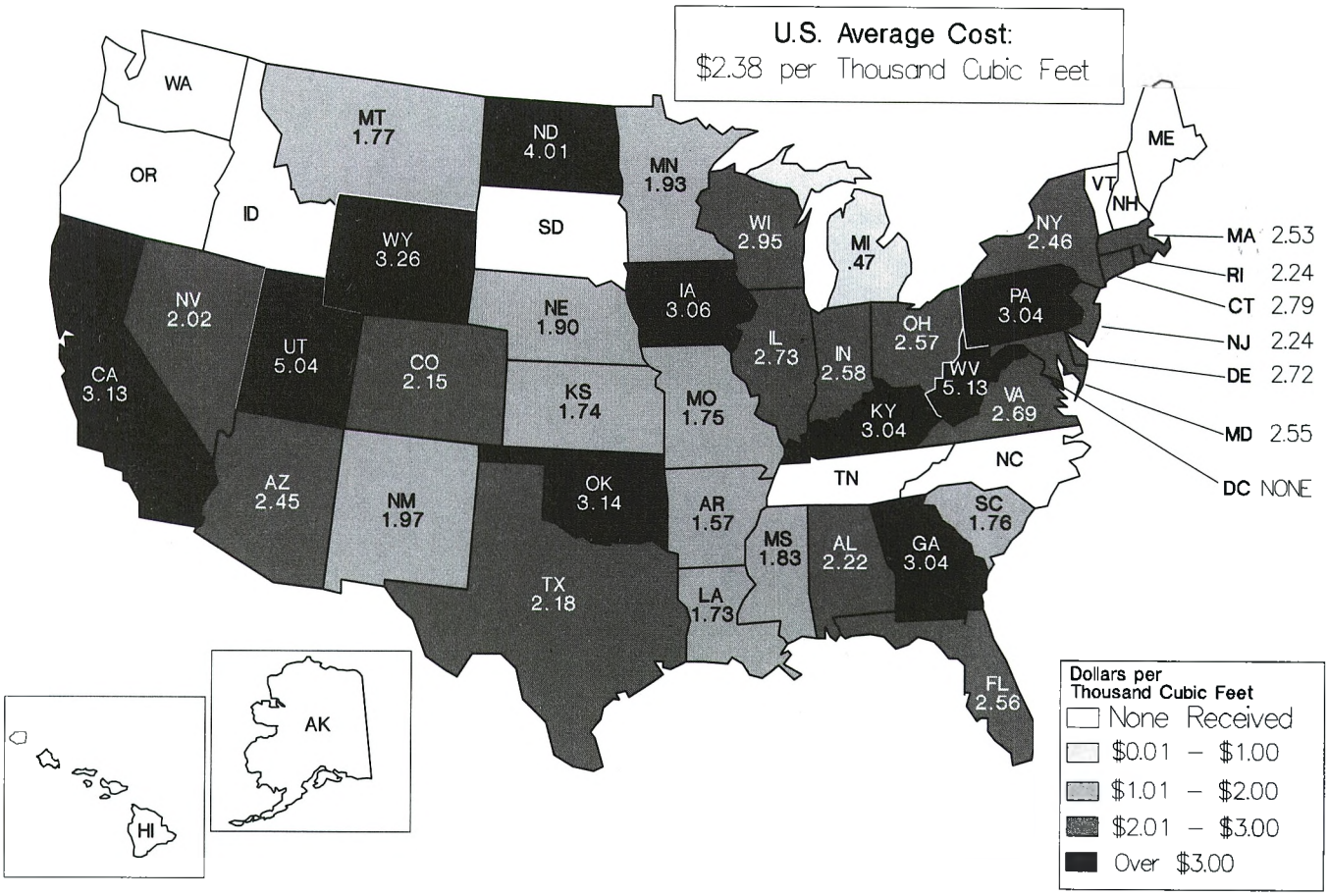


* Less than 0.5 thousand cubic feet

Notes: •Total may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulator Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Figure 6. Average Delivered Cost of Gas, 1990



Notes: •Total may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulator Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 21. Receipts of Gas by Type, Census Division, and State, 1990
(Thousand Mcf)

Census Division and State	Receipts by Type			
	Natural Gas	LNG and SNG[1]	Other[2]	Total
New England	**58,576**	-	-	**58,576**
Connecticut	4,863	-	-	4,863
Maine	-	-	-	-
Massachusetts	47,779	-	-	47,779
New Hampshire	-	-	-	-
Rhode Island	5,933	-	-	5,933
Vermont	-	-	-	-
Middle Atlantic	**253,456**	-	-	**253,456**
New Jersey	34,822	-	-	34,822
New York	218,442	-	-	218,442
Pennsylvania	192	-	-	192
East North Central	**18,949**	-	**17,442**	**36,391**
Illinois	7,041	-	-	7,041
Indiana	6,294	-	-	6,294
Michigan	3,177	-	17,442	20,619
Ohio	941	-	-	941
Wisconsin	1,496	-	-	1,496
West North Central	**31,325**	-	-	**31,325**
Iowa	2,211	-	-	2,211
Kansas	21,221	-	-	21,221
Minnesota	2,398	-	-	2,398
Missouri	2,378	-	-	2,378
Nebraska	3,117	-	-	3,117
North Dakota	*	-	-	*
South Dakota	-	-	-	-
South Atlantic	**185,171**	-	**647**	**185,818**
Delaware	3,633	-	579	4,213
District of Columbia	-	-	-	-
Florida	157,513	-	-	157,513
Georgia	1,757	-	-	1,757
Maryland	15,195	-	-	15,195
North Carolina	-	-	-	-
South Carolina	5,877	-	-	5,877
Virginia	1,027	-	67	1,094
West Virginia	169	-	-	169
East South Central	**55,419**	-	-	**55,419**
Alabama	2,581	-	-	2,581
Kentucky	236	-	-	236
Mississippi	52,602	-	-	52,602
Tennessee	-	-	-	-
West South Central	**1,375,523**	-	-	**1,375,523**
Arkansas	31,951	-	-	31,951
Louisiana	236,550	-	-	236,550
Oklahoma	141,150	-	-	141,150
Texas	965,872	-	-	965,872
Mountain	**61,017**	-	-	**61,017**
Arizona	11,302	-	-	11,302
Colorado	2,451	-	-	2,451
Idaho	-	-	-	-
Montana	286	-	-	286
Nevada	22,516	-	-	22,516
New Mexico	24,389	-	-	24,389
Utah	1	-	-	1
Wyoming	70	-	-	70
Pacific Contiguous	**433,454**	-	-	**433,454**
California	433,454	-	-	433,454
Oregon	-	-	-	-
Washington	-	-	-	-
Pacific Noncontiguous	-	-	-	-
Alaska	-	-	-	-
Hawaii	-	-	-	-
Total	**2,472,890**	-	**18,089**	**2,490,979**

[1] Liquified Natural Gas and Synthetic Natural Gas.
[2] Includes small quantities of Coke-Oven Gas, Refinery Gas, and Blast-Furnace gas.
* = Number less than 0.5

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 22. Monthly Statistics of Gas by Census Division, 1990

Census Division	January	February	March	April	May	June
New England						
Qnty Purchased: Firm 1,000 Mcf	-	-	-	-	-	-
Interruptible 1,000 Mcf[1]	20	521	1,177	5,564	7,773	4,768
Total 1,000 Mcf	20	521	1,177	5,564	7,773	4,768
Total Heating Val, Billion Btu	20.5	563.0	1,226.3	5,901.0	8,140.2	5,064.0
Avg. Cost, Cents per Million Btu	497.4	254.5	226.9	216.2	217.4	212.0
Total Est. Gas Bill, $1,000	102.1	1,433.1	2,782.4	12,755.7	17,699.5	10,734.1
Middle Atlantic						
Qnty Purchased: Firm 1,000 Mcf	3,629	4,160	7,626	6,456	7,560	3,269
Interruptible 1,000 Mcf[1]	1,296	3,168	9,366	12,796	11,953	20,147
Total 1,000 Mcf	4,925	7,328	16,992	19,252	19,513	23,416
Total Heating Val, Billion Btu	5,091.6	7,569.3	17,554.4	19,942.3	20,185.9	24,191.9
Avg. Cost, Cents per Million Btu	336.5	287.0	242.5	221.7	214.6	204.6
Total Est. Gas Bill, $1,000	17,131.6	21,721.0	42,562.2	44,212.4	43,312.7	49,491.3
East North Central						
Qnty Purchased: Firm 1,000 Mcf	465	463	573	721	899	366
Interruptible 1,000 Mcf[1]	2,289	1,693	2,382	1,488	2,166	2,913
Total 1,000 Mcf	2,754	2,156	2,955	2,209	3,064	3,280
Total Heating Val, Billion Btu	1,077.9	1,069.3	1,401.8	1,387.5	1,860.8	1,793.7
Avg. Cost, Cents per Million Btu	302.9	296.9	273.2	257.5	244.9	235.4
Total Est. Gas Bill, $1,000	3,265.2	3,175.2	3,829.2	3,573.1	4,557.8	4,222.8
West North Central						
Qnty Purchased: Firm 1,000 Mcf	88	78	89	66	38	142
Interruptible 1,000 Mcf[1]	861	810	1,369	1,406	2,696	3,671
Total 1,000 Mcf	949	888	1,459	1,472	2,734	3,813
Total Heating Val, Billion Btu	931.7	869.7	1,426.1	1,463.9	2,689.0	3,843.9
Avg. Cost, Cents per Million Btu	279.8	257.1	213.7	202.6	175.3	171.3
Total Est. Gas Bill, $1,000	2,607.0	2,236.5	3,047.9	2,965.3	4,713.6	6,586.2
South Atlantic						
Qnty Purchased: Firm 1,000 Mcf	382	428	9	4	266	924
Interruptible 1,000 Mcf[1]	9,893	10,219	14,360	15,534	16,100	13,200
Total 1,000 Mcf	10,275	10,647	14,369	15,537	16,366	14,124
Total Heating Val, Billion Btu	10,347.5	10,701.3	14,529.2	15,713.9	16,581.6	14,421.0
Avg. Cost, Cents per Million Btu	327.0	265.6	238.3	212.2	218.0	192.2
Total Est. Gas Bill, $1,000	33,833.6	28,418.3	34,627.7	33,346.1	36,155.3	27,713.6
East South Central						
Qnty Purchased: Firm 1,000 Mcf	657	617	640	421	513	967
Interruptible 1,000 Mcf[1]	578	664	1,533	2,400	2,587	2,845
Total 1,000 Mcf	1,236	1,281	2,174	2,822	3,099	3,813
Total Heating Val, Billion Btu	1,275.3	1,313.6	2,247.8	2,911.7	3,214.8	3,922.9
Avg. Cost, Cents per Million Btu	250.4	217.2	182.9	172.1	172.6	172.8
Total Est. Gas Bill, $1,000	3,193.9	2,853.0	4,110.9	5,010.2	5,549.8	6,779.3
West South Central						
Qnty Purchased: Firm 1,000 Mcf	65,798	53,386	65,155	65,759	90,937	114,393
Interruptible 1,000 Mcf[1]	10,711	11,578	26,157	29,037	39,914	53,916
Total 1,000 Mcf	76,509	64,965	91,313	94,796	130,850	168,309
Total Heating Val, Billion Btu	79,296.8	67,453.5	95,172.8	98,451.6	135,682.3	174,610.5
Avg. Cost, Cents per Million Btu	261.8	240.2	210.1	199.9	193.3	196.4
Total Est. Gas Bill, $1,000	207,609.3	162,040.2	199,977.9	196,844.6	262,278.0	342,989.1
Mountain						
Qnty Purchased: Firm 1,000 Mcf	1,432	1,668	696	1,096	1,153	1,953
Interruptible 1,000 Mcf[1]	2,247	1,120	3,725	4,100	5,479	5,970
Total 1,000 Mcf	3,678	2,788	4,420	5,196	6,631	7,923
Total Heating Val, Billion Btu	3,782.3	2,885.6	4,587.6	5,360.1	6,835.9	8,189.3
Avg. Cost, Cents per Million Btu	290.2	249.2	183.9	184.1	187.6	200.3
Total Est. Gas Bill, $1,000	10,975.9	7,192.3	8,438.6	9,869.5	12,822.6	16,400.5
Pacific Contiguous						
Qnty Purchased: Firm 1,000 Mcf	-	-	-	-	-	-
Interruptible 1,000 Mcf[1]	26,462	22,979	31,196	34,304	30,388	38,549
Total 1,000 Mcf	26,462	22,979	31,196	34,304	30,388	38,549
Total Heating Val, Billion Btu	27,410.8	23,824.2	32,206.3	35,341.2	31,345.3	39,992.0
Avg. Cost, Cents per Million Btu	368.4	352.8	292.4	296.7	301.2	282.0
Total Est. Gas Bill, $1,000	100,975.7	84,044.6	94,155.4	104,840.1	94,403.2	112,762.9
Pacific Noncontiguous						
Qnty Purchased: Firm 1,000 Mcf	-	-	-	-	-	-
Interruptible 1,000 Mcf[1]	-	-	-	-	-	-
Total 1,000 Mcf	-	-	-	-	-	-
Total Heating Val, Billion Btu	-	-	-	-	-	-
Avg. Cost, Cents per Million Btu	-	-	-	-	-	-
Total Est. Gas Bill, $1,000	-	-	-	-	-	-
Total						
Qnty Purchased: Firm 1,000 Mcf	72,450	60,801	74,788	74,523	101,365	122,014
Interruptible 1,000 Mcf[1]	54,356	52,751	91,266	106,630	119,055	145,980
Total 1,000 Mcf	126,806	113,552	166,055	181,153	220,420	267,995
Total Heating Val, Billion Btu	129,234.5	116,249.6	170,352.2	186,473.2	226,535.7	276,029.2
Avg. Cost, Cents per Million Btu	293.8	269.3	231.0	221.7	212.5	209.3
Total Est. Gas Bill, $1,000	379,694.4	313,114.2	393,532.3	413,416.9	481,492.3	577,679.9

[1] Includes Off-Peak Gas.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 22. Monthly Statistics of Gas by Census Division, 1990 (Continued)

Census Division	July	August	September	October	November	December	12-Month Total
New England							
Qnty Purchased: Firm 1,000 Mcf	-	-	-	1	-	73	74
Interruptible 1,000 Mcf[1]	8,038	9,261	7,567	7,908	3,886	2,018	58,502
Total 1,000 Mcf	8,038	9,261	7,567	7,908	3,886	2,092	58,576
Total Heating Val, Billion Btu	8,391.3	9,662.8	7,905.9	8,188.8	4,112.3	2,264.2	61,440.4
Avg. Cost, Cents per Million Btu	193.9	214.4	254.1	276.5	350.3	352.9	240.3
Total Est. Gas Bill, $1,000	16,272.4	20,713.7	20,090.4	22,643.3	14,404.3	7,990.5	147,621.6
Middle Atlantic							
Qnty Purchased: Firm 1,000 Mcf	3,380	3,474	3,535	3,478	1,676	597	48,840
Interruptible 1,000 Mcf[1]	25,306	30,195	26,868	27,276	20,776	15,468	204,616
Total 1,000 Mcf	28,686	33,669	30,403	30,754	22,452	16,065	253,456
Total Heating Val, Billion Btu	29,654.1	34,789.3	31,336.4	31,703.0	23,161.3	16,587.7	261,767.3
Avg. Cost, Cents per Million Btu	200.9	194.1	202.9	221.5	310.5	391.4	235.4
Total Est. Gas Bill, $1,000	59,575.4	67,525.8	63,586.5	70,206.3	71,906.1	64,928.5	616,159.9
East North Central							
Qnty Purchased: Firm 1,000 Mcf	662	1,457	728	1,098	586	557	8,575
Interruptible 1,000 Mcf[1]	2,305	2,389	3,067	2,588	2,049	2,489	27,816
Total 1,000 Mcf	2,967	3,846	3,795	3,685	2,635	3,046	36,391
Total Heating Val, Billion Btu	1,779.0	2,683.7	2,120.7	2,252.5	1,598.5	1,531.8	20,557.3
Avg. Cost, Cents per Million Btu	240.9	229.6	214.6	244.2	275.6	290.8	252.9
Total Est. Gas Bill, $1,000	4,286.3	6,160.6	4,552.0	5,500.8	4,404.8	4,454.0	51,981.9
West North Central							
Qnty Purchased: Firm 1,000 Mcf	202	266	225	94	68	85	1,442
Interruptible 1,000 Mcf[1]	4,279	4,290	4,710	3,055	1,393	1,341	29,883
Total 1,000 Mcf	4,482	4,556	4,935	3,150	1,461	1,427	31,325
Total Heating Val, Billion Btu	4,472.3	4,590.5	4,857.1	3,063.5	1,412.0	1,387.1	31,006.8
Avg. Cost, Cents per Million Btu	169.4	172.7	172.7	181.5	237.6	248.1	188.4
Total Est. Gas Bill, $1,000	7,575.7	7,928.2	8,390.1	5,558.9	3,355.3	3,440.9	58,405.6
South Atlantic							
Qnty Purchased: Firm 1,000 Mcf	530	11,649	13,057	9,587	9,510	7,711	54,055
Interruptible 1,000 Mcf[1]	19,357	9,983	6,257	8,058	3,639	5,165	131,763
Total 1,000 Mcf	19,886	21,631	19,313	17,645	13,149	12,876	185,818
Total Heating Val, Billion Btu	20,219.5	22,095.9	19,646.3	18,050.5	13,339.2	12,991.8	188,637.5
Avg. Cost, Cents per Million Btu	216.1	245.7	260.4	266.9	309.3	311.0	250.8
Total Est. Gas Bill, $1,000	43,698.0	54,279.5	51,163.8	48,177.8	41,254.1	40,403.3	473,071.0
East South Central							
Qnty Purchased: Firm 1,000 Mcf	1,568	933	666	926	633	873	9,415
Interruptible 1,000 Mcf[1]	8,386	8,514	5,969	6,310	4,579	1,638	46,003
Total 1,000 Mcf	9,954	9,447	6,635	7,236	5,212	2,511	55,419
Total Heating Val, Billion Btu	10,334.6	9,770.4	6,862.1	7,515.5	5,410.8	2,599.2	57,378.7
Avg. Cost, Cents per Million Btu	163.2	156.7	158.2	181.7	223.4	242.8	178.8
Total Est. Gas Bill, $1,000	16,863.0	15,306.6	10,852.6	13,655.2	12,088.1	6,312.1	102,574.8
West South Central							
Qnty Purchased: Firm 1,000 Mcf	103,914	111,394	107,074	76,434	58,765	65,225	978,234
Interruptible 1,000 Mcf[1]	52,576	49,769	36,309	35,032	26,524	25,766	397,290
Total 1,000 Mcf	156,490	161,163	143,383	111,466	85,289	90,992	1,375,523
Total Heating Val, Billion Btu	162,870.0	167,644.6	148,461.2	115,296.4	88,065.6	93,964.8	1,426,969.9
Avg. Cost, Cents per Million Btu	201.5	202.1	188.9	213.6	237.0	245.5	210.6
Total Est. Gas Bill, $1,000	328,219.6	338,747.2	280,491.4	246,296.7	208,697.5	230,687.1	3,004,878.6
Mountain							
Qnty Purchased: Firm 1,000 Mcf	1,817	1,110	1,789	991	480	760	14,942
Interruptible 1,000 Mcf[1]	6,464	5,617	4,305	3,620	1,872	1,557	46,074
Total 1,000 Mcf	8,280	6,728	6,094	4,611	2,351	2,316	61,017
Total Heating Val, Billion Btu	8,596.2	6,934.4	6,256.5	4,741.6	2,432.2	2,362.4	62,964.2
Avg. Cost, Cents per Million Btu	199.8	188.7	181.6	191.1	217.7	234.6	202.0
Total Est. Gas Bill, $1,000	17,171.0	13,083.5	11,361.4	9,062.2	5,296.1	5,541.2	127,214.7
Pacific Contiguous							
Qnty Purchased: Firm 1,000 Mcf	-	-	-	-	-	-	-
Interruptible 1,000 Mcf[1]	55,889	54,128	46,877	39,400	28,346	24,937	433,454
Total 1,000 Mcf	55,889	54,128	46,877	39,400	28,346	24,937	433,454
Total Heating Val, Billion Btu	57,174.6	56,132.3	48,487.7	40,674.7	29,200.2	25,791.6	447,581.1
Avg. Cost, Cents per Million Btu	275.7	275.9	290.2	312.4	333.6	340.4	303.1
Total Est. Gas Bill, $1,000	157,619.4	154,893.2	140,734.5	127,082.5	97,415.8	87,798.2	1,356,725.4
Pacific Noncontiguous							
Qnty Purchased: Firm 1,000 Mcf	-	-	-	-	-	-	-
Interruptible 1,000 Mcf[1]	-	-	-	-	-	-	-
Total 1,000 Mcf	-	-	-	-	-	-	-
Total Heating Val, Billion Btu	-	-	-	-	-	-	-
Avg. Cost, Cents per Million Btu	-	-	-	-	-	-	-
Total Est. Gas Bill, $1,000	-	-	-	-	-	-	-
Total							
Qnty Purchased: Firm 1,000 Mcf	112,073	130,282	127,073	92,608	71,718	75,882	1,115,577
Interruptible 1,000 Mcf[1]	182,598	174,146	141,929	133,247	93,063	80,380	1,375,401
Total 1,000 Mcf	294,671	304,429	269,002	225,855	164,781	156,262	2,490,979
Total Heating Val, Billion Btu	303,491.7	314,303.8	275,933.9	231,486.6	168,732.2	159,480.7	2,558,303.1
Avg. Cost, Cents per Million Btu	214.6	215.9	214.3	236.8	271.9	283.1	232.1
Total Est. Gas Bill, $1,000	651,280.9	678,638.2	591,222.8	548,183.7	458,822.1	451,555.8	5,938,633.4

[1] Includes Off-Peak Gas.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 23. Primary Energy Purchase Data by Census Division and State, 1990

Census Division and State	Total Btu (billions)				% of Total Btu			Avg. Delivered Cost (cents per 10^6 Btu)		
	Total	Coal	Petroleum	Gas	Coal	Petroleum	Gas	Coal	Petroleum	Gas
New England	**530,383**	**166,699**	**302,244**	**61,440**	**31.4**	**57.0**	**11.6**	**180.3**	**285.5**	**240.3**
Connecticut	123,292	25,248	93,019	5,025	20.5	75.4	4.1	212.9	301.5	270.2
Maine	23,879	-	23,879	-	-	100.0	-	-	278.5	-
Massachusetts	313,068	107,641	155,144	50,284	34.4	49.6	16.1	173.4	286.4	240.1
New Hampshire	61,632	33,810	27,822	-	54.9	45.1	-	178.1	226.9	-
Rhode Island	8,512	-	2,380	6,132	-	28.0	72.0	-	358.9	216.9
Vermont	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	**[1] 2,170,461**	**1,444,354**	**458,772**	**261,767**	**[1] 66.5**	**[1] 21.1**	**[1] 12.1**	**155.4**	**359.2**	**235.4**
New Jersey	145,527	76,151	33,427	35,949	52.3	23.0	24.7	180.1	359.6	217.2
New York	[1] 877,114	271,511	379,870	225,620	[1] 31.0	[1] 43.3	[1] 25.7	161.3	360.3	238.2
Pennsylvania	[1] 1,147,820	1,096,692	45,475	198	[1] 95.5	[1] 4.0	[1] .0	152.2	349.5	294.9
East North Central	**[1] 3,891,999**	**3,836,767**	**29,108**	**20,557**	**[1] 98.6**	**[1] .7**	**[1] .5**	**150.9**	**387.2**	**252.9**
Illinois	591,336	570,869	13,280	7,187	96.5	2.2	1.2	175.1	394.7	267.0
Indiana	[1] 1,053,113	1,039,168	2,073	6,306	[1] 98.7	[1] .2	[1] .6	136.2	512.2	258.0
Michigan	675,406	660,921	9,876	4,610	97.9	1.5	.7	159.9	320.2	210.6
Ohio	1,226,764	1,222,330	3,485	949	99.6	.3	.1	151.5	458.8	254.6
Wisconsin	345,380	343,480	395	1,506	99.4	.1	.4	135.8	526.1	292.7
West North Central	**[1] 1,835,213**	**1,796,768**	**2,364**	**31,007**	**[1] 97.9**	**[1] .1**	**[1] 1.7**	**113.0**	**498.4**	**188.4**
Iowa	[1] 280,833	278,108	499	2,225	[1] 99.0	[1] .2	[1] .8	111.8	518.1	304.5
Kansas	303,499	282,262	228	21,009	93.0	.1	6.9	124.2	540.4	175.8
Minnesota	[1] 297,850	291,044	148	2,405	[1] 97.7	[1] .0	[1] .8	125.2	533.3	192.1
Missouri	[1] 510,690	506,488	962	2,421	[1] 99.2	[1] .2	[1] .5	134.8	434.6	171.5
Nebraska	139,053	135,941	165	2,947	97.8	.1	2.1	75.2	703.4	200.8
North Dakota	277,910	277,590	319	*	99.9	.1	*	68.6	499.1	386.2
South Dakota	25,378	25,334	43	-	99.8	.2	-	114.6	565.3	-
South Atlantic	**3,889,243**	**3,345,220**	**355,386**	**188,638**	**86.0**	**9.1**	**4.9**	**168.9**	**311.4**	**250.8**
Delaware	74,355	57,134	12,779	4,442	76.8	17.2	6.0	181.5	278.2	257.7
District of Columbia	4,638	-	4,638	-	-	100.0	-	-	363.3	-
Florida	1,029,874	600,602	270,030	159,242	58.3	26.2	15.5	184.9	301.9	253.3
Georgia	666,922	663,338	1,785	1,800	99.5	.3	.3	178.6	485.5	296.8
Maryland	315,454	254,730	44,891	15,832	80.8	14.2	5.0	164.7	315.7	244.7
North Carolina	493,307	491,877	1,431	-	99.7	.3	-	178.0	512.1	-
South Carolina	244,280	237,607	660	6,013	97.3	.3	2.5	172.0	622.1	171.8
Virginia	234,073	215,836	17,098	1,139	92.2	7.3	.5	154.5	383.5	258.2
West Virginia	826,340	824,097	2,074	169	99.7	.3	*	147.2	572.4	513.3
East South Central	**[1] 2,029,043**	**1,961,373**	**10,206**	**57,379**	**[1] 96.7**	**[1] .5**	**[1] 2.8**	**143.3**	**322.0**	**178.8**
Alabama	[1] 540,644	537,181	719	2,659	[1] 99.4	[1] .1	[1] .5	184.3	556.9	215.6
Kentucky	813,915	812,566	1,108	240	99.8	.1	*	119.3	575.0	297.5
Mississippi	160,558	98,361	7,718	54,480	61.3	4.8	33.9	165.4	243.3	176.4
Tennessee	513,926	513,264	661	-	99.9	.1	-	134.2	560.8	-
West South Central	**3,296,131**	**1,858,313**	**10,847**	**1,426,970**	**56.4**	**.3**	**43.3**	**148.8**	**468.4**	**210.6**
Arkansas	224,564	191,203	845	32,516	85.1	.4	14.5	161.1	470.4	154.0
Louisiana	439,529	189,983	2,348	247,198	43.2	.5	56.2	169.5	371.5	165.9
Oklahoma	405,642	257,407	756	147,479	63.5	.2	36.4	140.4	320.3	300.8
Texas	2,226,395	1,219,720	6,898	999,777	54.8	.3	44.9	145.3	517.3	210.2
Mountain	**2,024,594**	**1,956,713**	**4,916**	**62,964**	**96.6**	**.2**	**3.1**	**113.3**	**424.9**	**202.0**
Arizona	335,890	322,527	1,678	11,685	96.0	.5	3.5	143.0	446.0	236.9
Colorado	303,598	300,960	215	2,423	99.1	.1	.8	106.1	534.5	217.3
Idaho	-	-	-	-	-	-	-	-	-	-
Montana	163,644	163,058	237	349	99.6	.1	.2	67.0	543.2	145.2
Nevada	191,300	166,334	1,753	23,213	86.9	.9	12.1	149.1	314.3	195.6
New Mexico	303,450	277,907	321	25,221	91.6	.1	8.3	131.8	524.5	190.8
Utah	321,964	321,827	135	1	100.0	*	*	116.7	541.5	503.5
Wyoming	404,748	404,099	577	72	99.8	.1	*	83.6	526.8	314.9
Pacific Contiguous	**622,361**	**98,223**	**76,556**	**447,581**	**15.8**	**12.3**	**71.9**	**149.4**	**435.8**	**303.1**
California	523,909	-	76,328	447,581	-	14.6	85.4	-	435.8	303.1
Oregon	16,235	16,157	78	-	99.5	.5	-	107.9	347.3	-
Washington	82,217	82,067	150	-	99.8	.2	-	157.6	511.0	-
Pacific Noncontiguous	**66,034**	**-**	**66,034**	**-**	**-**	**100.0**	**-**	**-**	**415.2**	**-**
Alaska	-	-	-	-	-	-	-	-	-	-
Hawaii	66,034	-	66,034	-	-	100.0	-	-	415.2	-
Total	**[1] 20,355,460**	**16,464,431**	**1,316,433**	**2,558,303**	**[1] 80.9**	**[1] 6.5**	**[1] 12.6**	**145.5**	**338.4**	**232.1**

[1] Also includes Petroleum Coke, Refuse, Wood Waste, and Coke Breeze.

* = Number less than 0.5

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Origin and Destination of Coal

This chapter contains information on the origin and destination of coal to steam-electric plants by Bureau of Mines (BOM) District and State (Table 33). The States that are part of each district and the amount of coal that originated from those States are listed. In addition, under each BOM State of origin, the destination and amount of coal delivered are shown by State. Note that a State of origin can be located in more than one BOM District (West Virginia, for example, is in Districts 1, 3, 6, 7, and 8). For a complete listing of the BOM Districts, see Table B1, Appendix B. This chapter also contains data on the destination and origin of coal by Census division and State, State of origin, and State of destination (Table 34). Information regarding the share of the total coal shipments that was surface-mined (as opposed to underground) and the share of receipts that was purchased in the spot market (as opposed to under contract) is also contained in Table 34. Data on the origin and destination of coal deliveries to electric utilities by State are provided in Table 35.

In addition, this chapter contains data on the origin of coal delivered to each steam-electric plant that reports its coal receipts (Table 36). Information at the electric utility level includes the county of origin for the coal and the corresponding quantity, quality, and delivered cost of that coal by plant. It is not uncommon for a utility to report a tipple (an apparatus at a central facility used in loading coal for transportation by rail or truck) as the source of the coal and to list the county in which the tipple is located in as the county of origin. In some cases the coal delivered to the tipple comes from various surrounding counties and the data have not been adjusted to compensate for this. Note that when the utility could not determine the county of origin for the delivered coal, the State and county of origin are designated as "Unknown."

Domestic Coal

In 1990, 785 million short tons of coal, which originated in 24 coal-producing States (Table 25), were delivered to coal-fired plants located in 43 States. Wyoming, Kentucky, and West Virginia were the States of origin for 50 percent (394 million short tons) of all coal delivered to electric utilities in 1990. Coal receipts from Wyoming totaled 176 million short tons and were delivered to power plants located in 23 States. Receipts of Wyoming coal were highest in Texas, where 33 million short tons were delivered in 1990 (Table 34). Coal received from Kentucky amounted to 129 million short tons and was delivered primarily to coal-fired plants located east of the Mississippi River. Coal from Kentucky was delivered to electric plants located in 26 States (28 million short tons were delivered to coal-fired plants located within Kentucky). A total of 89 million short tons of coal from West Virginia was delivered to electric plants in 23 States (including 29 million short tons to in-State coal-fired plants).

A high percentage of the coal mined for the steam-electric utility market in Illinois, Montana, and Virginia (in addition to Wyoming, Kentucky, and West Virgina) is shipped out of State. In 1990, coal receipts from Illinois amounted to 54 million short tons--39 million short tons of which were shipped out of State, primarily to coal-fired plants located in Indiana, Missouri, Florida, and Georgia (Table 33). Receipts of coal from Montana totaled 36 million short tons with 26 million short tons being shipped to Michigan, Minnesota, Illinois, Wisconsin, and Indiana. Coal from Virginia totaled 17 million short tons (14 million short tons were delivered to out-of-State plants, primarily in Florida, Georgia, Massachusetts, New Jersey, North Carolina, South Carolina, and Tennessee).

One of the longest distances domestic coal was hauled during 1990 was approximately 1,500 miles, when coal mined in Wyoming was delivered to electric utilities in Georgia. Although transporting coal 1,000 miles or more from the mine to the electric plant is not uncommon, 43 percent of all coal was delivered to electric utilities within the State where the coal was mined. For example, of the 30 million short tons of coal shipments from Ohio to electric utilities in 1990, 84 percent was delivered to coal-fired plants located in Ohio. Electric utilities received 16 million short tons of coal from Alabama in 1990, of which 99 percent was delivered to in-State coal-fired plants. Of the coal from Indiana that was purchased by electric utilities in 1990, 69 percent (21 million short tons) was received by coal-fired plants located in Indiana. Coal from Indiana that was shipped to out-of-State electric utilities went primarily to Kentucky, Illinois, Iowa, Tennessee, and Wisconsin. All coal from Iowa, Louisiana, Missouri, Texas, and Washington destined for delivery to electric utilities was delivered to coal-fired plants located in the State where it was mined.

Domestic coal is obtained from three major coal-producing regions in the United States -- the Appalachian, Interior, and Western Regions (Table 24).

Appalachian Region Coal is mined in Pennsylvania, Maryland, Virginia, West Virginia, eastern Kentucky, Tennessee, Alabama, and Ohio. With the exception of coal from Ohio, this coal is bituminous in rank and of low-to-medium sulfur content with a heat content that averages more than 12,000 Btu per pound. Appalachian coal is transported primarily to electric plants throughout the eastern United States by train, barge, and truck.

Interior Region Coal is mined primarily in Illinois, Indiana, western Kentucky, and Missouri. This region produces bituminous coal containing a high percentage of sulfur with approximately 11,000 Btu per pound. Most Interior Region coal is delivered to electric plants in the central and southeastern United States.

Western Region Coal is mined in Montana, Wyoming, Colorado, Utah, North Dakota, Arizona, and New Mexico. It is generally delivered to electric plants throughout the western and central United States. Most of the coal in this region is subbituminous coal that is low in sulfur content (less than 0.5 percent) and contains approximately 9,000 Btu per pound. The Powder River Basin (located in northeast Wyoming and southeast Montana and part of the Western Region) was the origin for 194 million short tons of coal delivered to electric utilities in 1990. Coal from this basin is delivered by unit train to electric plants as far east as Indiana and Georgia.

Appalachian Region Coal Deliveries. The amount of coal from the Appalachian Region delivered to electric utilities in 1990 was 296 million short tons (Table 30), an increase of 13 million short tons from 1989. The average Btu and sulfur content of coal from this region increased slightly from the previous year while the average delivered cost increased by $0.62 to $40.24 per short ton. In 1990, the Georgia Power Company and the Pennsylvania Electric Company purchased the largest amounts of Appalachian Region coal (18 million short tons, each).

Interior Region Coal Deliveries. In 1990, coal deliveries to electric utilities from the Interior Region totaled 133 million short tons (Table 31), an increase of 8 million short tons from 1989. The sulfur content of coal from this region averaged 2.86 percent. The average delivered cost per short ton increased by $0.29 to $31.53. As has been the case for the past several years, the Tennessee Valley Authority purchased the largest amount of Interior Region coal (22 million short tons) in 1990.

Western Region Coal Deliveries. Receipts of coal to electric utilities from the Western Region in 1990 were 281 million short tons (Table 32), an increase of 12 million short tons from 1989. The average delivered cost of Western Region coal was $24.37 per short ton, a decrease of $0.24 per short ton from 1989. On a national basis, the delivered cost of Western Region coal is usually lower than the delivered cost of Appalachian or Interior Region coal. This is due to the relatively low cost of mining western coal (usually large surface mines with thick seams of easily accessible coal) and, to some extent, the low transportation costs resulting from the proximity of many of the western electric plants to the coal mines.

PacifiCorp purchased the largest amount of Western Region coal in 1990 (29 million short tons). Several electric utilities in the central and southern United States purchased Western Region coal in 1990. They include the Detroit Edison Company (12 million short tons); Northern States Power Company (12 million short tons); Indiana & Michigan Power Company (10 million short tons); and Arkansas Power & Light Company, Houston Lighting & Power Company, and Kansas Power and Light Company (9 million short tons, each). Transportation costs of Western Region coal to these and other electric utilities often comprise well over half the delivered cost of this coal.

Table 24. Receipts of Coal by Coal-Producing Region, 1986-1990
(Thousand Short Tons)

Region	1990	1989	1988	1987	1986
Appalachian Region	295,770	283,009	271,232	286,027	269,805
Interior Region	132,726	124,813	122,438	132,158	128,196
Western Region	281,334	269,258	259,684	235,315	223,071
Total	**709,829**	**677,081**	**653,354**	**653,500**	**621,072**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • This table excludes all lignite receipts.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Lignite

In 1990, 75 million short tons of lignite were delivered to electric utilities at an average delivered cost of $12.65 per short ton (Table 28). Most (96 percent) of this lignite originated in Texas and North Dakota. Louisiana accounted for just over 3 million short tons of lignite. Because lignite tends to disintegrate when exposed to weather, most lignite-burning plants are located close to the mine. Lignite, compared to other ranks of coal, has a low-Btu, high-moisture content and transporting it long distances is generally uneconomical.

The Texas Utilities Electric Company received the largest amount of lignite in 1990, 31 million short tons. The lignite was burned at the company's four coal-fired plants (Big Brown, Sandow Unit 4, Martin Lake, and Monticello). The Houston Lighting & Power Company received more than 7 million short tons of lignite at its Limestone Plant and the Basin Electric Power Cooperative (North Dakota) received a total of 7 million short tons of lignite at its Antelope Valley and Leland Olds Plants.

Imported Coal

During 1990, the level of coal imported to U.S. electric utilities remained minimal. A total of 1.4 million short tons of coal was imported from Colombia, Venezuela, and Canada (Table 29). The Jacksonville Electric Authority in Florida received the largest amount of imported coal (1 million short tons) from Colombia and Venezuela. The New England Power Company received 175 thousand short tons of coal from Colombia and Venezuela. The Public Service Company of New Hampshire received 144 thousand short tons of coal from Canada and Venezuela. Coal from Colombia (South America) accounted for 81 percent (1.1 million short tons) of all imports. The amount of coal imported from Venezuela was 220 thousand short tons and Canadian imports totaled 34 thousand short tons.

Table 25. Receipts of Coal by State of Origin, 1990

State of Origin	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Alabama	16,383	12,190	1.34	12.39	203.5	49.61
Arizona	11,447	11,015	.50	9.17	107.9	23.76
Colorado	15,382	10,694	.41	8.67	143.1	30.60
Illinois	54,232	11,179	2.71	9.54	158.2	35.37
Indiana	30,899	11,104	2.55	9.26	127.8	28.38
Iowa	66	10,128	3.33	11.76	163.7	33.17
Kansas	650	12,074	3.14	12.02	123.0	29.70
Kentucky	128,818	12,126	1.80	10.19	154.3	37.43
Louisiana	3,186	6,881	.55	12.50	133.5	18.37
Maryland	3,004	12,612	1.61	12.62	152.9	38.57
Missouri	2,343	10,570	4.18	10.05	150.8	31.87
Montana	35,627	9,012	.53	7.09	136.8	24.66
New Mexico	22,644	9,349	.70	19.47	150.4	28.13
North Dakota	22,983	6,586	.82	9.19	72.4	9.54
Ohio	30,103	11,717	3.34	11.28	149.3	34.98
Oklahoma	917	12,417	1.77	9.63	139.2	34.57
Pennsylvania	50,488	12,366	1.82	12.75	154.8	38.28
Tennessee	4,618	12,623	1.44	9.87	144.3	36.42
Texas	49,086	6,332	1.00	16.39	108.4	13.73
Utah	15,237	11,592	.50	10.17	118.5	27.46
Virginia	17,366	12,951	1.14	9.42	168.7	43.70
Washington	4,696	8,104	.73	15.33	160.0	25.93
West Virginia	88,608	12,524	1.64	10.68	157.7	39.50
Wyoming	176,478	8,669	.38	5.61	132.7	23.01
Subtotal	**785,261**	**10,462**	**1.35**	**9.86**	**145.4**	**30.43**
Imported	1,366	12,155	.72	6.57	175.2	42.58
Total	**786,627**	**10,465**	**1.35**	**9.85**	**145.5**	**30.45**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Imported includes coal from Canada, Colombia S.A., and Venezuela.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 26. Receipts and Average Delivered Cost of Coal by Sulfur Content and State of Origin, 1990

State of Origin	1.0% or Less			More than 1.0% up to 2.0%			More than 2.0% up to 3.0%			More than 3.0%		
	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)	Quantity (thousand short tons)	(cents per million Btu)	(dollars per short ton)
Alabama	7,861	227.1	55.19	3,525	182.2	44.51	4,994	181.6	44.44	3	109.0	26.53
Arizona	11,447	107.9	23.76	-	-	-	-	-	-	-	-	-
Colorado	15,242	142.3	30.44	140	225.5	48.53	-	-	-	-	-	-
Illinois	809	164.3	37.65	9,715	161.3	36.77	21,895	162.7	37.04	21,813	151.8	32.98
Indiana	907	162.9	36.00	4,186	124.8	27.96	18,124	130.2	28.84	7,681	119.5	26.61
Iowa	-	-	-	-	-	-	17	164.1	33.07	49	163.6	33.20
Kansas	-	-	-	-	-	-	111	124.3	30.10	539	122.7	29.61
Kentucky	41,244	171.3	42.96	45,038	163.7	40.24	21,521	134.4	31.82	21,014	116.7	26.29
Louisiana	3,186	133.5	18.37	-	-	-	-	-	-	-	-	-
Maryland	66	154.9	37.69	2,899	153.2	38.71	39	127.0	29.49	-	-	-
Missouri	-	-	-	-	-	-	23	136.3	30.48	2,321	150.9	31.89
Montana	35,616	136.8	24.66	10	175.0	31.52	-	-	-	-	-	-
New Mexico	22,644	150.4	28.13	-	-	-	-	-	-	-	-	-
North Dakota	19,346	74.7	9.77	3,637	60.6	8.28	-	-	-	-	-	-
Ohio	65	144.6	32.47	1,336	141.9	34.40	7,951	145.8	34.55	20,751	151.2	35.19
Oklahoma	257	153.4	36.82	446	144.6	36.23	-	-	-	213	111.9	28.39
Pennsylvania	3,218	157.2	36.17	30,039	155.5	38.65	16,671	153.3	38.15	560	145.3	34.61
Tennessee	1,706	158.5	40.13	1,950	137.0	34.61	962	133.6	33.53	-	-	-
Texas	24,328	108.7	13.84	24,240	108.7	13.72	518	82.8	9.26	-	-	-
Utah	15,237	118.5	27.46	-	-	-	-	-	-	-	-	-
Virginia	6,870	174.7	45.31	10,466	164.8	42.66	30	155.4	38.81	-	-	-
Washington	4,696	160.0	25.93	-	-	-	-	-	-	-	-	-
West Virginia	40,789	168.0	41.81	20,101	156.0	39.13	14,597	146.4	37.54	13,120	141.2	35.07
Wyoming	175,880	132.8	23.01	597	118.0	22.88	-	-	-	-	-	-
Subtotal	431,415	143.3	27.60	158,327	153.2	34.50	107,454	147.1	34.83	88,065	138.6	31.61
Imported	**1,333**	**175.0**	**42.43**	**34**	**181.0**	**48.72**	-	-	-	-	-	-
Total	432,747	143.4	27.65	158,361	153.2	34.51	107,454	147.1	34.83	88,065	138.6	31.61

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Imported includes coal from Canada, Colombia S.A., and Venezuela.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Railroads are an important mode of transportation for delivering coal to electric utilities.

Table 27. Receipts of Coal by Bureau of Mines District, 1990

Bureau of Mines District	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
District 1	40,693	12,313	1.81	13.83	157.6	38.80
District 2	16,270	12,796	1.83	9.02	150.0	38.40
District 3	30,272	12,801	2.10	9.96	151.1	38.69
District 4	30,103	11,717	3.34	11.28	149.3	34.98
District 6	9,749	12,137	3.91	11.47	144.3	35.01
District 7	821	13,043	.89	8.62	178.3	46.52
District 8	149,915	12,487	1.02	10.01	166.8	41.65
District 9	43,619	11,540	3.21	11.11	125.3	28.93
District 10	54,232	11,179	2.71	9.54	158.2	35.37
District 11	30,899	11,104	2.55	9.26	127.8	28.38
District 12	66	10,128	3.33	11.76	163.7	33.17
District 13	17,192	12,196	1.32	12.39	199.7	48.72
District 14	148	12,831	1.32	9.91	144.9	37.18
District 15	56,034	6,690	1.14	15.76	113.8	15.22
District 17	15,709	10,730	.41	8.76	143.6	30.81
District 18	33,764	9,884	.63	16.04	134.2	26.52
District 19	176,478	8,669	.38	5.61	132.7	23.01
District 20	15,237	11,592	.50	10.17	118.5	27.46
District 21	22,983	6,586	.82	9.19	72.4	9.54
District 22	35,627	9,012	.53	7.09	136.8	24.66
District 23	4,696	8,104	.73	15.33	160.0	25.93
District 24	753	8,070	.71	32.70	97.7	15.77
Subtotal	786,627	10,465	1.35	9.85	145.5	30.45
Imported	**1,366**	**12,155**	**.72**	**6.57**	**175.2**	**42.58**
Total	786,627	10,465	1.35	9.85	145.5	30.45

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Imported includes coal from Canada, Colombia S.A., and Venezuela.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 28. Receipts of Lignite, 1990

Company	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Basin Electric Power Coop	6,798	6,646	0.64	9.11	73.5	9.77
Central Louisiana Elec Co Inc	3,186	6,881	.55	12.50	133.5	18.37
Coop Power Assn	6,776	6,360	.77	10.60	68.3	8.69
Houston Lighting & Power Co	7,392	6,584	.92	16.43	148.4	19.55
Lower Colorado River Authority	208	6,689	1.37	11.14	155.5	20.80
Minnkota Power Coop Inc	4,100	6,850	1.01	7.95	47.0	6.44
Montana-Dakota Utilities Co	2,332	6,913	1.00	8.33	81.3	11.24
Otter Tail Power Co	2,068	6,082	.90	8.46	114.6	13.94
San Miguel Electric Coop Inc	3,015	5,521	1.90	23.26	87.2	9.63
Southwestern Electric Power Co	3,039	6,789	1.66	10.70	123.1	16.72
Texas Municipal Power Agency	3,623	4,740	1.40	26.34	150.5	14.26
Texas New Mexico Power Co	565	6,821	1.02	15.21	134.8	18.39
Texas Utilities Electric Co	31,244	6,480	.81	15.17	94.7	12.27
United Power Assn	1,085	6,881	.94	8.64	100.7	13.86
Total	**75,432**	**6,433**	**.92**	**14.01**	**98.3**	**12.65**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • This table includes all lignite mined in the continental United States and reported on FERC Form 423.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 29. Quantity, Quality, and Average Delivered Cost of Imported Coal, 1986-1990

Company Country of Origin	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
1990	**1,366**	**12,155**	**0.72**	**6.6**	**175.2**	**42.58**
Jacksonville Electric Auth	**1,048**	**11,951**	**.74**	**6.77**	**171.5**	**41.00**
Colombia	1,008	11,938	.74	6.58	171.6	40.96
Venezuela	40	12,288	.77	11.50	170.7	41.95
New England Power Co	**175**	**12,529**	**.66**	**6.62**	**186.4**	**46.72**
Colombia	105	12,366	.69	6.11	190.2	47.04
Venezuela	70	12,773	.61	7.39	181.0	46.23
Public Service Co of NH	**144**	**13,188**	**.68**	**5.07**	**186.1**	**49.08**
Canada	34	13,459	1.30	5.90	181.0	48.72
Venezuela	110	13,105	.49	4.82	187.7	49.19
1989	**1,215**	**12,165**	**.69**	**6.79**	**177.6**	**43.20**
Baltimore Gas & Electric Co	**247**	**12,267**	**.58**	**5.62**	**194.6**	**47.75**
Colombia	247	12,267	.58	5.62	194.6	47.75
Jacksonville Electric Auth	**841**	**12,043**	**.73**	**7.21**	**171.8**	**41.38**
Colombia	803	11,978	.74	7.36	173.4	41.54
Venezuela	37	13,461	.48	4.00	141.0	37.96
New England Power Co	**63**	**12,385**	**.62**	**6.59**	**183.2**	**45.38**
Colombia	63	12,385	.62	6.59	183.2	45.38
Public Service Electric&Gas Co	**41**	**13,139**	**.53**	**4.46**	**184.4**	**48.47**
Colombia	12	13,116	.57	4.20	175.8	46.12
Venezuela	29	13,149	.51	4.57	188.2	49.49
Savannah Electric & Power Co	**23**	**13,189**	**.71**	**8.47**	**172.5**	**45.52**
Colombia	23	13,189	.71	8.47	172.5	45.52
1988	**970**	**12,235**	**.73**	**6.13**	**145.0**	**35.48**
Florida Power Corp	**231**	**13,154**	**.52**	**4.53**	**140.3**	**36.90**
Australia	38	12,415	.66	9.31	154.4	38.34
Venezuela	193	13,302	.49	3.57	137.6	36.62
Jacksonville Electric Auth	**687**	**11,838**	**.70**	**6.72**	**144.4**	**34.19**
Colombia	687	11,838	.70	6.72	144.4	34.19
Public Service Co of NH	**52**	**13,403**	**1.99**	**5.34**	**172.7**	**46.29**
Canada	52	13,403	1.99	5.34	172.7	46.29
1987	**765**	**12,127**	**.58**	**7.26**	**169.9**	**41.20**
Central Power & Light Co	**94**	**12,313**	**.54**	**9.71**	**164.5**	**40.52**
Australia	57	12,549	.54	11.80	149.5	37.52
Colombia	37	11,951	.53	6.50	188.8	45.13
Florida Power Corp	**379**	**12,269**	**.56**	**5.82**	**171.4**	**42.06**
Australia	26	12,345	.69	9.71	141.6	34.95
Colombia	333	12,236	.54	5.39	175.0	42.83
Venezuela	19	12,744	.68	7.90	150.0	38.23
Gulf Power Co	**79**	**11,650**	**.47**	**12.80**	**220.8**	**51.45**
South Africa	79	11,650	.47	12.80	220.8	51.45
Jacksonville Electric Auth	**94**	**11,646**	**.58**	**7.90**	**137.0**	**31.91**
Colombia	94	11,646	.58	7.90	137.0	31.91
Mississippi Power Co	**66**	**12,206**	**.49**	**4.27**	**173.5**	**42.35**
Colombia	66	12,206	.49	4.27	173.5	42.35
New England Power Co	**29**	**11,928**	**.72**	**7.15**	**132.5**	**31.61**
Colombia	29	11,928	.72	7.15	132.5	31.61
Public Service Co of NH	**25**	**12,627**	**1.38**	**8.05**	**163.5**	**41.29**
Canada	16	13,100	1.80	8.50	168.6	44.18
Colombia	9	11,825	.67	7.30	153.8	36.37
1986	**1,486**	**11,853**	**.53**	**10.51**	**198.5**	**47.06**
Florida Power Corp	**455**	**12,074**	**.51**	**6.11**	**158.2**	**38.19**
Canada	37	10,005	.63	13.50	133.4	26.70
Colombia	418	12,257	.50	5.45	159.9	39.21
Gulf Power Co	**1,030**	**11,755**	**.53**	**12.45**	**216.9**	**50.98**
South Africa	1,030	11,755	.53	12.45	216.9	50.98

Notes: • Beginning in 1986, the average delivered cost for imported coal to the Florida Power Corporation Crystal River Plant includes only transportation costs to the transfer facility in Myrtle Grove, Louisiana, and excludes the transportation costs of approximately $7.00 to $10.00 per short ton between the transfer facility and the Crystal River Plant. • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 30. Receipts of Appalachian Region Coal, 1990

Company	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Alabama Electric Coop Inc	978	11,806	1.47	13.63	166.8	39.38
Alabama Power Co	15,325	12,211	1.32	12.32	206.1	50.34
Appalachian Power Co	11,760	12,434	.77	11.33	159.8	39.74
Atlantic City Electric Co	569	13,106	2.57	9.66	183.0	47.97
Baltimore Gas & Electric Co	3,532	12,926	1.04	8.67	157.2	40.64
Big Rivers Electric Corp	6	11,252	1.16	16.36	101.3	22.78
Cajun Electric Power Coop Inc	211	13,189	.67	5.83	204.2	53.86
Cardinal Operating Co	3,989	11,846	2.17	13.02	151.5	35.88
Carolina Power & Light Co	9,868	12,553	.91	10.14	179.9	45.16
Central Hudson Gas & Elec Corp	935	13,074	.58	8.08	205.8	53.80
Central Illinois Light Co	1,080	13,337	.66	5.62	176.7	47.13
Central Illinois Pub Serv Co	70	12,622	.67	9.98	155.9	39.35
Central Operating Co	2,152	12,308	1.13	11.70	139.1	34.23
Cincinnati Gas & Electric Co	7,246	11,723	1.87	12.21	143.8	33.72
Cleveland Electric Illum Co	5,381	12,580	2.64	9.29	154.1	38.77
Columbia City of	23	14,128	.63	5.59	212.8	60.12
Columbus Southern Power Co	3,905	11,763	3.12	8.31	155.4	36.56
Columbus City of	45	12,329	.74	8.58	168.6	41.58
Consumers Power Co	6,201	12,354	.82	10.46	162.7	40.19
Dairyland Power Coop	64	11,916	.82	10.46	152.1	36.26
Dayton Power & Light Co	9,054	11,817	1.24	13.15	150.4	35.54
Deepwater Operating Co	193	12,938	.84	9.41	177.8	46.01
Delmarva Power & Light Co	2,192	13,035	.97	8.71	181.5	47.31
Detroit Edison Co	7,226	12,939	1.14	7.83	177.6	45.95
Duke Power Co	10,257	12,535	1.01	9.65	175.6	44.01
Duquesne Light Co	2,238	12,355	1.72	11.92	143.2	35.39
East Kentucky Power Coop	2,843	12,170	1.18	11.22	119.2	29.01
Florida Power Corp	5,542	12,684	.81	8.40	177.2	44.94
Gainesville Regional Utilities	587	13,097	.66	6.53	180.1	47.17
Georgia Power Co	18,216	12,396	1.35	10.49	178.0	44.12
Gulf Power Co	48	13,436	2.68	6.25	194.4	52.25
Hamilton City of	96	12,351	.65	10.09	157.5	38.90
Holland City of	185	13,251	.82	5.98	172.9	45.82
Holyoke Water Power Co	405	13,055	1.38	6.55	177.2	46.26
Illinois Power Co	698	12,780	.70	8.29	159.7	40.81
Indiana Michigan Power Co	998	12,442	.70	9.00	221.8	55.19
Indianapolis Power & Light Co	2	13,283	.84	5.99	110.0	29.22
Jacksonville Electric Auth	2,407	12,504	1.03	10.10	178.4	44.62
Jamestown City of	122	12,624	1.85	10.40	144.7	36.53
Kentucky Power Co	2,735	11,983	1.08	11.72	122.6	29.38
Kentucky Utilities Co	4,458	12,539	1.08	10.21	135.9	34.08
Lakeland City of	902	12,242	1.09	10.48	208.4	51.02
Lansing City of	1,143	13,029	.85	7.03	181.5	47.30
Madison Gas & Electric Co	9	12,763	.82	8.20	187.7	47.91
Manitowoc City of	130	13,163	.85	7.39	185.6	48.86
Marquette City of	19	12,460	1.21	9.19	192.6	48.00
Metropolitan Edison Co	1,395	13,241	1.77	7.20	166.6	44.11
Michigan South Central Pwr Agy	143	11,733	3.39	10.04	204.0	47.87
Minnesota Power & Light Co	4	11,540	.76	10.68	207.9	47.99
Mississippi Power Co	1,362	12,958	.76	7.14	165.6	42.91
Monongahela Power Co	12,149	12,731	2.71	9.77	131.8	33.55
Montaup Electric Co	411	13,096	1.15	7.16	181.5	47.53
New England Power Co	3,129	13,089	1.26	8.23	171.1	44.80
New York State Elec & Gas Corp	4,518	12,493	2.13	11.39	153.1	38.24
Niagara Mohawk Power Corp	3,494	13,120	1.98	7.28	149.9	39.35
Northern Indiana Pub Serv Co	411	12,959	.72	8.37	169.4	43.91
Ohio Edison Co	7,853	12,144	2.08	11.40	128.7	31.27
Ohio Power Co	14,633	11,573	3.25	13.21	173.5	40.16
Ohio Valley Electric Corp	3,510	11,860	3.80	10.75	121.5	28.82
Orange & Rockland Utils Inc	687	13,101	.57	7.04	214.6	56.24
Orlando Utilities Comm	996	12,732	.80	9.52	189.7	48.30
Owensboro City of	18	10,680	2.85	13.80	116.3	24.84
Painesville City of	88	12,211	2.85	9.37	138.2	33.76
Pennsylvania Electric Co	17,920	12,084	1.81	15.23	145.4	35.13
Pennsylvania Power & Light Co	10,433	12,150	1.84	14.82	170.9	41.53
Pennsylvania Power Co	6,761	12,084	3.88	11.76	149.0	36.00
Philadelphia Electric Co	802	13,071	1.52	7.43	167.5	43.78
Potomac Edison Co	205	12,893	1.02	9.85	151.4	39.05
Potomac Electric Power Co	7,202	12,647	1.56	11.10	172.0	43.51

See footnotes at end of table.

Table 30. Receipts of Appalachian Region Coal, 1990 (Continued)

Company	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Public Service Co of IN Inc	20	11,629	2.55	13.50	119.5	27.79
Public Service Co of NH	1,127	13,317	1.96	6.96	177.1	47.18
Public Service Electric&Gas Co	2,064	13,567	.80	6.53	179.4	48.67
Richmond City of	47	11,772	2.28	9.41	131.7	31.02
Rochester City of	9	12,782	1.33	8.47	174.3	44.55
Rochester Gas & Electric Corp	813	13,182	2.12	7.21	160.7	42.36
S Mississippi Elec Pwr Assn	775	12,426	.97	9.01	203.5	50.57
Savannah Electric & Power Co	790	12,675	1.04	9.22	169.6	43.00
Seminole Electric Coop Inc	60	12,532	1.05	9.74	161.0	40.36
South Carolina Electric&Gas Co	4,501	12,811	1.19	8.79	166.8	42.73
South Carolina Pub Serv Auth	4,368	12,506	1.21	9.58	178.2	44.56
Tampa Electric Co	2,806	12,914	1.28	6.58	213.5	55.15
Tennessee Valley Authority	14,396	12,260	1.20	10.49	140.4	34.41
Toledo Edison Co	1,309	13,109	1.19	6.88	195.3	51.20
Union Electric Co	24	11,900	2.50	12.50	171.4	40.79
United Illuminating Co	954	13,233	.54	6.36	212.9	56.35
Vineland City of	10	12,892	.70	7.16	215.1	55.46
Virginia Electric & Power Co	9,645	12,574	1.38	11.23	149.3	37.54
West Penn Power Co	5,247	12,720	2.18	10.15	139.8	35.58
Wisconsin Electric Power Co	2,310	13,159	1.50	7.23	157.1	41.36
Wisconsin Power & Light Co	59	13,988	.79	4.87	173.3	48.47
Wisconsin Public Service Corp	129	13,170	1.63	8.26	167.6	44.16
Wyandotte Municipal Serv Comm	139	13,179	.73	7.32	190.0	50.08
Total	**295,770**	**12,395**	**1.63**	**10.85**	**162.3**	**40.24**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • The Appalachian Region includes Alabama, Georgia, eastern Kentucky, Maryland, Ohio, Pennsylvania, Tennessee, Virginia, and West Virginia.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 31. Receipts of Interior Region Coal, 1990

Company	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Alabama Electric Coop Inc	250	11,895	1.45	13.95	146.8	34.93
Associated Electric Coop Inc	5,542	10,753	3.51	10.34	132.3	28.46
Big Rivers Electric Corp	5,104	11,177	3.55	12.61	123.3	27.56
Cedar Falls City of	22	11,214	3.05	11.17	139.1	31.19
Central Electric Pwr Coop-MO	116	10,818	3.04	10.04	128.2	27.74
Central Illinois Light Co	1,050	10,582	3.29	8.51	182.5	38.62
Central Illinois Pub Serv Co	4,286	11,062	2.83	8.97	160.4	35.49
Central Iowa Power Coop	142	10,933	2.95	10.17	117.7	25.74
Cincinnati Gas & Electric Co	759	11,310	2.56	10.14	137.9	31.19
Columbia City of	13	10,530	3.69	11.84	158.6	33.41
Commonwealth Edison Co	2,335	10,266	3.46	9.37	138.0	28.34
Dairyland Power Coop	512	11,147	2.39	9.05	133.4	29.73
Electric Energy Inc	3,434	11,594	1.97	8.74	117.3	27.21
Empire District Electric Co	377	12,146	3.06	11.99	117.1	28.44
Georgia Power Co	6,723	11,484	2.88	9.50	187.2	43.01
Grand Haven City of	199	11,111	2.77	10.72	153.9	34.20
Grand River Dam Authority	177	12,851	3.86	8.62	107.0	27.49
Gulf Power Co	2,965	12,032	2.80	8.42	189.5	45.60
Hoosier Energy R E C Inc	2,751	11,038	3.67	11.55	122.5	27.05
Illinois Power Co	5,484	10,976	2.82	10.04	148.1	32.52
Independence City of	30	12,153	3.23	11.83	158.1	38.42
Indiana Michigan Power Co	1,881	10,953	2.97	9.55	132.2	28.96
Indiana-Kentucky Electric Corp	4,402	11,372	3.40	10.98	103.9	23.63
Indianapolis Power & Light Co	5,971	11,218	2.30	7.91	107.8	24.18
Interstate Power Co	721	11,104	2.19	9.04	149.1	33.12
Iowa Electric Light & Power Co	418	10,970	2.37	9.49	158.2	34.71
Iowa Southern Utilities Co	325	11,044	2.92	9.62	119.7	26.44
Iowa-Illinois Gas&Electric Co	233	10,796	2.69	12.66	127.5	27.54
Kansas City City of	235	11,515	2.73	11.72	225.8	52.00
Kansas City Power & Light Co	1,122	11,282	2.89	9.38	129.3	29.19
Kentucky Utilities Co	2,076	11,365	2.48	8.96	103.1	23.44
Louisville Gas & Electric Co	5,404	11,492	3.03	9.94	112.0	25.74
Madison Gas & Electric Co	91	12,076	2.19	8.02	164.1	39.63
Mississippi Power Co	1,783	12,277	2.60	7.86	148.5	36.46
Missouri Public Service Comm	822	11,019	3.13	9.88	163.3	35.99
Monongahela Power Co	25	11,935	3.47	12.70	129.9	31.01
Muscatine City of	530	11,208	3.13	7.10	192.0	43.03
Northern Indiana Pub Serv Co	3,427	11,130	3.09	10.11	142.9	31.81
Northern States Power Co	6	11,000	1.70	8.00	100.0	22.00
Oklahoma Gas & Electric Co	476	12,488	1.37	9.51	144.9	36.18
Owensboro City of	986	10,668	2.97	12.35	110.1	23.50
Public Service Co of IN Inc	13,566	10,881	2.37	10.20	146.0	31.78
Public Service Co of Oklahoma	162	11,681	.56	10.95	145.5	33.99
Richmond City of	188	11,238	2.72	11.32	166.0	37.32
Rochester City of	55	12,012	1.68	7.27	174.9	42.01
Seminole Electric Coop Inc	3,084	12,110	2.93	8.65	205.5	49.77
Sikeston City of	630	11,388	2.71	12.00	149.7	34.10
Southern Illinois Power Coop	739	10,435	3.13	19.20	91.5	19.10
Southern Indiana Gas & Elec Co	2,630	11,293	3.05	8.22	147.9	33.41
Springfield City of (MO)	861	11,670	2.27	8.16	133.6	31.19
Springfield City of (IL)	922	10,399	2.94	9.32	133.7	27.81
St Joseph Light & Power Co	172	11,622	3.25	12.09	133.0	30.92
Tampa Electric Co	3,843	11,793	2.89	8.64	155.3	36.62
Tennessee Valley Authority	22,278	11,460	3.19	11.36	118.4	27.14
Union Electric Co	7,899	11,391	2.32	9.17	159.8	36.42
Western Farmers Elec Coop Inc	65	12,861	.55	7.61	173.0	44.50
Wisconsin Electric Power Co	513	11,781	1.64	7.35	150.6	35.49
Wisconsin Power & Light Co	1,084	11,260	2.15	9.09	182.7	41.13
Wisconsin Public Service Corp	829	11,143	1.71	8.88	206.1	45.94
Total	**132,726**	**11,282**	**2.86**	**10.01**	**139.7**	**31.53**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • The Interior Region includes Arkansas, Illinois, Indiana, Iowa, Kansas, western Kentucky, Missouri, Oklahoma, and Texas. • This table excludes all lignite receipts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 32. Receipts of Western Region Coal, 1990

Company	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Alabama Power Co	216	8,657	0.38	5.21	169.7	29.39
Ames City of	193	8,801	.22	4.55	126.5	22.26
Arizona Electric Pwr Coop Inc	1,074	11,741	.41	16.30	172.3	40.46
Arizona Public Service Co	11,767	9,047	.71	20.05	121.7	22.02
Arkansas Power & Light Co	9,215	8,807	.34	5.35	162.7	28.66
Associated Electric Coop Inc	194	8,539	.31	4.77	121.2	20.69
Basin Electric Power Coop	6,670	8,302	.37	5.30	58.5	9.72
Cajun Electric Power Coop Inc	4,471	8,388	.43	5.33	167.7	28.14
Central Illinois Pub Serv Co	359	11,642	.50	11.53	159.7	37.19
Central Louisiana Elec Co Inc	1,666	8,800	.49	5.80	192.8	33.93
Central Power & Light Co	1,829	10,588	.38	6.30	206.0	43.63
Century Power Corp	1,785	9,268	.62	16.53	196.8	36.48
Colorado Springs City of	1,369	10,700	.40	6.56	142.3	30.45
Colorado Ute Electric Assn Inc	5,613	10,322	.39	7.78	93.1	19.22
Commonwealth Edison Co	6,181	9,551	.40	6.40	295.7	56.48
Consumers Power Co	509	8,962	.31	4.97	126.5	22.67
Dairyland Power Coop	1,458	8,422	.36	5.19	131.4	22.14
Deseret Generation & Tran Coop	1,508	10,736	.48	8.86	223.3	47.95
Detroit Edison Co	12,390	9,416	.33	4.22	139.9	26.35
East Kentucky Power Coop	11	8,442	.33	5.60	133.0	22.46
Electric Energy Inc	44	8,636	.37	5.16	118.8	20.51
Empire District Electric Co	531	8,811	.23	4.60	104.0	18.33
Fremont City of	191	8,624	.38	5.33	82.4	14.21
Georgia Power Co	2,159	8,633	.31	5.23	155.2	26.80
Grand Island City of	283	8,397	.36	5.91	68.4	11.49
Grand River Dam Authority	3,288	8,404	.32	4.85	100.9	16.96
Gulf States Utilities Co	2,059	8,805	.49	5.86	192.6	33.91
Hastings City of	187	8,682	.27	4.87	103.7	18.00
Houston Lighting & Power Co	9,061	8,463	.41	5.35	233.6	39.54
Illinois Power Co	122	9,515	.37	7.86	154.6	29.43
Indiana Michigan Power Co	9,954	8,575	.32	4.99	121.1	20.77
Interstate Power Co	704	8,300	.32	4.68	226.7	37.63
Iowa Electric Light & Power Co	273	9,632	.68	5.69	116.6	22.46
Iowa Power & Light Co	3,193	8,310	.33	4.65	97.5	16.20
Iowa Public Service Co	4,923	8,690	.39	5.88	84.3	14.65
Iowa Southern Utilities Co	2,243	8,391	.35	5.69	103.0	17.29
Iowa-Illinois Gas&Electric Co	1,777	8,414	.35	5.51	110.4	18.57
Kansas City City of	1,039	8,794	.38	5.75	108.9	19.16
Kansas City Power & Light Co	7,856	8,621	.33	5.05	93.9	16.18
Kansas Power & Light Co	9,230	8,771	.36	5.52	133.0	23.34
Los Angeles City of	4,822	11,702	.51	8.28	143.8	33.65
Lower Colorado River Authority	5,469	8,683	.36	5.30	126.9	22.04
Marquette City of	122	8,921	.50	6.53	177.5	31.67
Minnesota Power & Light Co	4,034	8,718	.71	9.72	135.5	23.63
Missouri Public Service Comm	36	12,085	.50	7.75	141.0	34.08
Montana Power Co	9,343	8,602	.63	8.85	66.3	11.42
Nebraska Public Power District	3,831	8,804	.37	5.18	82.1	14.46
Nevada Power Co	1,886	11,896	.63	9.89	177.6	42.26
Northern Indiana Pub Serv Co	2,598	10,304	.45	6.17	189.8	39.11
Northern States Power Co	12,216	8,775	.43	6.91	121.2	21.27
Oklahoma Gas & Electric Co	6,073	8,791	.36	5.10	137.9	24.25
Omaha Public Power District	3,448	8,295	.34	4.82	65.7	10.90
Otter Tail Power Co	185	9,242	.38	4.32	125.3	23.16
PacifiCorp	28,990	9,521	.59	10.46	98.5	18.75
Plains Elec Gen&Trans Coop Inc	836	9,223	.65	17.19	131.4	24.24
Platte River Power Authority	1,089	8,778	.32	5.46	73.1	12.83
Portland General Electric Co	968	8,348	.31	4.57	107.9	18.02
Public Service Co of Colorado	7,272	9,397	.37	6.60	113.9	21.41
Public Service Co of NM	5,683	9,644	.80	22.03	170.4	32.87
Public Service Co of Oklahoma	3,150	8,798	.48	5.88	165.4	29.11
Rochester City of	2	9,880	1.30	3.50	158.0	31.22
Salt River Proj Ag I & P Dist	9,314	10,777	.48	9.89	121.1	26.10
San Antonio City of	2,655	8,376	.40	6.13	126.5	21.19
Sierra Pacific Power Co	1,420	10,575	.39	8.97	193.0	40.83
Sikeston City of	20	10,190	.24	11.49	142.0	28.95
Southern California Edison Co	4,171	10,959	.53	10.08	120.6	26.43
Southwestern Electric Power Co	6,411	8,384	.33	4.76	192.1	32.21
Southwestern Public Service Co	8,266	8,750	.38	5.16	171.6	30.03
Sunflower Electric Power Corp	1,052	8,478	.33	4.95	97.3	16.50

See footnotes at end of table.

Table 32. Receipts of Western Region Coal, 1990—Continued

Company	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Tennessee Valley Authority	202	8,618	0.35	5.37	122.5	21.11
Tucson Electric Power Co	167	10,192	.49	13.03	283.0	57.69
Union Electric Co	2,299	8,919	.50	6.28	113.2	20.19
West Texas Utilities Co	2,595	8,333	.34	4.82	168.7	28.12
Western Farmers Elec Coop Inc	1,080	8,353	.44	5.32	200.8	33.55
Wisconsin Electric Power Co	5,444	8,563	.39	5.41	109.5	18.75
Wisconsin Power & Light Co	5,406	8,763	.45	6.34	127.0	22.26
Wisconsin Public Service Corp	1,185	8,783	.36	5.07	136.6	23.99
Total	**281,334**	**9,123**	**.45**	**7.63**	**133.6**	**24.37**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • The Western Region includes Arizona, Colorado, Montana, New Mexico, North Dakota, Utah, Washington, and Wyoming. • This table excludes all lignite receipts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 33. Origin and Destination of Coal Received by Bureau of Mines District and State, 1990

BOM District Origin State Destination State	Quantity (1,000 short tons)	Percent of Receipts		Average Quality			Average Delivered Cost	
		Surface	Spot	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
District 1	**40,693**	**51.3**	**27.7**	**12,313**	**1.81**	**13.8**	**157.6**	**38.80**
Maryland	**3,004**	**44.4**	**49.8**	**12,612**	**1.61**	**12.6**	**152.9**	**38.57**
Delaware	21	-	-	12,865	1.43	12.2	141.5	36.41
Maryland	1,732	47.4	54.4	12,826	1.58	11.2	171.6	44.02
Massachusetts	40	-	100.0	13,684	1.02	6.6	185.2	50.69
New York	26	100.0	100.0	10,641	1.46	22.6	169.1	36.00
West Virginia	1,185	41.1	41.1	12,302	1.69	14.7	123.1	30.28
Pennsylvania	**33,466**	**55.8**	**27.0**	**12,253**	**1.85**	**14.1**	**158.0**	**38.73**
Delaware	393	5.1	67.6	12,934	1.34	9.5	162.8	42.10
Maryland	2,548	100.0	8.4	12,483	1.83	12.4	179.3	44.75
Massachusetts	222	15.4	23.5	13,018	1.41	9.4	167.2	43.53
Michigan	267	100.0	-	12,730	2.83	9.4	129.1	32.88
New Jersey	19	100.0	100.0	13,133	.84	7.9	183.0	48.06
New York	2,984	91.0	70.1	12,127	1.82	12.9	156.0	37.83
Ohio	280	57.1	99.7	12,798	2.53	10.0	134.7	34.48
Pennsylvania	26,735	48.3	22.8	12,219	1.84	14.6	156.6	38.27
West Virginia	18	100.0	100.0	11,543	1.84	16.4	123.6	28.53
West Virginia	**4,224**	**19.8**	**17.5**	**12,574**	**1.70**	**12.4**	**157.2**	**39.52**
Maryland	595	-	49.5	12,856	1.62	10.3	164.3	42.24
Massachusetts	426	-	-	13,061	1.42	9.2	164.4	42.95
West Virginia	3,202	26.1	13.8	12,456	1.76	13.2	154.8	38.56
District 2	**16,270**	**35.5**	**37.0**	**12,796**	**1.83**	**9.0**	**150.0**	**38.40**
Pennsylvania	**16,270**	**35.5**	**37.0**	**12,796**	**1.83**	**9.0**	**150.0**	**38.40**
Delaware	29	-	100.0	13,372	1.21	5.8	163.0	43.59
Kentucky	12	63.6	87.6	11,887	2.43	13.6	112.7	26.80
Maryland	30	23.3	100.0	13,086	2.29	8.1	162.4	42.51
Massachusetts	656	-	90.9	13,073	1.40	7.3	176.4	46.11
Michigan	1,664	6.4	31.1	13,007	1.24	7.5	162.5	42.29
Minnesota	3	-	-	13,326	1.36	5.9	175.8	46.85
New Hampshire	295	-	-	13,290	1.36	6.4	179.1	47.60
New Jersey	7	100.0	100.0	12,604	2.32	8.3	205.4	51.78
New York	2,428	33.2	30.0	13,069	1.84	7.3	155.7	40.70
Ohio	3,002	73.7	35.9	12,540	2.13	10.3	140.3	35.18
Pennsylvania	5,807	44.0	44.9	12,522	1.92	10.6	145.7	36.50
West Virginia	576	13.7	71.2	13,140	2.16	7.5	113.4	29.79
Wisconsin	1,760	-	-	13,249	1.71	6.9	156.7	41.53
District 3	**30,272**	**16.3**	**14.6**	**12,801**	**2.10**	**10.0**	**151.1**	**38.69**
West Virginia	**30,272**	**16.3**	**14.6**	**12,801**	**2.10**	**10.0**	**151.1**	**38.69**
Delaware	826	13.6	3.3	13,233	1.00	8.4	187.5	49.61
Florida	556	6.5	18.8	13,277	2.20	7.1	190.7	50.63
Maryland	3,305	35.0	33.0	12,853	1.43	9.3	154.8	39.80
Massachusetts	873	16.0	2.5	13,023	1.21	8.1	167.1	43.53
Michigan	99	100.0	99.8	12,859	2.73	10.1	142.3	36.61
New Hampshire	660	-	19.3	13,385	2.41	7.3	172.9	46.28
New Jersey	1,488	38.8	7.9	13,084	1.47	8.9	180.8	47.32
New York	3,449	1.8	11.0	13,219	2.45	7.7	147.0	38.88
Ohio	1,006	46.1	36.6	12,750	1.97	9.6	142.8	36.41
Pennsylvania	5,736	12.7	5.7	12,757	2.11	10.1	144.1	36.77
Virginia	21	-	100.0	13,400	2.30	7.5	166.8	44.71
West Virginia	12,171	12.8	13.6	12,553	2.38	11.4	144.6	36.30
Wisconsin	81	-	100.0	13,428	2.18	7.4	161.6	43.40
District 4	**30,103**	**58.0**	**29.4**	**11,717**	**3.34**	**11.3**	**149.3**	**34.98**
Ohio	**30,103**	**58.0**	**29.4**	**11,717**	**3.34**	**11.3**	**149.3**	**34.98**
Alabama	607	95.9	4.1	11,601	2.28	12.1	116.8	27.09
Georgia	46	100.0	100.0	11,925	2.72	12.5	142.1	33.88
Indiana	54	100.0	100.0	11,707	2.65	10.8	126.6	29.65
Kentucky	251	90.7	48.2	11,372	2.76	12.4	144.2	32.80
Maryland	7	-	100.0	12,750	2.27	6.9	165.5	42.20
Michigan	178	100.0	19.7	11,893	3.29	10.0	190.0	45.20
Missouri	24	-	100.0	11,900	2.50	12.5	171.4	40.79
New Jersey	14	100.0	100.0	12,533	2.07	8.9	202.7	50.82
New York	59	83.6	100.0	12,584	1.88	9.2	161.6	40.66
Ohio	25,435	60.4	30.3	11,651	3.28	11.3	153.4	35.74
Pennsylvania	1,768	42.6	3.5	12,082	4.05	11.8	150.6	36.40
West Virginia	1,660	11.0	42.0	12,357	4.08	10.3	96.1	23.75

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 33. Origin and Destination of Coal Received by Bureau of Mines District and State, 1990 (Continued)

BOM District Origin State Destination State	Quantity (1,000 short tons)	Percent of Receipts		Average Quality			Average Delivered Cost	
		Surface	Spot	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
District 6	**9,749**	**6.5**	**3.4**	**12,137**	**3.91**	**11.5**	**144.3**	**35.01**
West Virginia	**9,749**	**6.5**	**3.4**	**12,137**	**3.91**	**11.5**	**144.3**	**35.01**
Kentucky	3	100.0	100.0	11,526	2.58	13.0	126.5	29.16
New Hampshire	38	-	-	13,401	2.66	6.1	173.5	46.50
Ohio	4,104	4.8	4.8	12,170	3.50	10.4	140.0	34.07
Pennsylvania	3,948	10.9	-	12,088	4.18	11.9	151.2	36.56
West Virginia	1,656	-	7.7	12,142	4.33	13.2	137.6	33.42
District 7	**821**	**22.8**	**38.9**	**13,043**	**.89**	**8.6**	**178.3**	**46.52**
Virginia	**665**	**11.8**	**25.5**	**13,131**	**.94**	**8.5**	**183.4**	**48.17**
Florida	90	-	100.0	14,040	.83	4.6	161.4	45.32
Kentucky	60	-	-	13,986	.81	5.5	158.3	44.29
Maryland	21	-	100.0	13,980	.66	5.6	179.3	50.13
Massachusetts	40	-	-	12,837	1.19	9.2	167.7	43.06
Michigan	113	33.3	-	13,296	1.44	7.5	185.8	49.42
Virginia	283	14.4	-	12,396	.80	11.5	201.4	49.92
Wisconsin	59	-	100.0	13,988	.79	4.9	173.3	48.47
West Virginia	**156**	**69.8**	**96.1**	**12,667**	**.71**	**9.3**	**155.8**	**39.46**
Alabama	25	100.0	100.0	12,979	.83	9.7	142.9	37.09
Delaware	12	29.2	48.9	13,067	.72	6.3	202.1	52.83
Kentucky	73	100.0	100.0	11,924	.68	11.6	133.0	31.71
Massachusetts	46	15.5	100.0	13,581	.68	6.3	182.9	49.68
District 8	**149,915**	**44.4**	**28.0**	**12,487**	**1.02**	**10.0**	**166.8**	**41.65**
Kentucky	**85,199**	**48.2**	**29.5**	**12,426**	**1.07**	**9.7**	**168.1**	**41.78**
Alabama	1,351	31.2	52.1	12,535	.98	9.1	143.6	35.99
Connecticut	954	-	10.7	13,233	.54	6.4	212.9	56.35
Delaware	117	2.4	85.8	12,837	.67	7.2	193.9	49.79
Florida	10,087	39.9	13.7	12,718	.96	8.2	184.3	46.87
Georgia	12,616	61.3	31.0	12,268	1.37	10.7	170.8	41.91
Illinois	1,436	16.0	36.0	13,199	.67	6.2	172.3	45.48
Indiana	945	41.6	17.0	12,588	.71	8.5	213.1	53.65
Kentucky	9,471	73.5	41.2	12,187	1.03	10.8	131.7	32.09
Maryland	407	90.2	20.1	12,942	.73	7.9	159.6	41.30
Massachusetts	49	85.5	100.0	12,598	.94	8.7	179.9	45.33
Michigan	7,242	49.6	28.3	12,681	.93	8.4	177.0	44.88
Minnesota	8	6.8	43.4	12,105	1.10	9.8	188.5	45.65
Mississippi	2,138	-	6.6	12,765	.84	7.8	179.0	45.69
Missouri	23	-	100.0	14,128	.63	5.6	212.8	60.12
New Hampshire	17	16.7	100.0	12,968	.88	6.6	201.2	52.20
New Jersey	47	36.7	100.0	13,051	.75	7.6	190.1	49.61
New York	659	-	5.8	13,290	.52	6.9	211.2	56.13
North Carolina	9,670	45.3	20.1	12,551	.99	8.8	182.7	45.88
Ohio	9,396	73.1	52.9	11,859	1.14	12.7	156.1	37.02
Pennsylvania	50	-	-	12,710	1.26	8.7	177.7	45.16
South Carolina	8,145	11.2	27.5	12,597	1.17	9.3	173.5	43.71
Tennessee	6,720	45.8	21.5	12,063	1.26	11.1	151.6	36.58
Virginia	2,701	49.2	36.7	12,697	1.05	8.6	157.0	39.87
West Virginia	753	81.2	19.0	12,357	.93	9.1	181.1	44.75
Wisconsin	196	65.9	79.9	12,894	.84	8.1	177.9	45.87
Tennessee	**3,809**	**7.3**	**34.6**	**12,689**	**1.57**	**9.3**	**148.3**	**37.65**
Florida	126	100.0	-	12,780	1.11	6.6	215.2	55.00
Georgia	1,269	7.8	58.2	12,783	1.41	8.7	180.5	46.14
Illinois	155	-	-	13,205	.77	6.8	168.8	44.58
Kentucky	626	3.4	13.2	12,603	2.61	11.2	119.6	30.14
South Carolina	212	-	100.0	12,613	1.47	8.4	163.5	41.25
Tennessee	1,421	2.1	19.9	12,591	1.40	9.8	121.3	30.53
Virginia	**16,701**	**35.8**	**14.2**	**12,944**	**1.14**	**9.5**	**168.1**	**43.52**
Delaware	227	.0	48.3	13,180	.93	8.3	195.0	51.41
Florida	879	-	-	12,389	.71	9.2	245.2	60.75
Georgia	3,339	43.5	26.9	12,958	1.37	9.6	173.6	45.00
Indiana	56	-	100.0	14,075	.81	4.9	164.4	46.27
Massachusetts	1,470	19.7	8.9	13,123	1.19	7.7	176.0	46.19
New Jersey	963	4.8	2.8	14,108	.80	4.7	177.8	50.16
North Carolina	4,345	58.6	2.6	12,768	1.08	10.5	168.5	43.03
South Carolina	993	73.2	5.5	13,142	1.31	8.4	161.8	42.53
Tennessee	1,223	-	-	13,060	1.79	8.6	131.2	34.27
Virginia	3,205	28.6	30.8	12,744	.92	11.0	148.8	37.92

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 33. Origin and Destination of Coal Received by Bureau of Mines District and State, 1990 (Continued)

BOM District Origin State Destination State	Quantity (1,000 short tons)	Percent of Receipts		Average Quality			Average Delivered Cost	
		Surface	Spot	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
District 8								
West Virginia	**44,206**	**43.4**	**29.7**	**12,415**	**0.83**	**10.8**	**165.3**	**41.04**
Alabama	69	6.3	6.3	11,768	.81	12.9	136.5	32.13
Delaware	566	23.3	4.4	12,788	.70	9.2	179.4	45.89
Florida	1,609	52.2	10.4	12,425	.75	10.8	181.7	45.14
Georgia	1,497	.8	1.4	12,102	.67	11.4	247.3	59.86
Illinois	258	48.5	79.1	12,481	.66	10.0	154.7	38.63
Indiana	422	54.7	49.6	12,389	.68	10.2	193.8	48.02
Kentucky	2,996	63.5	56.9	12,235	.77	11.2	129.3	31.63
Louisiana	211	-	-	13,189	.67	5.8	204.2	53.86
Maryland	1,356	53.9	13.1	12,658	.69	10.0	155.0	39.24
Massachusetts	123	-	100.0	13,268	1.28	6.4	186.3	49.43
Michigan	6,043	71.1	25.8	12,660	.82	9.7	169.6	42.94
Minnesota	2	33.3	-	12,482	1.19	11.5	169.3	42.26
New Hampshire	117	-	19.1	13,030	.85	7.1	194.4	50.67
New Jersey	296	13.6	37.1	13,098	.80	8.0	181.3	47.50
New York	962	-	17.1	12,945	.61	8.1	208.4	53.95
North Carolina	5,591	23.5	19.8	12,357	.80	11.3	177.1	43.77
Ohio	7,862	56.2	33.3	12,138	.92	12.0	153.8	37.33
South Carolina	38	19.9	33.4	12,636	1.02	11.9	180.8	45.70
Tennessee	10	-	-	12,319	.70	9.1	157.8	38.88
Virginia	2,278	25.0	32.5	12,725	.94	9.5	153.9	39.17
West Virginia	11,846	38.3	34.8	12,393	.84	11.2	158.3	39.25
Wisconsin	55	47.9	100.0	12,223	.69	10.6	170.2	41.60
District 9	**43,619**	**52.4**	**20.3**	**11,540**	**3.21**	**11.1**	**125.3**	**28.93**
Kentucky	**43,619**	**52.4**	**20.3**	**11,540**	**3.21**	**11.1**	**125.3**	**28.93**
Alabama	2,064	21.1	59.8	11,759	3.03	10.4	129.2	30.38
Florida	5,249	34.2	41.4	12,277	2.90	8.6	166.0	40.75
Georgia	1,842	78.5	24.8	11,827	2.90	10.3	160.0	37.85
Illinois	757	94.7	100.0	11,576	1.73	8.2	120.5	27.90
Indiana	3,647	67.4	6.4	11,493	3.44	11.2	105.3	24.21
Iowa	29	100.0	100.0	11,218	3.09	11.2	133.2	29.88
Kentucky	18,830	50.1	13.9	11,185	3.70	13.4	111.3	24.91
Michigan	50	100.0	100.0	11,678	2.99	10.1	140.5	32.81
Mississippi	629	17.0	100.0	11,890	2.61	6.9	144.4	34.35
Missouri	1,043	70.7	-	11,316	2.99	10.7	119.6	27.06
Ohio	266	91.8	29.9	11,373	2.39	9.8	136.2	30.97
Tennessee	9,186	58.8	6.4	11,763	2.64	8.7	127.6	30.02
West Virginia	25	-	-	11,935	3.47	12.7	129.9	31.01
District 10	**54,232**	**31.2**	**16.4**	**11,179**	**2.71**	**9.5**	**158.2**	**35.37**
Illinois	**54,232**	**31.2**	**16.4**	**11,179**	**2.71**	**9.5**	**158.2**	**35.37**
Alabama	463	-	100.0	11,485	2.28	8.0	112.8	25.90
Florida	4,212	-	2.1	11,648	2.81	8.5	209.0	48.69
Georgia	4,881	-	4.5	11,355	2.87	9.2	197.9	44.95
Illinois	15,573	34.8	9.8	10,919	2.97	9.8	146.1	31.90
Indiana	9,698	27.9	14.6	10,877	2.65	10.5	157.0	34.15
Iowa	1,159	67.9	8.5	11,146	2.76	8.4	167.6	37.37
Kansas	1,223	63.7	80.8	11,251	2.82	9.6	149.0	33.54
Kentucky	91	11.4	11.4	11,538	1.84	8.8	135.0	31.15
Minnesota	51	-	-	12,126	1.62	6.9	178.4	43.26
Mississippi	1,131	44.4	10.8	12,506	2.55	8.4	151.1	37.79
Missouri	12,410	50.4	17.2	11,256	2.51	9.5	150.9	33.98
Ohio	24	100.0	100.0	11,420	2.93	11.3	116.7	26.65
Tennessee	2,182	-	72.6	11,646	2.09	8.3	121.4	28.28
Wisconsin	1,136	36.6	20.7	11,527	2.01	8.1	144.2	33.25
District 11	**30,899**	**92.6**	**25.9**	**11,104**	**2.55**	**9.3**	**127.8**	**28.38**
Indiana	**30,899**	**92.6**	**25.9**	**11,104**	**2.55**	**9.3**	**127.8**	**28.38**
Alabama	459	25.0	100.0	11,399	2.33	8.0	117.0	26.67
Florida	431	87.6	100.0	11,226	3.21	9.1	107.8	24.20
Illinois	1,919	98.4	28.4	10,938	1.74	9.1	125.0	27.35
Indiana	21,471	95.0	20.5	11,092	2.67	9.3	124.5	27.61
Iowa	1,078	93.9	29.4	11,016	2.47	9.9	135.0	29.74
Kentucky	2,525	100.0	35.6	11,122	2.67	9.4	110.5	24.57
Michigan	148	100.0	40.7	10,919	2.69	10.9	158.8	34.67

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 33. Origin and Destination of Coal Received by Bureau of Mines District and State, 1990 (Continued)

BOM District Origin State Destination State	Quantity (1,000 short tons)	Percent of Receipts		Average Quality			Average Delivered Cost	
		Surface	Spot	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
District 11								
Indiana								
Minnesota	69	100.0	87.5	10,968	1.96	9.5	156.3	34.29
Mississippi	23	100.0	100.0	11,616	4.84	8.3	126.0	29.27
Missouri	115	100.0	-	11,117	3.23	9.4	121.8	27.07
Ohio	62	100.0	100.0	10,895	3.16	9.8	109.4	23.84
Tennessee	704	-	100.0	11,527	2.02	8.1	122.7	28.29
Wisconsin	1,893	100.0	1.0	11,198	1.97	9.0	193.2	43.28
District 12	**66**	**100.0**	**-**	**10,128**	**3.33**	**11.8**	**163.7**	**33.17**
Iowa	**66**	**100.0**	**-**	**10,128**	**3.33**	**11.8**	**163.7**	**33.17**
Iowa	66	100.0	-	10,128	3.33	11.8	163.7	33.17
District 13	**17,192**	**48.3**	**13.3**	**12,196**	**1.32**	**12.4**	**199.7**	**48.72**
Alabama	**16,383**	**48.9**	**9.6**	**12,190**	**1.34**	**12.4**	**203.5**	**49.61**
Alabama	16,144	48.8	8.3	12,191	1.33	12.4	204.2	49.79
Georgia	239	57.6	100.0	12,127	2.03	11.9	155.1	37.61
Tennessee	**809**	**34.9**	**88.0**	**12,311**	**.81**	**12.4**	**124.5**	**30.65**
Alabama	809	34.9	88.0	12,311	.81	12.4	124.5	30.65
District 14	**148**	**100.0**	**100.0**	**12,831**	**1.32**	**9.9**	**144.9**	**37.18**
Oklahoma	**148**	**100.0**	**100.0**	**12,831**	**1.32**	**9.9**	**144.9**	**37.18**
Oklahoma	148	100.0	100.0	12,831	1.32	9.9	144.9	37.18
District 15	**56,034**	**100.0**	**2.2**	**6,690**	**1.14**	**15.8**	**113.8**	**15.22**
Kansas	**650**	**100.0**	**95.4**	**12,074**	**3.14**	**12.0**	**123.0**	**29.70**
Kansas	244	100.0	100.0	12,062	2.92	11.7	120.9	29.17
Missouri	405	100.0	92.6	12,081	3.27	12.2	124.2	30.01
Louisiana	**3,186**	**100.0**	**-**	**6,881**	**.55**	**12.5**	**133.5**	**18.37**
Louisiana	3,186	100.0	-	6,881	.55	12.5	133.5	18.37
Missouri	**2,343**	**100.0**	**2.4**	**10,570**	**4.18**	**10.1**	**150.8**	**31.87**
Missouri	2,343	100.0	2.4	10,570	4.18	10.1	150.8	31.87
Oklahoma	**769**	**100.0**	**65.4**	**12,337**	**1.86**	**9.6**	**138.1**	**34.07**
Missouri	36	100.0	-	11,844	4.31	13.9	138.3	32.77
Oklahoma	733	100.0	68.6	12,361	1.74	9.4	138.1	34.14
Texas	**49,086**	**100.0**	**.2**	**6,332**	**1.00**	**16.4**	**108.4**	**13.73**
Texas	49,086	100.0	.2	6,332	1.00	16.4	108.4	13.73
District 17	**15,709**	**51.7**	**21.7**	**10,730**	**.41**	**8.8**	**143.6**	**30.81**
Colorado	**15,382**	**51.4**	**21.1**	**10,694**	**.41**	**8.7**	**143.1**	**30.60**
Arizona	979	-	-	11,812	.39	16.7	173.7	41.04
Colorado	9,985	65.4	25.3	10,517	.41	8.1	106.6	22.43
Illinois	11	-	100.0	11,027	.44	11.2	156.3	34.47
Indiana	600	-	13.6	11,174	.42	9.5	284.7	63.62
Kansas	178	94.2	5.8	11,817	.39	16.6	118.5	28.00
Missouri	292	-	-	11,750	.47	9.6	159.7	37.52
Texas	1,829	66.2	33.8	10,588	.38	6.3	206.0	43.63
Utah	1,508	-	-	10,736	.48	8.9	223.3	47.95
New Mexico	**327**	**67.4**	**52.8**	**12,401**	**.54**	**12.8**	**164.4**	**40.77**
Arizona	43	100.0	-	11,952	.53	14.9	159.8	38.19
Illinois	222	66.7	50.0	12,377	.56	13.3	165.9	41.06
Missouri	18	-	100.0	13,026	.44	9.2	134.7	35.10
Wisconsin	43	67.0	100.0	12,707	.49	10.1	174.1	44.25
District 18	**33,764**	**100.0**	**.1**	**9,884**	**.63**	**16.0**	**134.2**	**26.52**
Arizona	**11,447**	**100.0**	**-**	**11,015**	**.50**	**9.2**	**107.9**	**23.76**
Arizona	7,276	100.0	-	11,047	.48	8.6	100.6	22.23
Nevada	4,171	100.0	-	10,959	.53	10.1	120.6	26.43
New Mexico	**22,317**	**100.0**	**.1**	**9,304**	**.70**	**19.6**	**150.1**	**27.94**
Arizona	7,076	100.0	.3	9,708	.50	14.7	187.2	36.35
New Mexico	15,241	100.0	-	9,117	.79	21.8	131.8	24.03
District 19	**176,478**	**99.4**	**15.5**	**8,669**	**.38**	**5.6**	**132.7**	**23.01**
Wyoming	**176,478**	**99.4**	**15.5**	**8,669**	**.38**	**5.6**	**132.7**	**23.01**
Alabama	216	100.0	100.0	8,657	.38	5.2	169.7	29.39
Arizona	11	100.0	100.0	10,510	.42	8.1	186.7	39.24
Arkansas	10,939	100.0	-	8,740	.34	5.3	161.1	28.17

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 33. Origin and Destination of Coal Received by Bureau of Mines District and State, 1990 (Continued)

BOM District Origin State Destination State	Quantity (1,000 short tons)	Percent of Receipts		Average Quality			Average Delivered Cost	
		Surface	Spot	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
District 19								
Wyoming								
Colorado	5,358	100.0	-	8,485	0.33	4.9	104.8	17.78
Georgia	2,159	100.0	100.0	8,633	.31	5.2	155.2	26.80
Illinois	3,400	100.0	7.2	9,527	.42	8.6	288.1	54.90
Indiana	11,715	91.0	16.1	8,810	.35	5.0	127.9	22.54
Iowa	13,306	100.0	36.3	8,512	.36	5.4	102.7	17.48
Kansas	14,126	100.0	9.9	8,659	.35	5.2	121.6	21.06
Kentucky	213	100.0	34.8	8,609	.35	5.4	123.0	21.18
Louisiana	8,196	100.0	-	8,576	.46	5.6	179.4	30.77
Michigan	2,379	100.0	72.8	8,794	.30	5.1	110.2	19.39
Minnesota	7,116	100.0	.6	8,827	.27	4.9	115.6	20.41
Missouri	7,641	99.5	36.2	8,652	.37	5.3	96.5	16.70
Nebraska	7,940	99.9	22.6	8,561	.35	5.0	75.2	12.88
Nevada	575	100.0	-	9,650	.43	8.8	202.7	39.11
Oklahoma	13,590	100.0	5.7	8,664	.39	5.2	140.5	24.35
Oregon	968	100.0	-	8,348	.31	4.6	107.9	18.02
South Dakota	11	100.0	100.0	8,849	.36	5.2	113.7	20.13
Texas	32,734	100.0	5.8	8,544	.38	5.2	182.1	31.12
Washington	348	100.0	100.0	8,554	.30	5.0	127.4	21.80
Wisconsin	10,605	100.0	31.3	8,570	.35	5.2	109.1	18.70
Wyoming	22,932	100.0	16.4	8,811	.54	7.7	83.6	14.74
District 20	**15,237**	**-**	**10.8**	**11,592**	**.50**	**10.2**	**118.5**	**27.46**
Utah	**15,237**	**-**	**10.8**	**11,592**	**.50**	**10.2**	**118.5**	**27.46**
Nevada	2,731	-	.3	11,682	.55	9.6	180.5	42.18
Utah	12,506	-	13.1	11,573	.50	10.3	104.8	24.25
District 21	**22,983**	**100.0**	**-**	**6,586**	**.82**	**9.2**	**72.4**	**9.54**
North Dakota	**22,983**	**100.0**	**-**	**6,586**	**.82**	**9.2**	**72.4**	**9.54**
Minnesota	1	100.0	-	6,978	.61	7.0	174.4	24.34
North Dakota	20,915	100.0	-	6,636	.81	9.3	68.6	9.10
South Dakota	2,067	100.0	-	6,081	.90	8.5	114.6	13.93
District 22	**35,627**	**100.0**	**6.0**	**9,012**	**.53**	**7.1**	**136.8**	**24.66**
Montana	**35,627**	**100.0**	**6.0**	**9,012**	**.53**	**7.1**	**136.8**	**24.66**
Illinois	2,726	100.0	-	9,602	.37	4.1	288.7	55.43
Indiana	585	100.0	40.5	9,473	.37	4.2	232.9	44.13
Michigan	11,504	100.0	4.5	9,480	.35	4.3	148.0	28.07
Minnesota	9,309	100.0	10.2	8,720	.67	9.6	131.8	22.98
Montana	9,519	100.0	-	8,564	.63	8.8	67.0	11.47
Wisconsin	1,983	100.0	21.2	8,864	.62	7.9	158.3	28.06
District 23	**4,696**	**100.0**	**.2**	**8,104**	**.73**	**15.3**	**160.0**	**25.93**
Washington	**4,696**	**100.0**	**.2**	**8,104**	**.73**	**15.3**	**160.0**	**25.93**
Washington	4,696	100.0	.2	8,104	.73	15.3	160.0	25.93
District 24	**753**	**98.1**	**61.5**	**8,070**	**.71**	**32.7**	**97.7**	**15.77**
Pennsylvania	**753**	**98.1**	**61.5**	**8,070**	**.71**	**32.7**	**97.7**	**15.77**
New York	1	100.0	100.0	8,331	.46	31.0	140.0	23.33
Pennsylvania	752	98.1	61.4	8,070	.71	32.7	97.6	15.76
Imported Coal	**1,366**	**92.5**	**34.7**	**12,155**	**.72**	**6.6**	**175.2**	**42.58**
Canada	**34**	**-**	**100.0**	**13,459**	**1.30**	**5.9**	**181.0**	**48.72**
New Hampshire	34	-	100.0	13,459	1.30	5.9	181.0	48.72
Colombia	**1,112**	**97.3**	**29.8**	**11,978**	**.73**	**6.5**	**173.4**	**41.53**
Florida	1,008	100.0	22.5	11,938	.74	6.6	171.6	40.96
Massachusetts	105	71.3	100.0	12,366	.69	6.1	190.2	47.04
Venezuela	**220**	**82.5**	**49.9**	**12,851**	**.58**	**6.8**	**182.6**	**46.93**
Florida	40	100.0	100.0	12,288	.77	11.5	170.7	41.95
Massachusetts	70	44.8	100.0	12,773	.61	7.4	181.0	46.23
New Hampshire	110	100.0	-	13,105	.49	4.8	187.7	49.19
Total	**786,627**	**67.6**	**17.5**	**10,465**	**1.35**	**9.9**	**145.5**	**30.45**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • No coal was received at electric utilities from BOM Districts 5 and 16.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 34. Destination and Origin of Coal Received by Bureau of Mines District and State, 1990

Census Division / State of Destination / BOM District and State of Origin	Quantity (1,000 short tons)	Percent of Receipts		Average Quality			Average Delivered Cost	
		Surface	Spot	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
New England	**6,345**	**11.5**	**24.2**	**13,136**	**1.24**	**7.4**	**180.3**	**47.38**
Connecticut	**954**	**-**	**10.7**	**13,233**	**.54**	**6.4**	**212.9**	**56.35**
District No 8 Kentucky	954	-	10.7	13,233	.54	6.4	212.9	56.35
Massachusetts	**4,120**	**15.0**	**29.9**	**13,062**	**1.23**	**7.9**	**173.4**	**45.30**
District No 1 Maryland	40	-	100.0	13,684	1.02	6.6	185.2	50.69
District No 1 Pennsylvania	222	15.4	23.5	13,018	1.41	9.4	167.2	43.53
District No 1 West Virginia	426	-	-	13,061	1.42	9.2	164.4	42.95
District No 2 Pennsylvania	656	-	90.9	13,073	1.40	7.3	176.4	46.11
District No 3 West Virginia	873	16.0	2.5	13,023	1.21	8.1	167.1	43.53
District No 7 Virginia	40	-	-	12,837	1.19	9.2	167.7	43.06
District No 7 West Virginia	46	15.5	100.0	13,581	.68	6.3	182.9	49.68
District No 8 Kentucky	49	85.5	100.0	12,598	.94	8.7	179.9	45.33
District No 8 Virginia	1,470	19.7	8.9	13,123	1.19	7.7	176.0	46.19
District No 8 West Virginia	123	-	100.0	13,268	1.28	6.4	186.3	49.43
Imported Coal Columbia S.A.	105	71.3	100.0	12,366	.69	6.1	190.2	47.04
Imported Coal Venezuela S.A.	70	44.8	100.0	12,773	.61	7.4	181.0	46.23
New Hampshire	**1,271**	**8.9**	**15.8**	**13,303**	**1.81**	**6.7**	**178.1**	**47.39**
District No 2 Pennsylvania	295	-	-	13,290	1.36	6.4	179.1	47.60
District No 3 West Virginia	660	-	19.3	13,385	2.41	7.3	172.9	46.28
District No 6 West Virginia	38	-	-	13,401	2.66	6.1	173.5	46.50
District No 8 Kentucky	17	16.7	100.0	12,968	.88	6.6	201.2	52.20
District No 8 West Virginia	117	-	19.1	13,030	.85	7.1	194.4	50.67
Imported Coal Canada	34	-	100.0	13,459	1.30	5.9	181.0	48.72
Imported Coal Venezuela S.A.	110	100.0	-	13,105	.49	4.8	187.7	49.19
Mid Atlantic	**58,200**	**38.7**	**23.0**	**12,409**	**2.05**	**12.4**	**155.4**	**38.56**
New Jersey	**2,835**	**25.5**	**12.1**	**13,429**	**1.16**	**7.4**	**180.1**	**48.37**
District No 1 Pennsylvania	19	100.0	100.0	13,133	.84	7.9	183.0	48.06
District No 2 Pennsylvania	7	100.0	100.0	12,604	2.32	8.3	205.4	51.78
District No 3 West Virginia	1,488	38.8	7.9	13,084	1.47	8.9	180.8	47.32
District No 4 Ohio	14	100.0	100.0	12,533	2.07	8.9	202.7	50.82
District No 8 Kentucky	47	36.7	100.0	13,051	.75	7.6	190.1	49.61
District No 8 Virginia	963	4.8	2.8	14,108	.80	4.7	177.8	50.16
District No 8 West Virginia	296	13.6	37.1	13,098	.80	8.0	181.3	47.50
New York	**10,568**	**34.6**	**33.0**	**12,846**	**1.84**	**9.1**	**161.3**	**41.45**
District No 1 Maryland	26	100.0	100.0	10,641	1.46	22.6	169.1	36.00
District No 1 Pennsylvania	2,984	91.0	70.1	12,127	1.82	12.9	156.0	37.83
District No 2 Pennsylvania	2,428	33.2	30.0	13,069	1.84	7.3	155.7	40.70
District No 3 West Virginia	3,449	1.8	11.0	13,219	2.45	7.7	147.0	38.88
District No 4 Ohio	59	83.6	100.0	12,584	1.88	9.2	161.6	40.66
District No 8 Kentucky	659	-	5.8	13,290	.52	6.9	211.2	56.13
District No 8 West Virginia	962	-	17.1	12,945	.61	8.1	208.4	53.95
Anthracite Coal Pennsylvania	1	100.0	100.0	8,331	.46	31.0	140.0	23.33
Pennsylvania	**44,796**	**40.4**	**21.3**	**12,241**	**2.16**	**13.5**	**152.2**	**37.25**
District No 1 Pennsylvania	26,735	48.3	22.8	12,219	1.84	14.6	156.6	38.27
District No 2 Pennsylvania	5,807	44.0	44.9	12,522	1.92	10.6	145.7	36.50
District No 3 West Virginia	5,736	12.7	5.7	12,757	2.11	10.1	144.1	36.77
District No 4 Ohio	1,768	42.6	3.5	12,082	4.05	11.8	150.6	36.40
District No 6 West Virginia	3,948	10.9	-	12,088	4.18	11.9	151.2	36.56
District No 8 Kentucky	50	-	-	12,710	1.26	8.7	177.7	45.16
Anthracite Coal Pennsylvania	752	98.1	61.4	8,070	.71	32.7	97.6	15.76
East North Central	**174,585**	**68.7**	**23.5**	**10,988**	**1.82**	**8.9**	**150.9**	**33.17**
Illinois	**26,456**	**55.4**	**14.8**	**10,789**	**2.07**	**8.8**	**175.1**	**37.79**
District No 8 Kentucky	1,436	16.0	36.0	13,199	.67	6.2	172.3	45.48
District No 8 Tennessee	155	-	-	13,205	.77	6.8	168.8	44.58
District No 8 West Virginia	258	48.5	79.1	12,481	.66	10.0	154.7	38.63
District No 9 Kentucky	757	94.7	100.0	11,576	1.73	8.2	120.5	27.90
District No 10 Illinois	15,573	34.8	9.8	10,919	2.97	9.8	146.1	31.90
District No 11 Indiana	1,919	98.4	28.4	10,938	1.74	9.1	125.0	27.35
District No 17 Colorado	11	-	100.0	11,027	.44	11.2	156.3	34.47
District No 17 New Mexico	222	66.7	50.0	12,377	.56	13.3	165.9	41.06
District No 19 Wyoming	3,400	100.0	7.2	9,527	.42	8.6	288.1	54.90
District No 22 Montana	2,726	100.0	-	9,602	.37	4.1	288.7	55.43
Indiana	**49,194**	**76.2**	**17.8**	**10,562**	**2.06**	**8.6**	**136.2**	**28.78**
District No 4 Ohio	54	100.0	100.0	11,707	2.65	10.8	126.6	29.65
District No 8 Kentucky	945	41.6	17.0	12,588	.71	8.5	213.1	53.65
District No 8 Virginia	56	-	100.0	14,075	.81	4.9	164.4	46.27

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 34. Destination and Origin of Coal Received by Bureau of Mines District and State, 1990 (Continued)

Census Division State of Destination BOM District and State of Origin		Quantity (1,000 short tons)	Percent of Receipts		Average Quality			Average Delivered Cost	
			Surface	Spot	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
East North Central									
Indiana									
District No 8	West Virginia	422	54.7	49.6	12,389	0.68	10.2	193.8	48.02
District No 9	Kentucky	3,647	67.4	6.4	11,493	3.44	11.2	105.3	24.21
District No 10	Illinois	9,698	27.9	14.6	10,877	2.65	10.5	157.0	34.15
District No 11	Indiana	21,471	95.0	20.5	11,092	2.67	9.3	124.5	27.61
District No 17	Colorado	600	-	13.6	11,174	.42	9.5	284.7	63.62
District No 19	Wyoming	11,715	91.0	16.1	8,810	.35	5.0	127.9	22.54
District No 22	Montana	585	100.0	40.5	9,473	.37	4.2	232.9	44.13
Michigan		**29,688**	**76.3**	**22.3**	**11,131**	**.70**	**6.8**	**159.9**	**35.60**
District No 1	Pennsylvania	267	100.0	-	12,730	2.83	9.4	129.1	32.88
District No 2	Pennsylvania	1,664	6.4	31.1	13,007	1.24	7.5	162.5	42.29
District No 3	West Virginia	99	100.0	99.8	12,859	2.73	10.1	142.3	36.61
District No 4	Ohio	178	100.0	19.7	11,893	3.29	10.0	190.0	45.20
District No 7	Virginia	113	33.3	-	13,296	1.44	7.5	185.8	49.42
District No 8	Kentucky	7,242	49.6	28.3	12,681	.93	8.4	177.0	44.88
District No 8	West Virginia	6,043	71.1	25.8	12,660	.82	9.7	169.6	42.94
District No 9	Kentucky	50	100.0	100.0	11,678	2.99	10.1	140.5	32.81
District No 11	Indiana	148	100.0	40.7	10,919	2.69	10.9	158.8	34.67
District No 19	Wyoming	2,379	100.0	72.8	8,794	.30	5.1	110.2	19.39
District No 22	Montana	11,504	100.0	4.5	9,480	.35	4.3	148.0	28.07
Ohio		**51,436**	**58.3**	**33.8**	**11,882**	**2.44**	**11.5**	**151.5**	**36.01**
District No 1	Pennsylvania	280	57.1	99.7	12,798	2.53	10.0	134.7	34.48
District No 2	Pennsylvania	3,002	73.7	35.9	12,540	2.13	10.3	140.3	35.18
District No 3	West Virginia	1,006	46.1	36.6	12,750	1.97	9.6	142.8	36.41
District No 4	Ohio	25,435	60.4	30.3	11,651	3.28	11.3	153.4	35.74
District No 6	West Virginia	4,104	4.8	4.8	12,170	3.50	10.4	140.0	34.07
District No 8	Kentucky	9,396	73.1	52.9	11,859	1.14	12.7	156.1	37.02
District No 8	West Virginia	7,862	56.2	33.3	12,138	.92	12.0	153.8	37.33
District No 9	Kentucky	266	91.8	29.9	11,373	2.39	9.8	136.2	30.97
District No 10	Illinois	24	100.0	100.0	11,420	2.93	11.3	116.7	26.65
District No 11	Indiana	62	100.0	100.0	10,895	3.16	9.8	109.4	23.84
Wisconsin		**17,811**	**84.7**	**24.6**	**9,642**	**.81**	**6.3**	**135.8**	**26.18**
District No 2	Pennsylvania	1,760	-	-	13,249	1.71	6.9	156.7	41.53
District No 3	West Virginia	81	-	100.0	13,428	2.18	7.4	161.6	43.40
District No 7	Virginia	59	-	100.0	13,988	.79	4.9	173.3	48.47
District No 8	Kentucky	196	65.9	79.9	12,894	.84	8.1	177.9	45.87
District No 8	West Virginia	55	47.9	100.0	12,223	.69	10.6	170.2	41.60
District No 10	Illinois	1,136	36.6	20.7	11,527	2.01	8.1	144.2	33.25
District No 11	Indiana	1,893	100.0	1.0	11,198	1.97	9.0	193.2	43.28
District No 17	New Mexico	43	67.0	100.0	12,707	.49	10.1	174.1	44.25
District No 19	Wyoming	10,605	100.0	31.3	8,570	.35	5.2	109.1	18.70
District No 22	Montana	1,983	100.0	21.2	8,864	.62	7.9	158.3	28.06
West North Central		**103,252**	**92.4**	**15.7**	**8,701**	**.96**	**7.4**	**113.0**	**19.66**
Iowa		**15,639**	**97.2**	**33.7**	**8,892**	**.70**	**6.0**	**111.8**	**19.89**
District No 9	Kentucky	29	100.0	100.0	11,218	3.09	11.2	133.2	29.88
District No 10	Illinois	1,159	67.9	8.5	11,146	2.76	8.4	167.6	37.37
District No 11	Indiana	1,078	93.9	29.4	11,016	2.47	9.9	135.0	29.74
District No 12	Iowa	66	100.0	-	10,128	3.33	11.8	163.7	33.17
District No 19	Wyoming	13,306	100.0	36.3	8,512	.36	5.4	102.7	17.48
Kansas		**15,772**	**97.1**	**16.7**	**8,948**	**.58**	**5.8**	**124.2**	**22.23**
District No 10	Illinois	1,223	63.7	80.8	11,251	2.82	9.6	149.0	33.54
District No 15	Kansas	244	100.0	100.0	12,062	2.92	11.7	120.9	29.17
District No 17	Colorado	178	94.2	5.8	11,817	.39	16.6	118.5	28.00
District No 19	Wyoming	14,126	100.0	9.9	8,659	.35	5.2	121.6	21.06
Minnesota		**16,559**	**99.6**	**6.4**	**8,788**	**.51**	**7.6**	**125.2**	**22.00**
District No 2	Pennsylvania	3	-	-	13,326	1.36	5.9	175.8	46.85
District No 8	Kentucky	8	6.8	43.4	12,105	1.10	9.8	188.5	45.65
District No 8	West Virginia	2	33.3	-	12,482	1.19	11.5	169.3	42.26
District No 10	Illinois	51	-	-	12,126	1.62	6.9	178.4	43.26
District No 11	Indiana	69	100.0	87.5	10,968	1.96	9.5	156.3	34.29
District No 19	Wyoming	7,116	100.0	.6	8,827	.27	4.9	115.6	20.41
District No 21	North Dakota	1	100.0	-	6,978	.61	7.0	174.4	24.34
District No 22	Montana	9,309	100.0	10.2	8,720	.67	9.6	131.8	22.98

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 34. Destination and Origin of Coal Received by Bureau of Mines District and State, 1990 (Continued)

Census Division State of Destination BOM District and State of Origin	Quantity (1,000 short tons)	Percent of Receipts		Average Quality			Average Delivered Cost	
		Surface	Spot	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
West North Central								
Missouri	**24,351**	**71.8**	**22.2**	**10,400**	**2.01**	**8.3**	**134.8**	**28.03**
District No 4 Ohio	24	-	100.0	11,900	2.50	12.5	171.4	40.79
District No 8 Kentucky	23	-	100.0	14,128	.63	5.6	212.8	60.12
District No 9 Kentucky	1,043	70.7	-	11,316	2.99	10.7	119.6	27.06
District No 10 Illinois	12,410	50.4	17.2	11,256	2.51	9.5	150.9	33.98
District No 11 Indiana	115	100.0	-	11,117	3.23	9.4	121.8	27.07
District No 15 Kansas	405	100.0	92.6	12,081	3.27	12.2	124.2	30.01
District No 15 Missouri	2,343	100.0	2.4	10,570	4.18	10.1	150.8	31.87
District No 15 Oklahoma	36	100.0	-	11,844	4.31	13.9	138.3	32.77
District No 17 Colorado	292	-	-	11,750	.47	9.6	159.7	37.52
District No 17 New Mexico	18	-	100.0	13,026	.44	9.2	134.7	35.10
District No 19 Wyoming	7,641	99.5	36.2	8,652	.37	5.3	96.5	16.70
Nebraska	**7,940**	**99.9**	**22.6**	**8,561**	**.35**	**5.0**	**75.2**	**12.88**
District No 19 Wyoming	7,940	99.9	22.6	8,561	.35	5.0	75.2	12.88
North Dakota	**20,915**	**100.0**	**-**	**6,636**	**.81**	**9.3**	**68.6**	**9.10**
District No 21 North Dakota	20,915	100.0	-	6,636	.81	9.3	68.6	9.10
South Dakota	**2,078**	**100.0**	**.5**	**6,096**	**.90**	**8.4**	**114.6**	**13.97**
District No 19 Wyoming	11	100.0	100.0	8,849	.36	5.2	113.7	20.13
District No 21 North Dakota	2,067	100.0	-	6,081	.90	8.5	114.6	13.93
South Atlantic	**134,943**	**35.8**	**24.7**	**12,395**	**1.52**	**10.0**	**168.9**	**41.86**
Delaware	**2,192**	**12.4**	**25.7**	**13,035**	**.97**	**8.7**	**181.5**	**47.31**
District No 1 Maryland	21	-	-	12,865	1.43	12.2	141.5	36.41
District No 1 Pennsylvania	393	5.1	67.6	12,934	1.34	9.5	162.8	42.10
District No 2 Pennsylvania	29	-	100.0	13,372	1.21	5.8	163.0	43.59
District No 3 West Virginia	826	13.6	3.3	13,233	1.00	8.4	187.5	49.61
District No 7 West Virginia	12	29.2	48.9	13,067	.72	6.3	202.1	52.83
District No 8 Kentucky	117	2.4	85.8	12,837	.67	7.2	193.9	49.79
District No 8 Virginia	227	.0	48.3	13,180	.93	8.3	195.0	51.41
District No 8 West Virginia	566	23.3	4.4	12,788	.70	9.2	179.4	45.89
Florida	**24,288**	**34.0**	**19.4**	**12,364**	**1.73**	**8.4**	**184.9**	**45.72**
District No 3 West Virginia	556	6.5	18.8	13,277	2.20	7.1	190.7	50.63
District No 7 Virginia	90	-	100.0	14,040	.83	4.6	161.4	45.32
District No 8 Kentucky	10,087	39.9	13.7	12,718	.96	8.2	184.3	46.87
District No 8 Tennessee	126	100.0	-	12,780	1.11	6.6	215.2	55.00
District No 8 Virginia	879	-	-	12,389	.71	9.2	245.2	60.75
District No 8 West Virginia	1,609	52.2	10.4	12,425	.75	10.8	181.7	45.14
District No 9 Kentucky	5,249	34.2	41.4	12,277	2.90	8.6	166.0	40.75
District No 10 Illinois	4,212	-	2.1	11,648	2.81	8.5	209.0	48.69
District No 11 Indiana	431	87.6	100.0	11,226	3.21	9.1	107.8	24.20
Imported Coal Columbia S.A.	1,008	100.0	22.5	11,938	.74	6.6	171.6	40.96
Imported Coal Venezuela S.A.	40	100.0	100.0	12,288	.77	11.5	170.7	41.95
Georgia	**27,888**	**46.9**	**31.1**	**11,893**	**1.63**	**9.8**	**178.6**	**42.48**
District No 4 Ohio	46	100.0	100.0	11,925	2.72	12.5	142.1	33.88
District No 8 Kentucky	12,616	61.3	31.0	12,268	1.37	10.7	170.8	41.91
District No 8 Tennessee	1,269	7.8	58.2	12,783	1.41	8.7	180.5	46.14
District No 8 Virginia	3,339	43.5	26.9	12,958	1.37	9.6	173.6	45.00
District No 8 West Virginia	1,497	.8	1.4	12,102	.67	11.4	247.3	59.86
District No 9 Kentucky	1,842	78.5	24.8	11,827	2.90	10.3	160.0	37.85
District No 10 Illinois	4,881	-	4.5	11,355	2.87	9.2	197.9	44.95
District No 13 Alabama	239	57.6	100.0	12,127	2.03	11.9	155.1	37.61
District No 19 Wyoming	2,159	100.0	100.0	8,633	.31	5.2	155.2	26.80
Maryland	**10,002**	**56.3**	**28.6**	**12,734**	**1.44**	**10.5**	**164.7**	**41.96**
District No 1 Maryland	1,732	47.4	54.4	12,826	1.58	11.2	171.6	44.02
District No 1 Pennsylvania	2,548	100.0	8.4	12,483	1.83	12.4	179.3	44.75
District No 1 West Virginia	595	-	49.5	12,856	1.62	10.3	164.3	42.24
District No 2 Pennsylvania	30	23.3	100.0	13,086	2.29	8.1	162.4	42.51
District No 3 West Virginia	3,305	35.0	33.0	12,853	1.43	9.3	154.8	39.80
District No 4 Ohio	7	-	100.0	12,750	2.27	6.9	165.5	42.20
District No 7 Virginia	21	-	100.0	13,980	.66	5.6	179.3	50.13
District No 8 Kentucky	407	90.2	20.1	12,942	.73	7.9	159.6	41.30
District No 8 West Virginia	1,356	53.9	13.1	12,658	.69	10.0	155.0	39.24
North Carolina	**19,606**	**42.1**	**16.1**	**12,544**	**.96**	**9.9**	**178.0**	**44.64**
District No 8 Kentucky	9,670	45.3	20.1	12,551	.99	8.8	182.7	45.88
District No 8 Virginia	4,345	58.6	2.6	12,768	1.08	10.5	168.5	43.03
District No 8 West Virginia	5,591	23.5	19.8	12,357	.80	11.3	177.1	43.77

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 34. Destination and Origin of Coal Received by Bureau of Mines District and State, 1990 (Continued)

Census Division / State of Destination / BOM District and State of Origin	Quantity (1,000 short tons)	Percent of Receipts		Average Quality			Average Delivered Cost	
		Surface	Spot	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
South Atlantic								
South Carolina	**9,388**	**17.6**	**26.8**	**12,655**	**1.19**	**9.2**	**172.0**	**43.54**
District No 8 Kentucky	8,145	11.2	27.5	12,597	1.17	9.3	173.5	43.71
District No 8 Tennessee	212	-	100.0	12,613	1.47	8.4	163.5	41.25
District No 8 Virginia	993	73.2	5.5	13,142	1.31	8.4	161.8	42.53
District No 8 West Virginia	38	19.9	33.4	12,636	1.02	11.9	180.8	45.70
Virginia	**8,488**	**33.7**	**32.3**	**12,714**	**.96**	**9.8**	**154.5**	**39.29**
District No 3 West Virginia	21	-	100.0	13,400	2.30	7.5	166.8	44.71
District No 7 Virginia	283	14.4	-	12,396	.80	11.5	201.4	49.92
District No 8 Kentucky	2,701	49.2	36.7	12,697	1.05	8.6	157.0	39.87
District No 8 Virginia	3,205	28.6	30.8	12,744	.92	11.0	148.8	37.92
District No 8 West Virginia	2,278	25.0	32.5	12,725	.94	9.5	153.9	39.17
West Virginia	**33,092**	**25.1**	**24.5**	**12,452**	**1.89**	**11.6**	**147.2**	**36.66**
District No 1 Maryland	1,185	41.1	41.1	12,302	1.69	14.7	123.1	30.28
District No 1 Pennsylvania	18	100.0	100.0	11,543	1.84	16.4	123.6	28.53
District No 1 West Virginia	3,202	26.1	13.8	12,456	1.76	13.2	154.8	38.56
District No 2 Pennsylvania	576	13.7	71.2	13,140	2.16	7.5	113.4	29.79
District No 3 West Virginia	12,171	12.8	13.6	12,553	2.38	11.4	144.6	36.30
District No 4 Ohio	1,660	11.0	42.0	12,357	4.08	10.3	96.1	23.75
District No 6 West Virginia	1,656	-	7.7	12,142	4.33	13.2	137.6	33.42
District No 8 Kentucky	753	81.2	19.0	12,357	.93	9.1	181.1	44.75
District No 8 West Virginia	11,846	38.3	34.8	12,393	.84	11.2	158.3	39.25
District No 9 Kentucky	25	-	-	11,935	3.47	12.7	129.9	31.01
East South Central	**82,726**	**48.9**	**24.4**	**11,855**	**2.10**	**11.1**	**143.3**	**33.98**
Alabama	**22,208**	**44.9**	**23.3**	**12,094**	**1.51**	**11.7**	**184.3**	**44.58**
District No 4 Ohio	607	95.9	4.1	11,601	2.28	12.1	116.8	27.09
District No 7 West Virginia	25	100.0	100.0	12,979	.83	9.7	142.9	37.09
District No 8 Kentucky	1,351	31.2	52.1	12,535	.98	9.1	143.6	35.99
District No 8 West Virginia	69	6.3	6.3	11,768	.81	12.9	136.5	32.13
District No 9 Kentucky	2,064	21.1	59.8	11,759	3.03	10.4	129.2	30.38
District No 10 Illinois	463	-	100.0	11,485	2.28	8.0	112.8	25.90
District No 11 Indiana	459	25.0	100.0	11,399	2.33	8.0	117.0	26.67
District No 13 Alabama	16,144	48.8	8.3	12,191	1.33	12.4	204.2	49.79
District No 13 Tennessee	809	34.9	88.0	12,311	.81	12.4	124.5	30.65
District No 19 Wyoming	216	100.0	100.0	8,657	.38	5.2	169.7	29.39
Kentucky	**35,151**	**60.8**	**27.0**	**11,558**	**2.59**	**12.1**	**119.3**	**27.58**
District No 2 Pennsylvania	12	63.6	87.6	11,887	2.43	13.6	112.7	26.80
District No 4 Ohio	251	90.7	48.2	11,372	2.76	12.4	144.2	32.80
District No 6 West Virginia	3	100.0	100.0	11,526	2.58	13.0	126.5	29.16
District No 7 Virginia	60	-	-	13,986	.81	5.5	158.3	44.29
District No 7 West Virginia	73	100.0	100.0	11,924	.68	11.6	133.0	31.71
District No 8 Kentucky	9,471	73.5	41.2	12,187	1.03	10.8	131.7	32.09
District No 8 Tennessee	626	3.4	13.2	12,603	2.61	11.2	119.6	30.14
District No 8 West Virginia	2,996	63.5	56.9	12,235	.77	11.2	129.3	31.63
District No 9 Kentucky	18,830	50.1	13.9	11,185	3.70	13.4	111.3	24.91
District No 10 Illinois	91	11.4	11.4	11,538	1.84	8.8	135.0	31.15
District No 11 Indiana	2,525	100.0	35.6	11,122	2.67	9.4	110.5	24.57
District No 19 Wyoming	213	100.0	34.8	8,609	.35	5.4	123.0	21.18
Mississippi	**3,921**	**16.1**	**23.3**	**12,543**	**1.64**	**7.8**	**165.4**	**41.49**
District No 8 Kentucky	2,138	-	6.6	12,765	.84	7.8	179.0	45.69
District No 9 Kentucky	629	17.0	100.0	11,890	2.61	6.9	144.4	34.35
District No 10 Illinois	1,131	44.4	10.8	12,506	2.55	8.4	151.1	37.79
District No 11 Indiana	23	100.0	100.0	11,616	4.84	8.3	126.0	29.27
Tennessee	**21,446**	**39.7**	**21.5**	**11,966**	**2.00**	**9.5**	**134.2**	**32.12**
District No 8 Kentucky	6,720	45.8	21.5	12,063	1.26	11.1	151.6	36.58
District No 8 Tennessee	1,421	2.1	19.9	12,591	1.40	9.8	121.3	30.53
District No 8 Virginia	1,223	-	-	13,060	1.79	8.6	131.2	34.27
District No 8 West Virginia	10	-	-	12,319	.70	9.1	157.8	38.88
District No 9 Kentucky	9,186	58.8	6.4	11,763	2.64	8.7	127.6	30.02
District No 10 Illinois	2,182	-	72.6	11,646	2.09	8.3	121.4	28.28
District No 11 Indiana	704	-	100.0	11,527	2.02	8.1	122.7	28.29
West South Central	**120,651**	**99.3**	**3.3**	**7,701**	**.65**	**10.0**	**148.8**	**22.91**
Arkansas	**10,939**	**100.0**	**-**	**8,740**	**.34**	**5.3**	**161.1**	**28.17**
District No 19 Wyoming	10,939	100.0	-	8,740	.34	5.3	161.1	28.17

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 34. Destination and Origin of Coal Received by Bureau of Mines District and State, 1990 (Continued)

Census Division State of Destination BOM District and State of Origin	Quantity (1,000 short tons)	Percent of Receipts		Average Quality			Average Delivered Cost	
		Surface	Spot	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
West South Central								
Louisiana	**11,593**	**98.2**	**-**	**8,194**	**0.49**	**7.5**	**169.5**	**27.78**
District No 8 West Virginia	211	-	-	13,189	.67	5.8	204.2	53.86
District No 15 Louisiana	3,186	100.0	-	6,881	.55	12.5	133.5	18.37
District No 19 Wyoming	8,196	100.0	-	8,576	.46	5.6	179.4	30.77
Oklahoma	**14,471**	**100.0**	**9.9**	**8,894**	**.47**	**5.5**	**140.4**	**24.98**
District No 14 Oklahoma	148	100.0	100.0	12,831	1.32	9.9	144.9	37.18
District No 15 Oklahoma	733	100.0	68.6	12,361	1.74	9.4	138.1	34.14
District No 19 Wyoming	13,590	100.0	5.7	8,664	.39	5.2	140.5	24.35
Texas	**83,649**	**99.3**	**3.1**	**7,291**	**.74**	**11.8**	**145.3**	**21.19**
District No 15 Texas	49,086	100.0	.2	6,332	1.00	16.4	108.4	13.73
District No 17 Colorado	1,829	66.2	33.8	10,588	.38	6.3	206.0	43.63
District No 19 Wyoming	32,734	100.0	5.8	8,544	.38	5.2	182.1	31.12
Mountain	**99,912**	**78.8**	**8.0**	**9,792**	**.55**	**11.0**	**113.3**	**22.19**
Arizona	**15,385**	**93.6**	**.2**	**10,482**	**.49**	**11.9**	**143.0**	**29.98**
District No 17 Colorado	979	-	-	11,812	.39	16.7	173.7	41.04
District No 17 New Mexico	43	100.0	-	11,952	.53	14.9	159.8	38.19
District No 18 Arizona	7,276	100.0	-	11,047	.48	8.6	100.6	22.23
District No 18 New Mexico	7,076	100.0	.3	9,708	.50	14.7	187.2	36.35
District No 19 Wyoming	11	100.0	100.0	10,510	.42	8.1	186.7	39.24
Colorado	**15,343**	**77.5**	**16.4**	**9,808**	**.38**	**6.9**	**106.1**	**20.81**
District No 17 Colorado	9,985	65.4	25.3	10,517	.41	8.1	106.6	22.43
District No 19 Wyoming	5,358	100.0	-	8,485	.33	4.9	104.8	17.78
Montana	**9,519**	**100.0**	**-**	**8,564**	**.63**	**8.8**	**67.0**	**11.47**
District No 22 Montana	9,519	100.0	-	8,564	.63	8.8	67.0	11.47
Nevada	**7,477**	**63.5**	**.1**	**11,122**	**.53**	**9.8**	**149.1**	**33.16**
District No 18 Arizona	4,171	100.0	-	10,959	.53	10.1	120.6	26.43
District No 19 Wyoming	575	100.0	-	9,650	.43	8.8	202.7	39.11
District No 20 Utah	2,731	-	.3	11,682	.55	9.6	180.5	42.18
New Mexico	**15,241**	**100.0**	**-**	**9,117**	**.79**	**21.8**	**131.8**	**24.03**
District No 18 New Mexico	15,241	100.0	-	9,117	.79	21.8	131.8	24.03
Utah	**14,014**	**-**	**11.7**	**11,483**	**.49**	**10.1**	**116.7**	**26.80**
District No 17 Colorado	1,508	-	-	10,736	.48	8.9	223.3	47.95
District No 20 Utah	12,506	-	13.1	11,573	.50	10.3	104.8	24.25
Wyoming	**22,932**	**100.0**	**16.4**	**8,811**	**.54**	**7.7**	**83.6**	**14.74**
District No 19 Wyoming	22,932	100.0	16.4	8,811	.54	7.7	83.6	14.74
Pacific	**6,012**	**100.0**	**5.9**	**8,169**	**.64**	**13.0**	**149.4**	**24.42**
Oregon	**968**	**100.0**	**-**	**8,348**	**.31**	**4.6**	**107.9**	**18.02**
District No 19 Wyoming	968	100.0	-	8,348	.31	4.6	107.9	18.02
Washington	**5,044**	**100.0**	**7.1**	**8,135**	**.70**	**14.6**	**157.6**	**25.64**
District No 19 Wyoming	348	100.0	100.0	8,554	.30	5.0	127.4	21.80
District No 23 Washington	4,696	100.0	.2	8,104	.73	15.3	160.0	25.93
Total	**786,627**	**67.6**	**17.5**	**10,465**	**1.35**	**9.9**	**145.5**	**30.45**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • No coal was received at electric utilities from BOM Districts 5 and 16.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 35. Origin and Destination of Coal Received by State, 1990

Destination Origin	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Alabama	**22,208**	**12,094**	**1.51**	**11.74**	**184.3**	**44.58**
Alabama	16,144	12,191	1.33	12.39	204.2	49.79
Illinois	463	11,485	2.28	7.97	112.8	25.90
Indiana	459	11,399	2.33	8.03	117.0	26.67
Kentucky	3,416	12,066	2.22	9.85	135.1	32.60
Ohio	607	11,601	2.28	12.11	116.8	27.09
Tennessee	809	12,311	.81	12.38	124.5	30.65
West Virginia	94	12,090	.81	12.03	138.3	33.45
Wyoming	216	8,657	.38	5.21	169.7	29.39
Arizona	**15,385**	**10,482**	**.49**	**11.95**	**143.0**	**29.98**
Arizona	7,276	11,047	.48	8.64	100.6	22.23
Colorado	979	11,812	.39	16.71	173.7	41.04
New Mexico	7,119	9,721	.50	14.68	187.0	36.36
Wyoming	11	10,510	.42	8.10	186.7	39.24
Arkansas	**10,939**	**8,740**	**.34**	**5.26**	**161.1**	**28.17**
Wyoming	10,939	8,740	.34	5.26	161.1	28.17
Colorado	**15,343**	**9,808**	**.38**	**6.95**	**106.1**	**20.81**
Colorado	9,985	10,517	.41	8.07	106.6	22.43
Wyoming	5,358	8,485	.33	4.86	104.8	17.78
Connecticut	**954**	**13,233**	**.54**	**6.36**	**212.9**	**56.35**
Kentucky	954	13,233	.54	6.36	212.9	56.35
Delaware	**2,192**	**13,035**	**.97**	**8.71**	**181.5**	**47.31**
Kentucky	117	12,837	.67	7.25	193.9	49.79
Maryland	21	12,865	1.43	12.20	141.5	36.41
Pennsylvania	423	12,964	1.33	9.26	162.8	42.20
Virginia	227	13,180	.93	8.31	195.0	51.41
West Virginia	1,404	13,052	.88	8.68	184.4	48.14
Florida	**24,288**	**12,364**	**1.73**	**8.44**	**184.9**	**45.72**
Illinois	4,212	11,648	2.81	8.46	209.0	48.69
Indiana	431	11,226	3.21	9.12	107.8	24.20
Kentucky	15,336	12,567	1.62	8.31	178.1	44.77
Tennessee	126	12,780	1.11	6.60	215.2	55.00
Virginia	969	12,543	.72	8.78	236.5	59.32
West Virginia	2,165	12,644	1.13	9.86	184.1	46.55
Imported	1,048	11,951	.74	6.77	171.5	41.00
Georgia	**27,888**	**11,893**	**1.63**	**9.81**	**178.6**	**42.48**
Alabama	239	12,127	2.03	11.89	155.1	37.61
Illinois	4,881	11,355	2.87	9.21	197.9	44.95
Kentucky	14,458	12,212	1.57	10.62	169.5	41.39
Ohio	46	11,925	2.72	12.53	142.1	33.88
Tennessee	1,269	12,783	1.41	8.66	180.5	46.14
Virginia	3,339	12,958	1.37	9.61	173.6	45.00
West Virginia	1,497	12,102	.67	11.45	247.3	59.86
Wyoming	2,159	8,633	.31	5.23	155.2	26.80
Illinois	**26,456**	**10,789**	**2.07**	**8.81**	**175.1**	**37.79**
Colorado	11	11,027	.44	11.20	156.3	34.47
Illinois	15,573	10,919	2.97	9.85	146.1	31.90
Indiana	1,919	10,938	1.74	9.14	125.0	27.35
Kentucky	2,193	12,639	1.04	6.89	155.9	39.41
Montana	2,726	9,602	.37	4.13	288.7	55.43
New Mexico	222	12,377	.56	13.28	165.9	41.06
Tennessee	155	13,205	.77	6.76	168.8	44.58
West Virginia	258	12,481	.66	10.04	154.7	38.63
Wyoming	3,400	9,527	.42	8.56	288.1	54.90
Indiana	**49,194**	**10,562**	**2.06**	**8.58**	**136.2**	**28.78**
Colorado	600	11,174	.42	9.50	284.7	63.62
Illinois	9,698	10,877	2.65	10.49	157.0	34.15
Indiana	21,471	11,092	2.67	9.29	124.5	27.61
Kentucky	4,592	11,719	2.88	10.63	129.1	30.27
Montana	585	9,473	.37	4.17	232.9	44.13

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 35. Origin and Destination of Coal Received by State, 1990—Continued

Destination Origin	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Indiana						
Ohio	54	11,707	2.65	10.82	126.6	29.65
Virginia	56	14,075	.81	4.92	164.4	46.27
West Virginia	422	12,389	.68	10.16	193.8	48.02
Wyoming	11,715	8,810	.35	5.03	127.9	22.54
Iowa	**15,639**	**8,892**	**.70**	**5.98**	**111.8**	**19.89**
Illinois	1,159	11,146	2.76	8.40	167.6	37.37
Indiana	1,078	11,016	2.47	9.85	135.0	29.74
Iowa	66	10,128	3.33	11.76	163.7	33.17
Kentucky	29	11,218	3.09	11.16	133.2	29.88
Wyoming	13,306	8,512	.36	5.42	102.7	17.48
Kansas	**15,772**	**8,948**	**.58**	**5.81**	**124.2**	**22.23**
Colorado	178	11,817	.39	16.56	118.5	28.00
Illinois	1,223	11,251	2.82	9.60	149.0	33.54
Kansas	244	12,062	2.92	11.69	120.9	29.17
Wyoming	14,126	8,659	.35	5.24	121.6	21.06
Kentucky	**35,151**	**11,558**	**2.59**	**12.12**	**119.3**	**27.58**
Illinois	91	11,538	1.84	8.79	135.0	31.15
Indiana	2,525	11,122	2.67	9.41	110.5	24.57
Kentucky	28,301	11,520	2.80	12.55	118.5	27.31
Ohio	251	11,372	2.76	12.41	144.2	32.80
Pennsylvania	12	11,887	2.43	13.64	112.7	26.80
Tennessee	626	12,603	2.61	11.24	119.6	30.14
Virginia	60	13,986	.81	5.53	158.3	44.29
West Virginia	3,073	12,227	.77	11.21	129.4	31.63
Wyoming	213	8,609	.35	5.38	123.0	21.18
Louisiana	**11,593**	**8,194**	**.49**	**7.47**	**169.5**	**27.78**
Louisiana	3,186	6,881	.55	12.50	133.5	18.37
West Virginia	211	13,189	.67	5.83	204.2	53.86
Wyoming	8,196	8,576	.46	5.56	179.4	30.77
Maryland	**10,002**	**12,734**	**1.44**	**10.48**	**164.7**	**41.96**
Kentucky	407	12,942	.73	7.88	159.6	41.30
Maryland	1,732	12,826	1.58	11.17	171.6	44.02
Ohio	7	12,750	2.27	6.90	165.5	42.20
Pennsylvania	2,578	12,490	1.84	12.33	179.1	44.73
Virginia	21	13,980	.66	5.63	179.3	50.13
West Virginia	5,256	12,803	1.26	9.58	156.0	39.93
Massachusetts	**4,120**	**13,062**	**1.23**	**7.89**	**173.4**	**45.30**
Kentucky	49	12,598	.94	8.72	179.9	45.33
Maryland	40	13,684	1.02	6.61	185.2	50.69
Pennsylvania	878	13,059	1.40	7.82	174.1	45.46
Virginia	1,510	13,115	1.19	7.75	175.8	46.11
West Virginia	1,469	13,072	1.26	8.23	168.5	44.05
Imported	175	12,529	.66	6.62	186.4	46.72
Michigan	**29,688**	**11,131**	**.70**	**6.79**	**159.9**	**35.60**
Indiana	148	10,919	2.69	10.93	158.8	34.67
Kentucky	7,293	12,674	.94	8.38	176.7	44.80
Montana	11,504	9,480	.35	4.32	148.0	28.07
Ohio	178	11,893	3.29	9.96	190.0	45.20
Pennsylvania	1,931	12,969	1.46	7.80	158.0	40.98
Virginia	113	13,296	1.44	7.52	185.8	49.42
West Virginia	6,142	12,664	.85	9.68	169.2	42.84
Wyoming	2,379	8,794	.30	5.06	110.2	19.39
Minnesota	**16,559**	**8,788**	**.51**	**7.58**	**125.2**	**22.00**
Illinois	51	12,126	1.62	6.94	178.4	43.26
Indiana	69	10,968	1.96	9.50	156.3	34.29
Kentucky	8	12,105	1.10	9.78	188.5	45.65
Montana	9,309	8,720	.67	9.60	131.8	22.98
North Dakota	1	6,978	.61	7.04	174.4	24.34
Pennsylvania	3	13,326	1.36	5.88	175.8	46.85

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 35. Origin and Destination of Coal Received by State, 1990—Continued

Destination Origin	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Minnesota						
West Virginia	2	12,482	1.19	11.48	169.3	42.26
Wyoming	7,116	8,827	.27	4.92	115.6	20.41
Mississippi	**3,921**	**12,543**	**1.64**	**7.84**	**165.4**	**41.49**
Illinois	1,131	12,506	2.55	8.38	151.1	37.79
Indiana	23	11,616	4.84	8.26	126.0	29.27
Kentucky	2,766	12,566	1.24	7.61	171.5	43.11
Missouri	**24,351**	**10,400**	**2.01**	**8.33**	**134.8**	**28.03**
Colorado	292	11,750	.47	9.60	159.7	37.52
Illinois	12,410	11,256	2.51	9.51	150.9	33.98
Indiana	115	11,117	3.23	9.38	121.8	27.07
Kansas	405	12,081	3.27	12.21	124.2	30.01
Kentucky	1,066	11,377	2.94	10.61	122.0	27.77
Missouri	2,343	10,570	4.18	10.05	150.8	31.87
New Mexico	18	13,026	.44	9.24	134.7	35.10
Ohio	24	11,900	2.50	12.50	171.4	40.79
Oklahoma	36	11,844	4.31	13.87	138.3	32.77
Wyoming	7,641	8,652	.37	5.26	96.5	16.70
Montana	**9,519**	**8,564**	**.63**	**8.84**	**67.0**	**11.47**
Montana	9,519	8,564	.63	8.84	67.0	11.47
Nebraska	**7,940**	**8,561**	**.35**	**5.05**	**75.2**	**12.88**
Wyoming	7,940	8,561	.35	5.05	75.2	12.88
Nevada	**7,477**	**11,122**	**.53**	**9.82**	**149.1**	**33.16**
Arizona	4,171	10,959	.53	10.08	120.6	26.43
Utah	2,731	11,682	.55	9.64	180.5	42.18
Wyoming	575	9,650	.43	8.80	202.7	39.11
New Hampshire	**1,271**	**13,303**	**1.81**	**6.75**	**178.1**	**47.39**
Kentucky	17	12,968	.88	6.60	201.2	52.20
Pennsylvania	295	13,290	1.36	6.38	179.1	47.60
West Virginia	814	13,334	2.20	7.18	175.9	46.92
Imported	144	13,188	.68	5.07	186.1	49.08
New Jersey	**2,835**	**13,429**	**1.16**	**7.36**	**180.1**	**48.37**
Kentucky	47	13,051	.75	7.58	190.1	49.61
Ohio	14	12,533	2.07	8.90	202.7	50.82
Pennsylvania	26	12,991	1.24	8.00	188.8	49.06
Virginia	963	14,108	.80	4.71	177.8	50.16
West Virginia	1,785	13,087	1.35	8.76	180.9	47.35
New Mexico	**15,241**	**9,117**	**.79**	**21.84**	**131.8**	**24.03**
New Mexico	15,241	9,117	.79	21.84	131.8	24.03
New York	**10,568**	**12,846**	**1.84**	**9.13**	**161.3**	**41.45**
Kentucky	659	13,290	.52	6.95	211.2	56.13
Maryland	26	10,641	1.46	22.59	169.1	36.00
Ohio	59	12,584	1.88	9.22	161.6	40.66
Pennsylvania	5,413	12,549	1.83	10.39	155.8	39.11
West Virginia	4,411	13,159	2.05	7.82	160.2	42.16
North Carolina	**19,606**	**12,544**	**.96**	**9.89**	**178.0**	**44.64**
Kentucky	9,670	12,551	.99	8.79	182.7	45.88
Virginia	4,345	12,768	1.08	10.51	168.5	43.03
West Virginia	5,591	12,357	.80	11.33	177.1	43.77
North Dakota	**20,915**	**6,636**	**.81**	**9.26**	**68.6**	**9.10**
North Dakota	20,915	6,636	.81	9.26	68.6	9.10
Ohio	**51,436**	**11,882**	**2.44**	**11.47**	**151.5**	**36.01**
Illinois	24	11,420	2.93	11.28	116.7	26.65
Indiana	62	10,895	3.16	9.77	109.4	23.84
Kentucky	9,662	11,845	1.17	12.58	155.6	36.85
Ohio	25,435	11,651	3.28	11.29	153.4	35.74

See footnotes at end of table.
Source: Federal Energy Regulatory Commission; FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 35. Origin and Destination of Coal Received by State, 1990—Continued

Destination Origin	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Ohio						
Pennsylvania	3,282	12,562	2.17	10.27	139.8	35.12
West Virginia	12,971	12,196	1.82	11.31	148.5	36.23
Oklahoma	**14,471**	**8,894**	**.47**	**5.50**	**140.4**	**24.98**
Oklahoma	880	12,440	1.67	9.45	139.3	34.65
Wyoming	13,590	8,664	.39	5.24	140.5	24.35
Oregon	**968**	**8,348**	**.31**	**4.57**	**107.9**	**18.02**
Wyoming	968	8,348	.31	4.57	107.9	18.02
Pennsylvania	**44,796**	**12,241**	**2.16**	**13.46**	**152.2**	**37.25**
Kentucky	50	12,710	1.26	8.67	177.7	45.16
Ohio	1,768	12,082	4.05	11.78	150.6	36.40
Pennsylvania	33,294	12,178	1.83	14.33	153.8	37.45
West Virginia	9,684	12,484	2.95	10.80	146.9	36.68
South Carolina	**9,388**	**12,655**	**1.19**	**9.21**	**172.0**	**43.54**
Kentucky	8,145	12,597	1.17	9.31	173.5	43.71
Tennessee	212	12,613	1.47	8.39	163.5	41.25
Virginia	993	13,142	1.31	8.40	161.8	42.53
West Virginia	38	12,636	1.02	11.93	180.8	45.70
South Dakota	**2,078**	**6,096**	**.90**	**8.44**	**114.6**	**13.97**
North Dakota	2,067	6,081	.90	8.46	114.6	13.93
Wyoming	11	8,849	.36	5.20	113.7	20.13
Tennessee	**21,446**	**11,966**	**2.00**	**9.46**	**134.2**	**32.12**
Illinois	2,182	11,646	2.09	8.26	121.4	28.28
Indiana	704	11,527	2.02	8.06	122.7	28.29
Kentucky	15,907	11,890	2.05	9.73	137.9	32.79
Tennessee	1,421	12,591	1.40	9.75	121.3	30.53
Virginia	1,223	13,060	1.79	8.58	131.2	34.27
West Virginia	10	12,319	.70	9.10	157.8	38.88
Texas	**83,649**	**7,291**	**.74**	**11.80**	**145.3**	**21.19**
Colorado	1,829	10,588	.38	6.30	206.0	43.63
Texas	49,086	6,332	1.00	16.39	108.4	13.73
Wyoming	32,734	8,544	.38	5.23	182.1	31.12
Utah	**14,014**	**11,483**	**.49**	**10.13**	**116.7**	**26.80**
Colorado	1,508	10,736	.48	8.86	223.3	47.95
Utah	12,506	11,573	.50	10.28	104.8	24.25
Virginia	**8,488**	**12,714**	**.96**	**9.84**	**154.5**	**39.29**
Kentucky	2,701	12,697	1.05	8.55	157.0	39.87
Virginia	3,488	12,716	.91	11.06	152.9	38.89
West Virginia	2,300	12,731	.95	9.52	154.1	39.23
Washington	**5,044**	**8,135**	**.70**	**14.62**	**157.6**	**25.64**
Washington	4,696	8,104	.73	15.33	160.0	25.93
Wyoming	348	8,554	.30	4.98	127.4	21.80
West Virginia	**33,092**	**12,452**	**1.89**	**11.55**	**147.2**	**36.66**
Kentucky	778	12,344	1.01	9.22	179.5	44.32
Maryland	1,185	12,302	1.69	14.74	123.1	30.28
Ohio	1,660	12,357	4.08	10.33	96.1	23.75
Pennsylvania	594	13,092	2.15	7.79	113.6	29.75
West Virginia	28,875	12,453	1.79	11.63	151.0	37.60
Wisconsin	**17,811**	**9,642**	**.81**	**6.33**	**135.8**	**26.18**
Illinois	1,136	11,527	2.01	8.13	144.2	33.25
Indiana	1,893	11,198	1.97	9.04	193.2	43.28
Kentucky	196	12,894	.84	8.09	177.9	45.87
Montana	1,983	8,864	.62	7.90	158.3	28.06
New Mexico	43	12,707	.49	10.11	174.1	44.25
Pennsylvania	1,760	13,249	1.71	6.90	156.7	41.53
Virginia	59	13,988	.79	4.87	173.3	48.47

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 35. Origin and Destination of Coal Received by State, 1990—Continued

Destination Origin	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Wisconsin						
West Virginia	136	12,940	1.58	8.71	164.9	42.68
Wyoming	10,605	8,570	.35	5.20	109.1	18.70
Wyoming	**22,932**	**8,811**	**.54**	**7.69**	**83.6**	**14.74**
Wyoming	22,932	8,811	.54	7.69	83.6	14.74
Total	**786,627**	**10,465**	**1.35**	**9.85**	**145.5**	**30.45**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Alabama Electric Coop Inc — Lowman	**1,228**	**11,824**	**1.47**	**13.70**	**162.7**	**38.47**
Alabama	845	11,864	1.47	13.58	166.1	39.40
Fayette	152	12,181	1.84	11.69	148.2	36.11
Marion	544	11,829	1.36	13.78	178.8	42.30
Tuscaloosa	100	11,710	1.49	15.29	134.4	31.47
Walker	48	11,584	1.42	13.84	145.0	33.59
Kentucky	383	11,737	1.47	13.94	155.1	36.41
Union	250	11,895	1.45	13.95	146.8	34.93
Whitley	133	11,439	1.52	13.92	171.4	39.20
Alabama Power Co — Barry	**800**	**12,512**	**.94**	**11.49**	**207.7**	**51.97**
Alabama	800	12,512	.94	11.49	207.7	51.97
Tuscaloosa	500	12,679	.96	11.04	235.5	59.72
Walker	300	12,234	.91	12.24	159.5	39.03
Alabama Power Co — Gadsden	**112**	**12,674**	**1.88**	**12.08**	**206.1**	**52.24**
Alabama	112	12,674	1.88	12.08	206.1	52.24
Jefferson	112	12,674	1.88	12.08	206.1	52.24
Alabama Power Co — Gaston	**3,817**	**12,256**	**2.14**	**12.33**	**188.1**	**46.10**
Alabama	3,812	12,255	2.14	12.33	188.1	46.11
Fayette	1,760	12,043	2.17	12.61	193.7	46.65
Jefferson	1,410	12,504	2.12	11.98	199.9	49.99
Tuscaloosa	153	12,080	2.12	12.17	126.8	30.65
Walker	489	12,359	2.12	12.38	153.0	37.82
West Virginia	4	12,634	.65	7.82	151.1	38.18
Logan	2	13,325	.66	3.90	105.8	28.20
Mingo	2	11,895	.64	12.00	205.3	48.84
Alabama Power Co — Gorgas 2 and 3	**5,539**	**11,911**	**1.37**	**13.44**	**175.7**	**41.87**
Alabama	5,539	11,911	1.37	13.44	175.7	41.87
Blount	82	11,970	2.39	13.18	115.9	27.75
Jefferson	1,071	12,357	2.04	12.36	201.0	49.66
Marion	60	11,608	1.99	15.25	112.3	26.07
Tuscaloosa	38	11,428	1.01	19.52	173.5	39.66
Walker	4,085	11,785	1.17	13.78	172.2	40.59
Winston	202	12,248	1.49	10.64	151.8	37.20
Alabama Power Cc — Greene	**857**	**12,568**	**1.44**	**11.16**	**211.8**	**53.24**
Alabama	832	12,556	1.46	11.20	213.9	53.72
Tuscaloosa	832	12,556	1.46	11.20	213.9	53.72
West Virginia	25	12,979	.83	9.70	142.9	37.09
Fayette	25	12,979	.83	9.70	142.9	37.09
Alabama Power Co — James Miller	**4,417**	**12,237**	**.55**	**10.95**	**256.2**	**62.70**
Alabama	4,201	12,421	.56	11.25	259.3	64.41
Jefferson	2,448	12,341	.50	11.80	237.6	58.65
Tuscaloosa	730	12,397	.64	11.77	238.3	59.09
Walker	1,024	12,629	.64	9.54	324.6	81.98
Wyoming	216	8,657	.38	5.21	169.7	29.39
Campbell	216	8,657	.38	5.21	169.7	29.39
Ames City of — Ames	**193**	**8,801**	**.22**	**4.55**	**126.5**	**22.26**
Wyoming	193	8,801	.22	4.55	126.5	22.26
Campbell	193	8,801	.22	4.55	126.5	22.26
Appalachian Power Co — Amos	**6,222**	**12,417**	**.80**	**10.97**	**166.9**	**41.46**
West Virginia	6,222	12,417	.80	10.97	166.9	41.46
Boone	6,033	12,424	.80	10.93	167.3	41.57
Logan	189	12,193	.71	12.16	156.1	38.07
Appalachian Power Co — Clinch River	**1,614**	**12,452**	**.77**	**13.49**	**137.6**	**34.28**
Virginia	1,614	12,452	.77	13.49	137.6	34.28
Buchanan	2	11,094	.83	15.70	129.0	28.62
Dickenson	2	11,094	.83	15.70	129.0	28.62
Russell	1,526	12,434	.77	13.68	138.4	34.41
Wise	83	12,859	.88	9.83	125.0	32.14
Appalachian Power Co — Glen Lyn	**539**	**12,651**	**.81**	**10.72**	**170.1**	**43.04**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Appalachian Power Co Glen Lyn						
Kentucky	14	13,004	0.88	9.76	139.3	36.24
Pike	14	13,004	.88	9.76	139.3	36.24
Virginia	475	12,618	.82	10.83	175.9	44.40
Buchanan	274	12,379	.79	11.60	203.2	50.30
Wise	201	12,943	.86	9.79	140.4	36.34
West Virginia	50	12,865	.70	9.88	124.3	31.98
Fayette	2	12,207	.79	10.80	138.8	33.89
Mingo	48	12,889	.70	9.84	123.8	31.91
Appalachian Power Co Kanawha River	**497**	**12,539**	**.77**	**11.58**	**158.0**	**39.62**
West Virginia	497	12,539	.77	11.58	158.0	39.62
Clay	19	12,109	.84	12.33	103.9	25.17
Fayette	418	12,628	.77	11.43	167.4	42.27
Kanawha	41	12,030	.78	12.39	108.3	26.06
Nicholas	19	12,109	.84	12.33	103.9	25.17
Appalachian Power Co Mountaineer	**2,887**	**12,402**	**.68**	**10.95**	**155.2**	**38.50**
Kentucky	109	12,332	.67	10.15	137.1	33.82
Floyd	34	11,612	.64	13.02	139.9	32.48
Letcher	61	12,801	.70	8.26	139.7	35.75
Pike	14	12,034	.64	11.45	119.5	28.76
West Virginia	2,778	12,405	.69	10.99	155.9	38.68
Boone	1,966	12,440	.70	11.06	167.1	41.58
Clay	5	12,073	.69	10.83	133.5	32.23
Fayette	38	12,374	.64	11.01	119.8	29.65
Kanawha	222	12,194	.65	12.30	126.1	30.76
Logan	387	12,464	.65	10.16	132.6	33.05
Nicholas	73	12,127	.65	10.99	126.5	30.68
Wayne	87	12,155	.61	9.51	121.8	29.62
Arizona Electric Pwr Coop Inc Apache	**1,074**	**11,741**	**.41**	**16.30**	**172.3**	**40.46**
Colorado	979	11,812	.39	16.71	173.7	41.04
Las Animas	979	11,812	.39	16.71	173.7	41.04
New Mexico	84	11,064	.61	12.58	153.0	33.86
Colfax	43	11,952	.53	14.88	159.8	38.19
Mckinley	41	10,117	.69	10.13	144.5	29.24
Wyoming	11	10,510	.42	8.10	186.7	39.24
Carbon	11	10,510	.42	8.10	186.7	39.24
Arizona Public Service Co Cholla	**3,045**	**9,861**	**.46**	**13.97**	**166.3**	**32.80**
New Mexico	3,045	9,861	.46	13.97	166.3	32.80
Mckinley	3,045	9,861	.46	13.97	166.3	32.80
Arizona Public Service Co Four Corners	**8,722**	**8,764**	**.80**	**22.17**	**104.2**	**18.26**
New Mexico	8,722	8,764	.80	22.17	104.2	18.26
San Juan	8,722	8,764	.80	22.17	104.2	18.26
Arkansas Power & Light Co Independence	**4,516**	**8,818**	**.21**	**4.89**	**159.9**	**28.19**
Wyoming	4,516	8,818	.21	4.89	159.9	28.19
Campbell	4,516	8,818	.21	4.89	159.9	28.19
Arkansas Power & Light Co Whitebluff	**4,699**	**8,795**	**.47**	**5.80**	**165.5**	**29.11**
Wyoming	4,699	8,795	.47	5.80	165.5	29.11
Campbell	4,699	8,795	.47	5.80	165.5	29.11
Associated Electric Coop Inc Hill	**2,287**	**10,560**	**4.19**	**9.98**	**151.3**	**31.96**
Missouri	2,287	10,560	4.19	9.98	151.3	31.96
Randolph	2,287	10,560	4.19	9.98	151.3	31.96
Associated Electric Coop Inc Madrid	**3,449**	**10,757**	**2.88**	**10.26**	**119.5**	**25.70**
Illinois	2,098	10,664	3.04	10.59	119.2	25.42
Randolph	1,852	10,607	3.03	10.63	117.8	24.99
Saline	46	11,468	2.68	11.50	122.1	28.00
White	200	11,012	3.23	10.00	130.9	28.83
Indiana	115	11,117	3.23	9.38	121.8	27.07
Daviess	35	11,084	3.25	9.30	121.3	26.89
Warrick	80	11,131	3.22	9.41	122.0	27.15

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Associated Electric Coop Inc Madrid						
Kentucky	1,043	11,316	2.99	10.72	119.6	27.06
Hopkins	126	11,558	2.73	11.13	126.3	29.20
Muhlenberg	917	11,283	3.03	10.66	118.6	26.76
Wyoming	194	8,539	.31	4.77	121.2	20.69
Campbell	194	8,539	.31	4.77	121.2	20.69
Atlantic City Electric Co England	**569**	**13,106**	**2.57**	**9.66**	**183.0**	**47.97**
Ohio	14	12,533	2.07	8.90	202.7	50.82
Columbiana	14	12,533	2.07	8.90	202.7	50.82
Pennsylvania	7	12,604	2.32	8.30	205.4	51.78
Butler	4	12,439	2.42	9.20	205.7	51.17
Mercer	3	12,825	2.19	7.10	205.0	52.58
West Virginia	548	13,127	2.58	9.70	182.2	47.84
Barbour	412	13,085	2.70	10.02	181.5	47.50
Marion	122	13,246	2.29	8.95	186.2	49.32
Monongalia	14	13,355	1.74	6.80	168.7	45.06
Baltimore Gas & Electric Co Crane	**740**	**13,287**	**2.17**	**7.24**	**155.5**	**41.33**
Ohio	7	12,750	2.27	6.90	165.5	42.20
Harrison	7	12,750	2.27	6.90	165.5	42.20
Pennsylvania	44	12,902	2.17	8.44	163.1	42.08
Beaver	7	12,366	2.24	10.50	169.5	41.92
Clarion	14	12,509	1.91	9.20	164.5	41.17
Greene	23	13,305	2.31	7.36	160.4	42.69
Virginia	14	14,383	.71	4.10	184.3	53.02
Buchanan	14	14,383	.71	4.10	184.3	53.02
West Virginia	675	13,295	2.20	7.23	154.3	41.03
Barbour	159	13,112	1.70	7.72	155.3	40.74
Marion	246	13,350	2.31	7.88	155.4	41.50
Monongalia	270	13,352	2.39	6.34	152.7	40.78
Baltimore Gas & Electric Co Brandon Shores	**1,862**	**12,740**	**.70**	**9.43**	**156.3**	**39.83**
Kentucky	406	12,942	.73	7.88	159.6	41.30
Floyd	23	12,874	.80	7.35	174.4	44.91
Letcher	55	12,899	.74	7.90	171.1	44.15
Perry	36	12,874	.74	8.41	157.9	40.66
Pike	292	12,964	.72	7.86	156.4	40.56
Virginia	7	13,175	.56	8.70	168.4	44.37
Tazewell	7	13,175	.56	8.70	168.4	44.37
West Virginia	1,449	12,681	.69	9.87	155.3	39.40
Boone	90	12,715	.72	10.12	173.1	44.01
Logan	1,266	12,654	.69	9.94	153.7	38.90
Randolph	42	12,954	.70	9.93	166.3	43.09
Webster	51	13,087	.80	7.47	154.6	40.47
Baltimore Gas & Electric Co Wagner	**930**	**13,009**	**.84**	**8.29**	**160.3**	**41.70**
Kentucky	1	12,814	.74	8.80	167.2	42.85
Letcher	1	12,814	.74	8.80	167.2	42.85
West Virginia	929	13,010	.84	8.29	160.3	41.70
Nicholas	459	12,901	.87	8.72	164.9	42.54
Randolph	22	12,848	.82	10.37	165.7	42.59
Webster	448	13,129	.81	7.74	155.4	40.80
Basin Electric Power Coop Laramie River	**6,670**	**8,302**	**.37**	**5.30**	**58.5**	**9.72**
Wyoming	6,670	8,302	.37	5.30	58.5	9.72
Campbell	6,670	8,302	.37	5.30	58.5	9.72
Basin Electric Power Coop Antelope Valley	**4,803**	**6,666**	**.63**	**9.27**	**66.6**	**8.88**
North Dakota	4,803	6,666	.63	9.27	66.6	8.88
Mercer	4,803	6,666	.63	9.27	66.6	8.88
Basin Electric Power Coop Leland Olds	**1,995**	**6,597**	**.66**	**8.73**	**90.2**	**11.90**
North Dakota	1,995	6,597	.66	8.73	90.2	11.90
Mercer	1,995	6,597	.66	8.73	90.2	11.90
Big Rivers Electric Corp D B Wilson	**1,201**	**11,157**	**4.26**	**15.06**	**143.5**	**32.03**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Big Rivers Electric Corp D B Wilson						
Kentucky	1,201	11,157	4.26	15.06	143.5	32.03
Hopkins	960	11,139	4.26	15.14	150.1	33.44
Webster	241	11,226	4.23	14.72	117.5	26.37
Big Rivers Electric Corp R D Green	**1,644**	**10,565**	**4.32**	**16.50**	**120.7**	**25.51**
Indiana	42	11,250	3.71	9.58	99.8	22.46
Daviess	20	11,485	4.14	10.19	93.7	21.52
Warrick	22	11,029	3.31	9.00	105.8	23.33
Kentucky	1,602	10,547	4.33	16.68	121.3	25.59
Daviess	52	11,226	3.78	13.69	128.9	28.95
Henderson	1,137	10,063	4.55	17.68	113.7	22.89
Hopkins	20	11,240	3.90	13.70	140.3	31.54
Letcher	5	11,275	1.10	16.10	110.3	24.87
Webster	389	11,827	3.84	14.33	138.3	32.72
Big Rivers Electric Corp Coleman	**1,441**	**11,354**	**2.58**	**8.24**	**108.6**	**24.65**
Indiana	501	11,392	2.56	7.99	116.4	26.51
Daviess	486	11,399	2.56	7.98	116.6	26.59
Gibson	15	11,163	2.52	8.30	107.7	24.05
Kentucky	940	11,333	2.59	8.38	104.4	23.66
Daviess	428	11,255	2.62	8.51	103.4	23.27
Henderson	414	11,245	2.55	8.56	102.6	23.08
Letcher	2	11,186	1.31	17.10	75.6	16.91
Union	95	12,070	2.60	6.88	116.3	28.07
Big Rivers Electric Corp Reid-Henderson II	**824**	**12,121**	**2.67**	**8.95**	**124.6**	**30.20**
Indiana	289	11,312	2.44	8.38	120.2	27.19
Daviess	175	11,137	2.29	9.00	134.2	29.90
Spencer	114	11,581	2.66	7.43	99.4	23.02
Kentucky	535	12,558	2.79	9.26	126.7	31.83
Webster	535	12,558	2.79	9.26	126.7	31.83
Cajun Electric Power Coop Inc Big Cajun No.2	**4,682**	**8,604**	**.44**	**5.35**	**170.3**	**29.30**
West Virginia	211	13,189	.67	5.83	204.2	53.86
Mingo	211	13,189	.67	5.83	204.2	53.86
Wyoming	4,471	8,388	.43	5.33	167.7	28.14
Campbell	4,471	8,388	.43	5.33	167.7	28.14
Cardinal Operating Co Cardinal	**3,989**	**11,846**	**2.17**	**13.02**	**151.5**	**35.88**
Ohio	1,236	12,034	3.02	11.82	132.0	31.78
Belmont	397	11,748	2.83	12.83	134.3	31.55
Columbiana	78	11,997	2.64	9.13	122.1	29.30
Harrison	306	12,129	3.00	11.69	145.2	35.22
Jefferson	455	12,226	3.25	11.50	123.1	30.09
West Virginia	2,753	11,761	1.79	13.55	160.4	37.72
Brooke	1,345	12,228	2.90	10.36	154.4	37.76
Kanawha	1,408	11,315	.73	16.60	166.5	37.69
Carolina Power & Light Co Lee	**437**	**12,778**	**1.02**	**8.72**	**196.7**	**50.28**
Kentucky	343	12,790	1.04	8.24	205.3	52.53
Harlan	7	13,200	.91	6.20	161.8	42.72
Martin	329	12,782	1.04	8.26	207.1	52.94
Pike	7	12,721	1.10	9.20	167.6	42.64
Virginia	8	13,403	1.27	7.50	157.1	42.11
Wise	8	13,403	1.27	7.50	157.1	42.11
West Virginia	86	12,674	.89	10.78	165.8	42.03
Boone	58	12,710	.82	10.73	167.1	42.49
Mingo	28	12,598	1.03	10.86	163.0	41.08
Carolina Power & Light Co Robinson	**209**	**12,427**	**1.24**	**10.41**	**186.3**	**46.31**
Kentucky	177	12,438	1.27	9.88	187.2	46.57
Breathitt	13	12,151	1.30	8.60	164.7	40.03
Harlan	96	12,303	1.37	11.05	172.0	42.31
Letcher	14	12,585	1.17	9.90	171.9	43.27
Martin	54	12,708	1.10	8.09	222.7	56.59
Virginia	2	11,980	2.38	13.80	170.0	40.73
Buchanan	2	11,980	2.38	13.80	170.0	40.73

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Carolina Power & Light Co Robinson						
West Virginia	30	12,394	0.97	13.33	181.8	45.08
Boone	25	12,375	.97	13.41	184.2	45.60
Logan	3	12,492	.94	12.90	169.8	42.42
Unknown	2	12,492	.94	12.90	169.8	42.42
Carolina Power & Light Co Mayo	**1,423**	**12,065**	**.62**	**11.68**	**192.2**	**46.37**
Kentucky	19	12,976	.61	8.30	158.7	41.19
Martin	*	12,533	.76	7.90	162.4	40.71
Pike	19	12,978	.61	8.30	158.7	41.19
West Virginia	1,403	12,052	.62	11.72	192.7	46.45
Mingo	1,403	12,052	.62	11.72	192.7	46.45
Carolina Power & Light Co Cape Fear	**541**	**12,662**	**1.01**	**9.35**	**194.2**	**49.18**
Kentucky	414	12,748	1.04	8.69	198.0	50.49
Breathitt	12	12,112	.95	10.30	158.4	38.37
Floyd	46	12,629	1.17	10.35	156.0	39.41
Harlan	15	12,973	.90	7.43	158.0	40.99
Letcher	7	12,644	1.05	11.10	165.3	41.80
Martin	335	12,779	1.03	8.42	207.5	53.04
Virginia	22	13,140	1.25	9.50	152.7	40.13
Wise	22	13,140	1.25	9.50	152.7	40.13
West Virginia	104	12,217	.86	11.89	188.1	45.95
Boone	10	12,412	.81	12.42	168.3	41.77
Mingo	87	12,194	.87	11.75	192.6	46.98
Unknown	7	12,203	.85	12.80	161.8	39.49
Carolina Power & Light Co Weatherspoon	**174**	**12,685**	**1.09**	**10.20**	**194.5**	**49.34**
Kentucky	119	12,724	1.15	9.14	197.8	50.32
Breathitt	*	11,977	.84	6.20	170.8	40.91
Floyd	60	12,626	1.20	10.51	168.2	42.48
Harlan	1	11,327	1.24	14.90	172.8	39.15
Martin	58	12,845	1.10	7.66	227.8	58.53
West Virginia	56	12,601	.95	12.47	187.4	47.24
Boone	51	12,582	.97	12.75	188.5	47.45
Logan	4	12,827	.76	9.10	174.4	44.74
Carolina Power & Light Co Roxboro	**5,543**	**12,506**	**.88**	**10.03**	**180.9**	**45.24**
Kentucky	2,556	12,630	.94	8.28	184.9	46.70
Martin	2,488	12,618	.94	8.30	185.7	46.87
Pike	68	13,066	1.29	7.24	155.3	40.59
Virginia	31	13,342	.65	6.52	156.8	41.83
Wise	31	13,342	.65	6.52	156.8	41.83
West Virginia	2,956	12,389	.82	11.58	177.6	44.01
Boone	1,608	12,505	.90	12.05	171.0	42.76
Mingo	1,348	12,251	.73	11.01	185.7	45.49
Carolina Power & Light Co Sutton	**570**	**12,670**	**1.06**	**10.42**	**185.9**	**47.12**
Kentucky	294	12,602	1.11	9.42	189.6	47.78
Breathitt	12	11,964	.95	9.50	170.8	40.87
Floyd	57	12,417	.97	10.00	171.5	42.59
Harlan	111	12,616	1.21	9.45	171.7	43.32
Letcher	9	11,559	1.03	18.20	180.6	41.75
Martin	85	12,893	1.14	7.97	230.8	59.52
Pike	21	12,642	.96	9.77	173.4	43.83
West Virginia	276	12,744	1.00	11.48	182.1	46.42
Boone	276	12,744	1.00	11.48	182.1	46.42
Carolina Power & Light Co Asheville	**970**	**13,312**	**1.19**	**9.36**	**136.2**	**36.25**
Kentucky	41	13,094	1.12	7.91	207.9	54.45
Martin	41	13,093	1.12	7.92	208.2	54.52
Unknown	*	13,650	.70	2.50	102.6	28.01
Virginia	903	13,332	1.20	9.40	132.4	35.32
Wise	903	13,332	1.20	9.40	132.4	35.32
West Virginia	25	12,936	1.16	10.43	154.5	39.97
Mingo	25	12,940	1.16	10.44	154.7	40.02
Unknown	*	12,000	1.00	6.00	107.1	25.70
Cedar Falls City of Streeter	**22**	**11,214**	**3.05**	**11.17**	**139.1**	**31.19**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Cedar Falls City of Streeter						
Kentucky	22	11,214	3.05	11.17	139.1	31.19
Daviess	20	11,123	3.07	11.38	137.3	30.54
Hopkins	2	12,428	2.77	8.40	160.4	39.86
Central Electric Pwr Coop-MO Chamois	**116**	**10,818**	**3.04**	**10.04**	**128.2**	**27.74**
Illinois	99	10,957	2.78	9.11	129.6	28.41
Randolph	99	10,957	2.78	9.11	129.6	28.41
Missouri	17	10,008	4.61	15.40	119.3	23.89
Ralls	17	10,008	4.61	15.40	119.3	23.89
Central Hudson Gas & Elec Corp Danskammer	**935**	**13,074**	**.58**	**8.08**	**205.8**	**53.80**
Kentucky	410	13,316	.53	7.40	205.0	54.60
Pike	410	13,316	.53	7.40	205.0	54.60
West Virginia	525	12,885	.62	8.62	206.4	53.18
Mingo	525	12,885	.62	8.62	206.4	53.18
Central Illinois Light Co Duck Creek	**861**	**10,596**	**3.37**	**8.29**	**186.9**	**39.61**
Illinois	861	10,596	3.37	8.29	186.9	39.61
Macoupin	861	10,596	3.37	8.29	186.9	39.61
Central Illinois Light Co Edwards	**1,269**	**12,917**	**1.00**	**6.20**	**174.9**	**45.19**
Illinois	189	10,515	2.94	9.52	162.1	34.09
Fulton	126	10,522	2.73	10.06	143.7	30.25
Macoupin	63	10,501	3.38	8.44	198.9	41.77
Kentucky	1,057	13,337	.66	5.60	176.6	47.10
Perry	440	13,354	.74	5.33	186.7	49.86
Pike	617	13,325	.61	5.79	169.3	45.13
West Virginia	23	13,353	.69	6.36	181.9	48.57
Boone	23	13,353	.69	6.36	181.9	48.57
Central Illinois Pub Serv Co Grand Tower	**204**	**11,574**	**2.99**	**11.46**	**164.7**	**38.13**
Illinois	204	11,574	2.99	11.46	164.7	38.13
Williamson	204	11,574	2.99	11.46	164.7	38.13
Central Illinois Pub Serv Co Hutsonville	**213**	**11,373**	**2.64**	**8.74**	**142.9**	**32.49**
Indiana	213	11,373	2.64	8.74	142.9	32.49
Daviess	170	11,454	2.68	8.41	143.3	32.82
Greene	44	11,059	2.48	9.99	141.3	31.24
Central Illinois Pub Serv Co Coffeen	**1,746**	**10,606**	**3.54**	**8.58**	**158.9**	**33.70**
Illinois	1,746	10,606	3.54	8.58	158.9	33.70
Macoupin	1,746	10,606	3.54	8.58	158.9	33.70
Central Illinois Pub Serv Co Newton	**2,035**	**11,448**	**1.81**	**10.56**	**166.4**	**38.11**
Colorado	11	11,027	.44	11.20	156.3	34.47
Routt	11	11,027	.44	11.20	156.3	34.47
Illinois	1,075	11,579	2.97	11.31	176.7	40.91
Williamson	1,075	11,579	2.97	11.31	176.7	40.91
Indiana	530	10,895	.50	8.45	150.9	32.88
Greene	19	11,396	.64	6.24	157.5	35.90
Sullivan	511	10,876	.50	8.53	150.6	32.77
Kentucky	25	12,530	.69	8.63	159.1	39.87
Letcher	25	12,530	.69	8.63	159.1	39.87
New Mexico	222	12,377	.56	13.28	165.9	41.06
Colfax	222	12,377	.56	13.28	165.9	41.06
West Virginia	45	12,674	.65	10.74	154.1	39.06
Logan	45	12,674	.65	10.74	154.1	39.06
Wyoming	127	10,408	.39	8.50	147.2	30.65
Carbon	127	10,408	.39	8.50	147.2	30.65
Central Illinois Pub Serv Co Meredosia	**517**	**11,366**	**2.54**	**5.08**	**145.9**	**33.17**
Illinois	477	11,308	2.52	5.03	146.9	33.23
Schuyler	477	11,308	2.52	5.03	146.9	33.23
Kentucky	40	12,061	2.69	5.60	134.6	32.47
Union	40	12,061	2.69	5.60	134.6	32.47
Central Iowa Power Coop Fair	**142**	**10,933**	**2.95**	**10.17**	**117.7**	**25.74**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Central Iowa Power Coop Fair						
Illinois	120	10,859	2.94	10.28	117.9	25.61
Randolph	120	10,859	2.94	10.28	117.9	25.61
Indiana	14	11,400	2.91	8.71	116.9	26.66
Dubois	3	11,396	3.07	8.70	114.9	26.19
Spencer	11	11,401	2.87	8.71	117.5	26.80
Kentucky	8	11,230	3.19	11.12	116.7	26.20
Daviess	8	11,230	3.19	11.12	116.7	26.20
Central Louisiana Elec Co Inc Dolet Hills	**3,186**	**6,881**	**.55**	**12.50**	**133.5**	**18.37**
Louisiana	3,186	6,881	.55	12.50	133.5	18.37
De Soto	2,747	6,899	.52	12.07	129.8	17.90
Red River	439	6,768	.72	15.16	157.5	21.33
Central Louisiana Elec Co Inc Rodemacher	**1,666**	**8,800**	**.49**	**5.80**	**192.8**	**33.93**
Wyoming	1,666	8,800	.49	5.80	192.8	33.93
Campbell	1,666	8,800	.49	5.80	192.8	33.93
Central Operating Co Sporn	**2,152**	**12,308**	**1.13**	**11.70**	**139.1**	**34.23**
Kentucky	119	12,176	1.19	9.91	153.9	37.47
Elliott	21	11,718	1.11	12.10	126.5	29.64
Floyd	57	12,178	1.18	9.82	154.9	37.72
Lawrence	2	12,159	1.46	12.10	128.3	31.20
Martin	2	12,159	1.46	12.10	128.3	31.20
Pike	36	12,444	1.22	8.50	170.4	42.40
West Virginia	2,032	12,316	1.12	11.80	138.2	34.04
Boone	193	12,582	.82	10.33	179.9	45.27
Clay	354	12,182	1.18	12.46	131.0	31.92
Fayette	670	12,471	1.22	11.67	139.5	34.80
Kanawha	417	12,216	1.03	11.44	129.6	31.68
Logan	4	11,696	1.12	12.18	126.2	29.53
Nicholas	383	12,161	1.16	12.55	130.5	31.73
Wayne	12	11,932	1.24	12.02	129.4	30.87
Central Power & Light Co Coleto Creek	**1,829**	**10,588**	**.38**	**6.30**	**206.0**	**43.63**
Colorado	1,829	10,588	.38	6.30	206.0	43.63
Moffat	1,819	10,584	.38	6.28	206.2	43.65
Routt	10	11,346	.42	10.00	172.6	39.17
Century Power Corp Springerville	**1,785**	**9,268**	**.62**	**16.53**	**196.8**	**36.48**
New Mexico	1,785	9,268	.62	16.53	196.8	36.48
Mckinley	1,785	9,268	.62	16.53	196.8	36.48
Cincinnati Gas & Electric Co East Bend	**1,519**	**11,560**	**1.89**	**12.40**	**148.3**	**34.28**
Illinois	10	11,443	2.93	11.03	117.3	26.84
Williamson	10	11,443	2.93	11.03	117.3	26.84
Indiana	45	10,857	3.22	10.15	109.2	23.72
Spencer	11	10,772	3.31	11.40	109.1	23.50
Warrick	34	10,883	3.20	9.77	109.3	23.79
Kentucky	1,145	11,629	1.62	12.43	149.8	34.84
Daviess	110	11,244	2.78	12.08	175.7	39.51
Floyd	34	11,315	1.19	14.44	112.5	25.46
Hopkins	93	11,392	2.76	12.19	170.4	38.81
Knott	36	11,893	1.41	12.24	128.4	30.54
Letcher	21	11,885	1.02	12.32	118.8	28.25
Magoffin	538	11,827	1.30	13.25	163.4	38.65
Martin	17	11,428	1.04	13.86	156.0	35.66
Muhlenberg	46	11,526	2.75	9.33	110.3	25.42
Ohio	102	11,454	1.69	7.34	121.1	27.74
Perry	133	11,489	1.12	13.71	117.1	26.91
Pike	14	11,483	1.16	14.39	112.7	25.88
Ohio	226	11,368	2.76	12.59	148.8	33.84
Belmont	38	11,706	3.76	13.20	106.1	24.83
Harrison	19	11,824	2.42	12.06	120.0	28.38
Jackson	28	11,144	3.18	11.57	114.8	25.60
Jefferson	1	11,356	2.32	14.20	92.6	21.03
Lawrence	130	11,263	2.39	12.63	176.5	39.75
Meigs	2	11,686	3.54	11.30	119.0	27.81
Noble	5	10,997	3.58	15.90	116.9	25.71
Vinton	3	11,248	2.73	10.91	115.6	26.00

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Cincinnati Gas & Electric Co East Bend						
Pennsylvania	12	11,887	2.43	13.64	112.7	26.80
Allegheny	2	11,095	1.27	10.70	96.8	21.48
Greene	10	12,008	2.61	14.09	115.0	27.61
West Virginia	80	11,474	2.38	12.79	155.4	35.66
Boone	3	12,076	.83	12.60	112.3	27.12
Fayette	15	11,369	2.21	16.29	116.6	26.50
Kanawha	54	11,395	2.62	12.03	174.1	39.69
Logan	2	12,030	1.46	12.60	99.1	23.84
Mingo	2	12,584	.80	8.20	119.6	30.10
Nicholas	1	12,413	.92	10.10	118.6	29.44
Ohio	3	11,526	2.58	13.00	126.5	29.16
Cincinnati Gas & Electric Co Miami Fort	**3,269**	**11,813**	**1.70**	**11.54**	**147.2**	**34.77**
Illinois	24	11,420	2.93	11.28	116.7	26.65
Williamson	24	11,420	2.93	11.28	116.7	26.65
Indiana	52	10,898	3.17	9.75	109.1	23.78
Warrick	52	10,898	3.17	9.75	109.1	23.78
Kentucky	1,158	11,809	1.24	11.39	134.1	31.68
Daviess	47	11,177	2.69	12.45	175.5	39.23
Floyd	350	12,040	.72	10.83	123.5	29.73
Hopkins	34	11,447	2.85	11.60	167.2	38.27
Knott	65	11,913	1.53	12.45	120.7	28.75
Letcher	5	11,868	.84	11.92	126.7	30.07
Magoffin	247	11,842	1.29	13.14	161.7	38.30
Martin	6	11,124	1.28	14.16	129.0	28.70
Muhlenberg	73	11,511	2.88	9.79	111.2	25.61
Ohio	95	11,386	1.62	7.38	118.7	27.03
Perry	214	11,888	.66	11.69	126.8	30.15
Pike	20	11,585	1.16	13.88	113.4	26.28
Ohio	792	11,383	2.82	12.35	152.6	34.75
Athens	2	10,961	2.70	12.54	95.7	20.99
Belmont	107	11,562	3.46	14.07	103.8	23.99
Harrison	26	12,196	2.57	10.61	120.4	29.38
Hocking	10	11,221	3.93	12.66	118.3	26.56
Jackson	53	11,175	3.24	11.38	112.5	25.14
Jefferson	2	11,356	2.32	14.20	91.8	20.85
Lawrence	511	11,335	2.56	12.15	175.9	39.87
Meigs	53	11,504	3.27	12.39	117.1	26.95
Noble	6	10,642	3.72	16.66	109.0	23.20
Stark	3	11,695	3.06	13.00	122.6	28.68
Vinton	19	11,098	3.07	11.29	114.8	25.49
Pennsylvania	198	12,008	2.59	13.98	142.5	34.23
Greene	198	12,008	2.59	13.98	142.5	34.23
West Virginia	1,044	12,162	1.08	10.72	160.5	39.04
Boone	127	12,232	.57	10.40	184.6	45.17
Fayette	2	11,151	2.42	11.80	174.0	38.81
Kanawha	661	12,171	1.12	10.91	169.2	41.20
Lincoln	18	12,073	.63	9.80	129.2	31.20
Logan	37	12,118	.64	9.31	128.1	31.04
Mason	53	12,104	2.37	10.24	113.1	27.38
Mingo	93	12,441	.65	9.18	134.7	33.52
Nicholas	26	11,692	.69	12.62	122.9	28.73
Ohio	27	11,375	2.75	14.44	111.6	25.39
Cincinnati Gas & Electric Co Beckjord	**2,734**	**11,571**	**2.04**	**12.68**	**141.8**	**32.81**
Indiana	10	10,882	3.15	9.92	111.1	24.17
Spencer	2	10,957	3.40	11.70	111.9	24.52
Warrick	8	10,868	3.10	9.60	110.9	24.11
Kentucky	1,232	11,730	1.03	13.13	152.0	35.66
Daviess	16	11,092	2.89	12.19	175.0	38.82
Floyd	95	11,325	1.06	14.43	110.2	24.96
Johnson	3	11,138	2.45	14.40	89.9	20.03
Knott	63	11,834	1.74	12.78	121.3	28.71
Letcher	69	12,185	.87	10.34	121.5	29.60
Magoffin	226	11,810	1.27	13.38	159.0	37.56
Martin	642	11,697	.86	13.40	167.7	39.24
Perry	86	11,888	.87	11.85	120.4	28.63
Pike	32	11,799	1.05	12.46	115.8	27.32

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Cincinnati Gas & Electric Co Beckjord						
Ohio	1,101	11,388	3.07	12.06	131.2	29.89
Athens	5	11,207	2.53	12.13	97.0	21.73
Belmont	167	11,748	3.77	13.17	102.9	24.19
Harrison	64	12,184	2.69	10.71	118.1	28.77
Hocking	18	11,230	3.66	12.42	112.0	25.14
Jackson	315	11,157	3.29	11.79	107.3	23.95
Jefferson	2	11,538	1.91	13.80	91.0	21.00
Lawrence	384	11,352	2.63	11.99	174.3	39.58
Meigs	39	11,444	3.30	12.77	112.4	25.72
Noble	12	10,462	3.77	17.34	103.6	21.68
Stark	8	11,903	2.55	11.19	121.5	28.93
Vinton	87	11,208	2.90	11.05	112.3	25.18
Pennsylvania	78	12,096	2.59	13.39	130.7	31.63
Greene	78	12,096	2.59	13.39	130.7	31.63
West Virginia	313	11,476	2.21	12.99	141.2	32.41
Boone	25	11,809	.83	13.29	104.7	24.73
Fayette	6	11,190	2.52	18.29	97.9	21.92
Kanawha	179	11,380	2.45	12.27	166.7	37.95
Lincoln	6	11,569	.89	14.11	114.4	26.47
Logan	22	11,583	.98	12.48	129.0	29.88
Mason	13	12,326	2.18	10.06	112.0	27.61
Mingo	3	12,057	.77	10.50	108.1	26.07
Nicholas	10	12,106	1.05	11.08	110.3	26.70
Ohio	48	11,239	3.09	16.26	97.4	21.90
Cincinnati Gas & Electric Co Zimmer	**484**	**11,846**	**3.02**	**10.22**	**110.0**	**26.06**
Ohio	484	11,846	3.02	10.22	110.0	26.06
Belmont	311	11,977	3.39	11.13	112.4	26.92
Harrison	7	12,129	3.75	10.70	107.8	26.15
Lawrence	166	11,590	2.29	8.49	105.4	24.44
Cleveland Electric Illum Co Avon Lake	**1,838**	**12,272**	**2.33**	**9.96**	**155.4**	**38.15**
Ohio	1,838	12,272	2.33	9.96	155.4	38.15
Belmont	263	12,021	3.25	11.34	224.5	53.97
Columbiana	210	11,975	2.35	9.70	140.9	33.73
Harrison	1,346	12,382	2.13	9.72	144.7	35.83
Tuscarawas	18	11,218	3.20	10.50	141.4	31.72
Cleveland Electric Illum Co Ashtabula	**954**	**12,650**	**3.16**	**8.88**	**145.4**	**36.79**
Ohio	451	12,401	4.04	9.87	157.4	39.03
Belmont	451	12,401	4.04	9.87	157.4	39.03
Pennsylvania	503	12,873	2.38	8.00	135.1	34.78
Venango	503	12,873	2.38	8.00	135.1	34.78
Cleveland Electric Illum Co Lake Shore	**409**	**13,072**	**.60**	**6.50**	**175.5**	**45.88**
Kentucky	313	13,053	.60	6.43	176.6	46.11
Martin	93	12,805	.62	6.28	180.6	46.26
Pike	220	13,157	.59	6.49	175.0	46.04
West Virginia	97	13,134	.59	6.74	171.9	45.16
Mingo	97	13,134	.59	6.74	171.9	45.16
Cleveland Electric Illum Co Eastlake	**2,180**	**12,717**	**3.06**	**9.43**	**152.7**	**38.84**
Ohio	1,231	12,506	3.56	9.89	164.7	41.19
Belmont	1,027	12,517	3.76	10.02	171.9	43.04
Columbiana	182	12,419	2.55	9.25	126.7	31.47
Harrison	22	12,687	2.54	9.30	138.7	35.19
Pennsylvania	598	12,910	2.45	9.24	135.9	35.10
Armstrong	120	12,837	2.15	10.85	143.1	36.73
Clarion	159	12,769	2.81	9.45	128.3	32.77
Greene	212	13,400	2.32	7.14	136.6	36.60
Lawrence	98	12,197	2.53	11.42	138.9	33.88
Westmoreland	9	12,624	2.01	9.90	128.1	32.34
West Virginia	351	13,130	2.35	8.15	140.8	36.99
Marion	293	13,182	2.32	7.77	142.9	37.67
Monongalia	37	13,068	2.78	8.70	126.5	33.05
Nicholas	21	12,499	1.88	12.57	137.5	34.38
Colorado Springs City of Drake	**608**	**10,605**	**.37**	**5.10**	**150.0**	**31.81**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Colorado Springs City of — Drake						
Colorado	608	10,605	0.37	5.10	150.0	31.81
Moffat	608	10,605	.37	5.10	150.0	31.81
Colorado Springs City of — Nixon	**760**	**10,775**	**.42**	**7.73**	**136.2**	**29.36**
Colorado	760	10,775	.42	7.73	136.2	29.36
Las Animas	21	12,268	.33	14.73	92.1	22.60
Moffat	563	10,614	.39	6.92	151.4	32.15
Routt	177	11,114	.50	9.51	95.7	21.27
Colorado-Ute Electric Assn — Hayden	**1,478**	**10,668**	**.43**	**10.14**	**84.8**	**18.09**
Colorado	1,478	10,668	.43	10.14	84.8	18.09
Routt	1,478	10,668	.43	10.14	84.8	18.09
Colorado-Ute Electric Assn — Craig	**3,926**	**10,193**	**.37**	**6.39**	**94.6**	**19.29**
Colorado	3,926	10,193	.37	6.39	94.6	19.29
Moffat	3,926	10,193	.37	6.39	94.6	19.29
Columbia City of — Columbia	**36**	**12,800**	**1.76**	**7.90**	**196.3**	**50.27**
Illinois	13	10,530	3.69	11.84	158.6	33.41
Randolph	*	10,498	3.73	11.96	159.0	33.38
St Clair	13	10,531	3.69	11.84	158.6	33.41
Kentucky	23	14,128	.63	5.59	212.8	60.12
Pike	23	14,128	.63	5.59	212.8	60.12
Columbus Southern Power Co — Picway	**265**	**11,576**	**2.99**	**9.75**	**112.5**	**26.04**
Ohio	265	11,576	2.99	9.75	112.5	26.04
Athens	62	11,458	2.21	10.49	111.1	25.46
Hocking	20	11,471	3.62	10.63	96.8	22.21
Perry	80	11,752	3.50	8.80	105.0	24.67
Vinton	103	11,530	2.95	9.87	122.3	28.20
Columbus Southern Power Co — Conesville	**3,640**	**11,776**	**3.13**	**8.20**	**158.5**	**37.32**
Ohio	3,640	11,776	3.13	8.20	158.5	37.32
Coshocton	1,968	11,896	3.22	7.22	168.3	40.04
Guernsey	122	11,232	4.19	11.35	144.1	32.36
Harrison	25	12,670	3.00	9.00	128.0	32.44
Holmes	233	11,173	3.89	11.37	103.3	23.08
Muskingum	136	12,207	3.28	6.82	137.1	33.48
Perry	630	11,463	2.36	9.91	163.4	37.46
Tuscarawas	438	12,057	3.00	7.34	159.3	38.41
Unknown	87	11,393	3.65	11.42	96.5	21.98
Columbus City of — Solid Waste R F	**45**	**12,329**	**.74**	**8.58**	**168.6**	**41.58**
Kentucky	31	12,742	.82	8.84	166.8	42.50
Pike	31	12,742	.82	8.84	166.8	42.50
Ohio	15	11,474	.57	8.05	172.9	39.67
Jackson	15	11,474	.57	8.05	172.9	39.67
Commonwealth Edison Co — Waukegan	**850**	**9,504**	**.42**	**8.47**	**284.2**	**54.02**
Montana	33	9,632	.36	4.10	291.1	56.08
Big Horn	33	9,632	.36	4.10	291.1	56.08
Wyoming	817	9,498	.42	8.65	283.9	53.94
Sweetwater	817	9,498	.42	8.65	283.9	53.94
Commonwealth Edison Co — Crawford	**254**	**9,504**	**.44**	**8.54**	**323.4**	**61.47**
Montana	13	9,559	.40	4.14	317.3	60.66
Big Horn	13	9,559	.40	4.14	317.3	60.66
Wyoming	241	9,501	.44	8.78	323.7	61.51
Sweetwater	241	9,501	.44	8.78	323.7	61.51
Commonwealth Edison Co — Fisk	**400**	**9,502**	**.42**	**8.59**	**322.2**	**61.22**
Montana	2	9,623	.36	4.20	311.7	59.99
Big Horn	2	9,623	.36	4.20	311.7	59.99
Wyoming	398	9,501	.42	8.61	322.2	61.23
Sweetwater	398	9,501	.42	8.61	322.2	61.23
Commonwealth Edison Co — Joliet	**1,503**	**9,529**	**.42**	**7.88**	**296.0**	**56.41**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Commonwealth Edison Co Joliet						
Montana	245	9,642	0.37	4.13	297.6	57.38
Big Horn	245	9,642	.37	4.13	297.6	57.38
Wyoming	1,258	9,507	.43	8.61	295.7	56.22
Sweetwater	1,258	9,507	.43	8.61	295.7	56.22
Commonwealth Edison Co Kincaid	**2,335**	**10,266**	**3.46**	**9.37**	**138.0**	**28.34**
Illinois	2,335	10,266	3.46	9.37	138.0	28.34
Christian	2,335	10,266	3.46	9.37	138.0	28.34
Commonwealth Edison Co Powerton	**1,969**	**9,596**	**.37**	**4.13**	**280.9**	**53.92**
Montana	1,969	9,596	.37	4.13	280.9	53.92
Big Horn	1,969	9,596	.37	4.13	280.9	53.92
Commonwealth Edison Co State Line	**348**	**9,566**	**.39**	**4.15**	**296.5**	**56.72**
Montana	348	9,566	.39	4.15	296.5	56.72
Big Horn	348	9,566	.39	4.15	296.5	56.72
Commonwealth Edison Co Will County	**856**	**9,562**	**.40**	**6.21**	**319.9**	**61.17**
Montana	463	9,603	.37	4.14	315.7	60.64
Big Horn	463	9,603	.37	4.14	315.7	60.64
Wyoming	393	9,513	.43	8.64	324.8	61.79
Sweetwater	393	9,513	.43	8.64	324.8	61.79
Consumers Power Co Karn-Weadock	**1,259**	**12,261**	**.86**	**10.74**	**155.5**	**38.14**
Kentucky	795	12,301	.89	10.40	158.9	39.09
Floyd	388	12,248	.95	10.72	154.9	37.95
Harlan	51	12,069	.91	10.84	167.1	40.33
Martin	10	12,469	.75	8.10	149.6	37.31
Perry	96	12,585	.81	8.55	163.0	41.01
Pike	249	12,315	.83	10.61	162.2	39.95
Pennsylvania	25	12,531	.98	11.20	160.5	40.22
Allegheny	25	12,531	.98	11.20	160.5	40.22
West Virginia	440	12,174	.79	11.32	149.1	36.29
Boone	294	12,051	.84	11.72	148.6	35.83
Logan	146	12,422	.69	10.51	149.9	37.24
Consumers Power Co Campbell	**2,891**	**12,442**	**.77**	**10.08**	**169.5**	**42.18**
Kentucky	1,489	12,696	.76	8.50	173.0	43.92
Breathitt	17	12,497	.74	9.51	157.3	39.32
Floyd	203	12,164	.95	10.88	166.7	40.56
Harlan	17	11,869	.89	11.90	177.5	42.13
Perry	529	12,635	.79	8.52	170.8	43.16
Pike	721	12,915	.69	7.71	176.4	45.58
Whitley	*	12,275	.42	9.90	225.9	55.46
West Virginia	1,402	12,172	.77	11.75	165.7	40.34
Boone	1,305	12,162	.77	11.78	166.5	40.49
Logan	98	12,300	.76	11.37	156.0	38.38
Consumers Power Co Cobb-Sandusky Sg	**827**	**11,001**	**.67**	**8.02**	**153.0**	**33.67**
Kentucky	95	12,562	.86	9.37	175.5	44.09
Floyd	8	12,333	.94	9.30	167.8	41.39
Perry	26	12,671	.89	8.68	176.2	44.65
Pike	61	12,548	.83	9.66	176.2	44.23
Pennsylvania	386	12,375	.94	10.55	164.2	40.63
Allegheny	386	12,375	.94	10.55	164.2	40.63
Wyoming	346	9,036	.32	4.83	127.4	23.01
Campbell	334	9,044	.32	4.83	127.5	23.06
Converse	12	8,801	.30	4.80	124.0	21.83
Consumers Power Co Weadock-Sandusky	**836**	**11,595**	**.77**	**9.67**	**150.3**	**34.86**
Kentucky	436	12,349	.91	10.08	157.3	38.86
Floyd	283	12,293	.94	10.20	155.3	38.18
Perry	57	12,621	.82	8.47	164.4	41.50
Pike	96	12,352	.90	10.68	158.9	39.26
West Virginia	236	12,131	.83	11.96	150.2	36.43
Boone	221	12,103	.84	11.99	149.7	36.23
Logan	15	12,532	.76	11.48	157.1	39.39

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Consumers Power Co — Weadock-Sandusky						
Wyoming	163	8,807	0.30	5.25	124.6	21.94
Campbell	104	8,819	.29	5.10	124.6	21.99
Converse	59	8,784	.32	5.52	124.4	21.85
Consumers Power Co — Whiting	**897**	**12,233**	**.84**	**11.17**	**154.0**	**37.68**
Kentucky	288	12,134	.87	10.94	160.1	38.85
Floyd	40	12,167	.93	10.80	147.3	35.86
Harlan	87	12,136	.88	11.38	162.6	39.46
Pike	162	12,126	.85	10.74	161.9	39.27
West Virginia	608	12,280	.83	11.28	151.2	37.13
Boone	484	12,237	.84	11.30	152.4	37.31
Logan	124	12,450	.80	11.19	146.3	36.42
Coop Power Assn — Coal Creek	**6,776**	**6,360**	**.77**	**10.60**	**68.3**	**8.69**
North Dakota	6,776	6,360	.77	10.60	68.3	8.69
Mclean	6,776	6,360	.77	10.60	68.3	8.69
Dairyland Power Coop — Alma-Madgett	**1,440**	**8,915**	**.50**	**5.32**	**135.3**	**24.13**
Illinois	171	11,683	1.54	6.76	143.0	33.41
Jefferson	171	11,683	1.54	6.76	143.0	33.41
Kentucky	29	12,021	1.02	8.70	141.9	34.12
Breathitt	29	12,021	1.02	8.70	141.9	34.12
Wyoming	1,240	8,460	.35	5.05	133.6	22.61
Campbell	1,240	8,460	.35	5.05	133.6	22.61
Dairyland Power Coop — Stoneman	**25**	**11,694**	**1.42**	**6.21**	**143.0**	**33.45**
Illinois	25	11,694	1.42	6.21	143.0	33.45
Jefferson	25	11,694	1.42	6.21	143.0	33.45
Dairyland Power Coop — Genoa No.3	**570**	**9,877**	**1.82**	**8.88**	**126.7**	**25.04**
Illinois	316	10,814	2.93	10.51	126.9	27.44
Perry	100	10,926	2.94	10.34	132.4	28.94
Randolph	216	10,762	2.93	10.59	124.3	26.75
West Virginia	35	11,828	.65	11.93	160.8	38.05
Mingo	35	11,828	.65	11.93	160.8	38.05
Wyoming	219	8,212	.40	6.03	118.6	19.48
Campbell	219	8,212	.40	6.03	118.6	19.48
Dayton Power & Light Co — Stuart	**6,956**	**11,613**	**1.42**	**13.86**	**150.5**	**34.95**
Kentucky	5,467	11,605	1.29	13.97	159.7	37.07
Bell	239	12,550	1.31	8.76	188.7	47.36
Breathitt	174	11,148	1.31	14.81	120.6	26.89
Carter	58	11,072	1.25	15.13	116.7	25.85
Elliott	45	11,231	1.49	14.98	122.2	27.45
Floyd	372	11,370	1.35	14.63	121.6	27.64
Johnson	261	11,584	1.33	13.89	110.1	25.50
Knott	97	11,198	1.34	14.87	122.6	27.46
Lawrence	222	11,205	1.35	15.22	121.6	27.25
Letcher	41	11,542	1.25	14.04	113.5	26.20
Magoffin	108	11,224	1.01	14.18	115.2	25.87
Martin	242	11,414	1.34	14.44	121.5	27.73
Morgan	24	11,563	1.34	14.28	114.1	26.40
Perry	2,490	11,393	1.22	15.28	176.1	40.13
Pike	1,096	12,281	1.38	11.22	175.2	43.03
Ohio	449	11,291	3.54	12.88	113.6	25.66
Belmont	26	12,064	3.73	12.55	111.4	26.89
Hocking	57	11,225	3.79	12.76	108.8	24.43
Jackson	139	11,053	3.51	12.63	114.7	25.36
Jefferson	109	11,533	3.41	14.21	113.1	26.09
Vinton	117	11,206	3.53	12.07	115.8	25.95
Pennsylvania	15	11,176	1.51	13.74	117.7	26.32
Washington	15	11,176	1.51	13.74	117.7	26.32
West Virginia	1,025	11,803	1.20	13.72	118.1	27.87
Boone	47	11,359	1.28	14.01	122.8	27.90
Clay	118	12,158	1.24	12.85	119.8	29.14
Fayette	202	12,030	1.20	13.65	118.0	28.40
Kanawha	116	12,292	1.09	11.71	124.0	30.49
Logan	352	11,452	1.16	14.69	114.2	26.16
Mason	8	11,425	3.67	12.57	121.1	27.68

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Dayton Power & Light Co Stuart						
West Virginia						
Mingo	101	11,787	1.15	13.78	120.7	28.46
Nicholas	81	11,869	1.31	13.72	116.7	27.70
Dayton Power & Light Co Hutchings	**169**	**12,169**	**.79**	**10.54**	**150.1**	**36.53**
Kentucky	150	12,159	.78	10.47	148.5	36.11
Floyd	10	12,039	.76	12.24	166.3	40.05
Harlan	25	12,589	.59	9.25	147.4	37.10
Johnson	7	12,004	.89	11.15	142.1	34.12
Owsley	5	12,353	1.00	4.80	144.4	35.68
Perry	69	12,051	.85	10.07	141.9	34.20
Pike	33	12,127	.70	12.49	160.6	38.95
Whitley	2	11,684	.95	9.10	136.0	31.78
West Virginia	18	12,246	.87	11.03	163.2	39.97
Logan	5	12,016	.72	10.00	193.9	46.60
Nicholas	13	12,331	.93	11.42	152.1	37.51
Dayton Power & Light Co Killen	**1,929**	**12,522**	**.65**	**10.79**	**150.0**	**37.57**
Kentucky	477	12,592	.65	9.97	135.3	34.07
Breathitt	2	12,000	.69	12.00	149.3	35.83
Elliott	22	12,393	.61	8.64	145.5	36.06
Floyd	243	12,576	.65	10.10	132.7	33.39
Knott	106	12,650	.71	9.54	139.1	35.18
Leslie	29	12,570	.70	9.68	141.3	35.53
Magoffin	9	12,545	.62	9.68	145.8	36.58
Pike	67	12,653	.58	10.70	131.0	33.14
West Virginia	1,452	12,498	.64	11.06	154.9	38.72
Boone	84	12,361	.66	12.29	141.0	34.87
Fayette	4	12,459	.63	7.73	130.6	32.53
Kanawha	97	12,357	.65	12.23	139.6	34.49
Logan	1,257	12,518	.64	10.90	157.2	39.36
Mingo	9	12,558	.65	9.46	136.7	34.35
Deepwater Operating Co Deepwater	**193**	**12,938**	**.84**	**9.41**	**177.8**	**46.01**
West Virginia	193	12,938	.84	9.41	177.8	46.01
Barbour	49	12,712	.84	10.56	172.7	43.90
Braxton	93	13,175	.87	7.84	182.3	48.04
Nicholas	8	12,586	.73	12.00	180.9	45.54
Webster	43	12,749	.80	11.00	173.0	44.12
Delmarva Power & Light Co Edgemoor	**566**	**13,318**	**.85**	**7.78**	**200.3**	**53.35**
Virginia	51	13,403	.90	7.44	199.6	53.50
Wise	50	13,404	.90	7.43	199.6	53.52
Unknown	*	13,000	1.00	10.00	163.4	42.48
West Virginia	515	13,310	.84	7.82	200.3	53.33
Mingo	21	13,207	.70	7.89	173.9	45.94
Nicholas	7	13,422	.72	8.00	163.6	43.92
Webster	488	13,313	.85	7.81	202.0	53.78
Delmarva Power & Light Co Indian River	**1,626**	**12,936**	**1.01**	**9.03**	**174.7**	**45.21**
Kentucky	117	12,837	.67	7.25	193.9	49.79
Floyd	49	12,753	.76	7.43	195.1	49.77
Martin	22	12,894	.69	6.47	194.3	50.10
Pike	46	12,898	.57	7.43	192.5	49.66
Maryland	21	12,865	1.43	12.20	141.5	36.41
Garrett	21	12,865	1.43	12.20	141.5	36.41
Pennsylvania	423	12,964	1.33	9.26	162.8	42.20
Clearfield	7	13,427	1.39	9.80	158.1	42.46
Greene	29	13,372	1.21	5.85	163.0	43.59
Jefferson	373	12,900	1.34	9.55	163.1	42.09
Somerset	13	13,634	1.49	8.40	154.5	42.13
Virginia	176	13,116	.94	8.56	193.7	50.81
Lee	21	12,862	.85	6.80	181.5	46.68
Russell	15	12,900	.97	10.30	162.2	41.85
Wise	141	13,176	.95	8.64	198.7	52.35
West Virginia	889	12,902	.90	9.18	174.9	45.13
Boone	20	13,134	.77	6.89	179.4	47.12
Fayette	7	13,478	.69	5.73	197.9	53.35
Mcdowell	8	12,912	.70	6.66	203.1	52.45

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Delmarva Power & Light Co Indian River						
West Virginia						
Mingo	521	12,752	0.70	9.36	179.6	45.80
Nicholas	91	13,137	.75	7.97	172.7	45.36
Preston	200	13,192	1.55	9.66	161.6	42.64
Webster	41	12,661	.76	9.47	175.4	44.41
Unknown	*	12,500	1.60	12.00	129.4	32.35
Deseret Generation & Tran Coop Bonanza	**1,508**	**10,736**	**.48**	**8.86**	**223.3**	**47.95**
Colorado	1,508	10,736	.48	8.86	223.3	47.95
Rio Blanco	1,508	10,736	.48	8.86	223.3	47.95
Detroit Edison Co Harbor Beach	**53**	**13,276**	**.91**	**7.64**	**183.1**	**48.61**
West Virginia	53	13,276	.91	7.64	183.1	48.61
Nicholas	53	13,276	.91	7.64	183.1	48.61
Detroit Edison Co Belle River	**4,056**	**9,544**	**.34**	**4.07**	**145.5**	**27.78**
Montana	4,056	9,544	.34	4.07	145.5	27.78
Big Horn	4,056	9,544	.34	4.07	145.5	27.78
Detroit Edison Co Trenton Channel	**1,292**	**12,000**	**.73**	**7.10**	**196.9**	**47.25**
Kentucky	295	12,446	.87	8.64	211.8	52.73
Floyd	117	12,355	.87	9.31	231.5	57.20
Martin	171	12,497	.87	8.13	196.7	49.16
Pike	7	12,740	.86	10.10	256.5	65.36
Montana	332	9,543	.34	4.09	163.7	31.23
Big Horn	332	9,543	.34	4.09	163.7	31.23
West Virginia	665	13,029	.85	7.92	202.7	52.81
Boone	274	13,010	.91	8.69	234.1	60.90
Nicholas	391	13,042	.82	7.38	180.7	47.14
Detroit Edison Co Monroe	**8,073**	**11,479**	**.81**	**6.12**	**161.9**	**37.17**
Kentucky	2,266	12,769	1.12	7.75	182.5	46.61
Breathitt	91	12,267	1.11	8.90	138.2	33.90
Floyd	248	12,607	1.06	8.72	218.4	55.06
Knott	53	12,533	.90	9.46	161.7	40.53
Letcher	10	12,623	.94	8.80	168.1	42.44
Martin	534	12,454	.86	8.28	200.2	49.87
Perry	20	12,983	1.16	7.65	236.0	61.29
Pike	1,310	12,971	1.25	7.21	172.0	44.62
Montana	1,609	9,546	.34	4.06	150.1	28.66
Big Horn	1,609	9,546	.34	4.06	150.1	28.66
Pennsylvania	1,253	13,211	1.34	6.53	162.1	42.84
Greene	1,147	13,226	1.33	6.60	162.8	43.05
Washington	106	13,048	1.47	5.87	155.2	40.51
Virginia	113	13,296	1.44	7.52	185.8	49.42
Buchanan	113	13,296	1.44	7.52	185.8	49.42
West Virginia	1,209	13,347	.96	6.63	184.5	49.24
Boone	820	13,466	1.04	6.24	191.3	51.53
Nicholas	389	13,096	.80	7.43	169.6	44.43
Wyoming	1,623	8,741	.29	5.07	104.0	18.18
Campbell	878	8,695	.27	4.78	103.2	17.94
Converse	745	8,796	.32	5.40	104.9	18.45
Detroit Edison Co River Rouge	**987**	**12,523**	**.70**	**10.09**	**166.2**	**41.62**
Kentucky	255	12,555	.81	7.95	202.9	50.95
Martin	255	12,555	.81	7.95	202.9	50.95
West Virginia	716	12,595	.68	10.97	154.1	38.80
Logan	680	12,566	.67	11.20	152.9	38.42
Nicholas	36	13,132	.70	6.60	175.1	45.99
Wyoming	16	8,790	.29	5.12	107.4	18.88
Campbell	5	8,775	.22	4.68	108.3	19.01
Converse	11	8,797	.32	5.33	106.9	18.82
Detroit Edison Co St Clair	**5,155**	**9,740**	**.53**	**4.55**	**140.5**	**27.37**
Montana	4,523	9,522	.34	4.07	142.4	27.13
Big Horn	4,523	9,522	.34	4.07	142.4	27.13

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Detroit Edison Co St Clair						
Ohio	35	12,546	2.89	9.62	136.5	34.25
Harrison	35	12,546	2.89	9.62	136.5	34.25
Pennsylvania	267	12,730	2.83	9.42	129.1	32.88
Clarion	267	12,730	2.83	9.42	129.1	32.88
West Virginia	99	12,861	2.73	10.13	142.3	36.60
Harrison	28	12,640	2.86	10.72	134.5	34.01
Monongalia	71	12,949	2.68	9.90	145.3	37.62
Wyoming	231	8,792	.30	5.26	117.8	20.71
Campbell	47	8,822	.21	4.45	115.4	20.36
Converse	184	8,784	.32	5.47	118.4	20.80
Duke Power Co Cliffside	**908**	**12,560**	**1.03**	**9.32**	**180.8**	**45.42**
Kentucky	889	12,563	1.03	9.28	181.6	45.62
Harlan	656	12,625	1.06	9.00	192.0	48.49
Laurel	72	12,230	.96	10.71	141.5	34.61
Letcher	41	12,423	.95	9.97	158.7	39.42
Perry	62	12,379	.93	9.96	151.9	37.60
Pike	58	12,562	1.00	9.42	158.2	39.74
Virginia	19	12,419	1.01	11.31	145.8	36.21
Buchanan	2	12,302	.92	10.30	137.3	33.78
Dickenson	17	12,433	1.02	11.42	146.8	36.49
Duke Power Co Allen	**1,255**	**12,576**	**1.03**	**11.26**	**179.1**	**45.04**
Virginia	1,255	12,576	1.03	11.26	179.1	45.04
Wise	1,255	12,576	1.03	11.26	179.1	45.04
Duke Power Co Belews Creek	**3,342**	**12,469**	**.98**	**9.02**	**186.7**	**46.57**
Kentucky	3,079	12,431	.96	9.00	187.9	46.71
Bell	147	12,537	.97	8.00	167.9	42.10
Martin	2,855	12,410	.95	9.13	190.3	47.24
Pike	77	12,993	1.27	6.36	137.4	35.70
Virginia	225	12,903	1.19	9.47	180.2	46.50
Wise	225	12,903	1.19	9.47	180.2	46.50
West Virginia	38	12,954	1.26	7.75	137.0	35.49
Mingo	38	12,954	1.26	7.75	137.0	35.49
Duke Power Co Buck	**83**	**12,809**	**.95**	**9.06**	**173.8**	**44.52**
Kentucky	42	12,892	.84	7.93	167.1	43.08
Bell	9	12,583	.68	6.70	188.5	47.44
Martin	12	12,436	.94	9.17	160.1	39.82
Pike	21	13,284	.85	7.74	162.2	43.08
Virginia	27	12,991	1.08	9.98	190.5	49.49
Russell	5	13,146	.82	10.60	154.2	40.54
Wise	22	12,955	1.14	9.84	198.9	51.53
West Virginia	14	12,209	1.02	10.67	160.6	39.22
Mingo	14	12,209	1.02	10.67	160.6	39.22
Duke Power Co Lee	**309**	**12,624**	**1.00**	**9.13**	**154.7**	**39.07**
Kentucky	293	12,638	1.01	8.94	155.1	39.19
Clay	9	12,837	1.13	8.80	157.2	40.36
Harlan	188	12,721	1.07	8.16	154.5	39.31
Knott	14	12,166	.67	10.70	158.3	38.52
Laurel	27	12,222	.96	10.20	152.8	37.35
Letcher	24	12,713	.69	10.53	154.3	39.22
Pike	31	12,592	1.05	10.62	159.1	40.07
Virginia	16	12,373	.84	12.62	148.8	36.82
Buchanan	7	12,535	.74	11.23	149.4	37.46
Dickenson	9	12,246	.92	13.70	148.3	36.33
Duke Power Co Dan River	**269**	**12,726**	**.96**	**9.06**	**153.7**	**39.13**
Kentucky	120	12,889	1.07	7.27	158.8	40.94
Bell	31	12,614	.93	7.30	183.2	46.21
Pike	89	12,984	1.12	7.27	150.6	39.10
Virginia	47	12,855	.92	10.43	159.5	41.01
Russell	29	13,091	.73	9.82	148.2	38.81
Wise	18	12,475	1.24	11.41	178.6	44.56

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Duke Power Co Dan River						
West Virginia	102	12,476	0.85	10.54	144.8	36.13
Mingo	102	12,476	.85	10.54	144.8	36.13
Duke Power Co Riverbend	**243**	**12,656**	**1.02**	**9.20**	**167.3**	**42.35**
Kentucky	234	12,667	1.03	9.16	168.0	42.56
Breathitt	6	11,981	1.01	9.10	157.9	37.84
Harlan	158	12,798	1.07	8.90	176.9	45.28
Laurel	27	12,401	.95	10.50	141.5	35.10
Letcher	17	12,612	.77	8.10	161.8	40.81
Perry	26	12,344	1.02	10.08	145.9	36.01
West Virginia	9	12,375	.83	10.10	149.1	36.90
Boone	9	12,375	.83	10.10	149.1	36.90
Duke Power Co Marshall	**3,848**	**12,539**	**1.03**	**9.87**	**167.3**	**41.96**
Kentucky	1,519	12,451	1.02	9.03	161.7	40.27
Bell	79	12,520	.96	7.96	170.5	42.70
Breathitt	12	12,256	.99	8.70	157.9	38.70
Clay	17	12,926	1.10	8.00	146.5	37.87
Floyd	7	12,511	.95	8.30	165.9	41.51
Harlan	408	12,412	1.06	9.64	186.2	46.23
Knott	13	12,143	.77	11.23	165.6	40.22
Laurel	170	12,177	.90	10.75	146.3	35.63
Letcher	17	12,395	1.21	11.10	165.6	41.05
Martin	564	12,410	.94	8.82	154.0	38.23
Perry	37	12,076	.99	9.91	153.2	37.00
Pike	195	12,931	1.29	6.93	145.4	37.59
Virginia	1,808	12,583	1.06	10.78	179.4	45.15
Wise	1,808	12,583	1.06	10.78	179.4	45.15
West Virginia	521	12,645	.96	9.14	141.6	35.81
Mingo	521	12,645	.96	9.14	141.6	35.81
Duquesne Light Co Cheswick	**1,427**	**12,404**	**1.60**	**11.81**	**143.1**	**35.51**
Pennsylvania	848	12,431	1.57	11.23	147.3	36.63
Allegheny	583	12,298	1.48	11.69	145.1	35.68
Beaver	2	11,858	2.20	12.42	113.9	27.01
Fayette	10	13,189	1.35	6.75	124.2	32.76
Greene	147	12,875	1.94	9.74	175.6	45.22
Indiana	36	12,581	1.58	11.53	125.5	31.59
Washington	70	12,430	1.52	11.02	120.2	29.87
West Virginia	579	12,365	1.63	12.67	137.0	33.87
Monongalia	572	12,370	1.63	12.64	136.9	33.87
Preston	7	11,941	1.64	15.05	140.0	33.43
Duquesne Light Co Elrama	**811**	**12,268**	**1.94**	**12.11**	**143.4**	**35.19**
Pennsylvania	604	12,315	1.91	11.72	151.3	37.26
Allegheny	245	12,440	1.97	11.50	133.4	33.20
Beaver	75	12,163	2.05	12.79	109.2	26.56
Greene	151	12,492	1.70	10.81	234.6	58.61
Washington	133	11,972	1.96	12.57	110.8	26.53
West Virginia	207	12,128	2.03	13.23	120.2	29.15
Monongalia	172	12,113	2.05	13.11	122.1	29.57
Preston	35	12,202	1.92	13.86	111.0	27.09
East Kentucky Power Coop Spurlock	**1,946**	**12,192**	**1.10**	**11.36**	**118.8**	**28.96**
Kentucky	969	12,117	1.28	10.71	120.7	29.26
Boyd	230	12,682	.69	10.13	125.4	31.80
Floyd	145	11,643	1.30	12.74	120.7	28.12
Greenup	277	11,550	2.44	10.79	108.7	25.11
Knott	65	12,941	.71	7.32	140.0	36.23
Magoffin	113	12,156	.67	10.54	119.2	28.98
Perry	65	12,499	.73	9.63	124.5	31.13
Pike	68	12,362	.62	12.29	131.7	32.57
Unknown	6	11,555	.63	14.40	99.9	23.08
Ohio	25	11,409	2.75	10.81	102.8	23.45
Hocking	6	12,038	2.08	8.65	97.0	23.35
Jackson	19	11,211	2.96	11.49	104.7	23.48

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
East Kentucky Power Coop Spurlock						
West Virginia	941	12,334	0.88	12.11	117.1	28.88
Boone	21	12,404	.61	10.93	114.1	28.30
Fayette	533	12,358	1.06	12.38	116.8	28.87
Logan	338	12,321	.66	11.99	117.2	28.88
Mingo	27	11,947	.61	11.26	122.1	29.18
Nicholas	1	12,859	.53	7.80	127.1	32.69
Wayne	21	12,366	.62	9.64	116.8	28.90
Wyoming	11	8,442	.33	5.60	133.0	22.46
Campbell	11	8,442	.33	5.60	133.0	22.46
East Kentucky Power Coop Cooper	**652**	**12,054**	**1.53**	**11.10**	**120.1**	**28.94**
Kentucky	630	12,030	1.55	11.21	120.3	28.95
Clay	129	12,482	1.50	9.16	114.5	28.58
Jackson	27	11,703	1.45	12.50	107.4	25.14
Laurel	26	11,885	1.76	11.07	120.6	28.66
Leslie	4	12,038	2.26	11.70	109.0	26.25
Perry	25	11,893	1.38	10.70	128.6	30.59
Pulaski	419	11,929	1.56	11.79	122.6	29.25
Tennessee	21	12,756	1.00	7.97	113.0	28.84
Fentress	*	11,896	1.94	14.60	95.2	22.65
Scott	21	12,773	.98	7.85	113.4	28.96
East Kentucky Power Coop Dale	**256**	**12,133**	**.82**	**10.20**	**120.7**	**29.30**
Kentucky	256	12,133	.82	10.20	120.7	29.30
Breathitt	16	11,947	.99	10.43	123.6	29.54
Clay	12	12,863	.93	7.57	133.9	34.46
Knott	30	12,233	.77	10.41	113.7	27.81
Letcher	1	12,889	.73	6.30	137.9	35.55
Magoffin	24	11,953	.69	9.88	123.7	29.57
Owsley	8	11,607	.95	10.38	123.0	28.55
Perry	165	12,127	.82	10.40	120.1	29.13
Electric Energy Inc Joppa	**3,477**	**11,557**	**1.95**	**8.69**	**117.4**	**27.13**
Illinois	1,731	12,003	2.03	8.64	121.2	29.10
Jefferson	316	11,746	1.57	7.64	137.1	32.21
Saline	1,096	12,198	1.93	8.24	117.7	28.71
Williamson	318	11,588	2.80	11.03	118.1	27.38
Indiana	985	10,908	2.09	9.20	108.0	23.57
Daviess	52	10,958	1.97	9.82	117.8	25.82
Dubois	73	11,140	1.55	9.21	116.4	25.93
Gibson	500	10,824	1.79	8.90	103.7	22.44
Pike	332	10,991	2.60	9.50	111.6	24.54
Warrick	27	10,724	2.96	9.85	102.0	21.88
Kentucky	717	11,549	1.68	8.33	119.7	27.64
Daviess	3	11,062	2.88	13.30	102.0	22.57
Hopkins	47	11,731	3.30	11.37	116.7	27.39
Ohio	524	11,457	1.56	7.17	116.5	26.69
Union	144	11,837	1.56	11.47	132.2	31.30
Wyoming	44	8,636	.37	5.16	118.8	20.51
Campbell	32	8,593	.38	5.07	119.0	20.45
Converse	12	8,749	.33	5.40	118.1	20.67
Empire District Electric Co Riverton	**230**	**10,417**	**1.35**	**8.11**	**117.6**	**24.49**
Kansas	110	12,170	2.59	11.98	118.2	28.76
Crawford	110	12,170	2.59	11.98	118.2	28.76
Wyoming	121	8,824	.22	4.61	116.8	20.61
Campbell	121	8,824	.22	4.61	116.8	20.61
Empire District Electric Co Asbury	**677**	**10,120**	**1.42**	**7.52**	**108.0**	**21.86**
Kansas	267	12,136	3.25	12.00	116.6	28.30
Crawford	267	12,136	3.25	12.00	116.6	28.30
Wyoming	410	8,807	.23	4.60	100.3	17.66
Campbell	410	8,807	.23	4.60	100.3	17.66
Florida Power Corp Crystal River	**5,542**	**12,684**	**.81**	**8.40**	**177.2**	**44.94**
Kentucky	3,910	12,770	.86	7.94	162.8	41.57
Breathitt	387	12,266	1.01	8.30	136.3	33.43
Floyd	5	12,076	.70	10.58	176.0	42.50
Harlan	927	12,440	1.04	9.46	177.0	44.04

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Florida Power Corp — Crystal River						
Kentucky						
Knott	46	12,618	0.78	8.73	183.1	46.22
Letcher	2,153	12,998	.79	7.11	164.6	42.79
Perry	46	12,557	.68	9.54	194.8	48.91
Pike	346	12,856	.71	8.26	135.8	34.91
Virginia	879	12,389	.71	9.21	245.2	60.75
Lee	879	12,389	.71	9.21	245.2	60.75
West Virginia	752	12,582	.66	9.85	174.9	44.00
Boone	659	12,556	.64	9.82	174.7	43.86
Fayette	50	12,981	.70	9.71	196.6	51.04
Kanawha	44	12,526	.94	10.32	151.9	38.06
Fremont City of — Wright	**191**	**8,624**	**.38**	**5.33**	**82.4**	**14.21**
Wyoming	191	8,624	.38	5.33	82.4	14.21
Campbell	189	8,623	.38	5.32	82.3	14.19
Converse	2	8,698	.41	7.50	90.9	15.81
Gainesville Regional Util — Deerhaven	**587**	**13,097**	**.66**	**6.53**	**180.1**	**47.17**
Kentucky	441	13,104	.65	6.03	180.9	47.40
Letcher	137	13,076	.72	6.37	193.8	50.69
Pike	304	13,116	.62	5.87	175.0	45.91
West Virginia	146	13,076	.68	8.05	177.8	46.49
Logan	146	13,076	.68	8.05	177.8	46.49
Georgia Power Co — Harllee Branch	**4,000**	**12,460**	**1.26**	**9.77**	**175.5**	**43.73**
Kentucky	3,431	12,368	1.32	10.12	168.9	41.79
Bell	61	12,117	1.44	11.15	197.0	47.73
Breathitt	823	12,116	1.44	9.58	161.4	39.10
Clay	2	12,389	1.35	11.14	152.7	37.84
Floyd	9	11,815	1.63	12.20	149.2	35.26
Harlan	737	12,571	1.42	9.52	162.5	40.86
Knott	250	12,424	1.12	11.10	178.1	44.25
Leslie	227	12,389	1.36	10.94	156.6	38.81
Letcher	245	12,259	1.42	12.07	188.5	46.22
Perry	932	12,414	1.10	10.20	176.6	43.84
Pike	136	12,692	1.45	8.85	158.3	40.18
Union	9	12,455	2.26	9.56	119.0	29.64
Tennessee	530	13,029	.83	7.42	214.4	55.86
Claiborne	530	13,029	.83	7.42	214.4	55.86
Virginia	39	12,736	1.53	11.42	192.0	48.91
Lee	39	12,736	1.53	11.42	192.0	48.91
West Virginia	*	12,106	.66	11.70	261.4	63.29
Mingo	*	12,106	.66	11.70	261.4	63.29
Georgia Power Co — Arkwright	**194**	**12,533**	**2.09**	**10.72**	**162.8**	**40.81**
Kentucky	64	12,606	2.12	10.54	160.3	40.41
Harlan	64	12,606	2.12	10.54	160.3	40.41
Tennessee	107	12,448	2.12	10.94	164.3	40.91
Anderson	90	12,486	2.10	10.77	164.5	41.07
Campbell	17	12,253	2.22	11.81	163.5	40.06
Virginia	23	12,722	1.83	10.17	163.1	41.50
Wise	23	12,722	1.83	10.17	163.1	41.50
Georgia Power Co — Atkinson-Mcdonoug	**1,471**	**11,990**	**2.00**	**9.89**	**169.2**	**40.58**
Alabama	5	12,160	1.36	12.39	158.0	38.43
Walker	5	12,160	1.36	12.39	158.0	38.43
Illinois	313	11,415	2.80	9.14	196.4	44.84
Franklin	173	11,700	2.46	7.81	210.7	49.30
Perry	114	10,996	3.32	10.40	185.1	40.70
Saline	27	11,350	2.77	12.48	147.8	33.56
Kentucky	862	12,128	1.88	10.59	165.9	40.25
Harlan	27	12,451	1.27	10.16	152.6	38.01
Hopkins	183	11,703	2.91	10.41	171.1	40.05
Knott	*	12,107	1.48	11.39	174.7	42.30
Leslie	34	12,579	1.47	9.83	176.0	44.27
Letcher	17	12,377	.92	11.81	158.4	39.21
Perry	434	12,204	1.39	10.80	171.7	41.91
Union	161	12,238	2.32	10.28	147.2	36.02
Unknown	5	11,968	3.09	11.18	113.3	27.12

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Georgia Power Co Atkinson-Mcdonoug						
Tennessee	53	12,597	1.58	8.78	149.4	37.64
Claiborne	53	12,597	1.58	8.78	149.4	37.64
Virginia	186	12,853	1.72	9.27	152.5	39.20
Wise	186	12,853	1.72	9.27	152.5	39.20
West Virginia	9	12,628	2.23	9.58	116.8	29.50
Mingo	9	12,628	2.23	9.58	116.8	29.50
Wyoming	43	8,764	.32	5.25	161.3	28.28
Campbell	4	8,645	.33	4.75	161.8	27.98
Converse	39	8,777	.32	5.30	161.3	28.31
Georgia Power Co Bowen	**8,340**	**12,131**	**1.60**	**10.87**	**170.9**	**41.46**
Kentucky	8,340	12,131	1.60	10.87	170.9	41.46
Bell	2,243	12,105	1.42	11.16	173.5	42.01
Clay	139	12,197	1.45	10.92	168.5	41.10
Harlan	55	12,790	1.25	9.45	141.2	36.12
Hopkins	1,207	11,728	3.04	10.34	164.3	38.53
Knott	390	12,098	1.46	11.40	168.8	40.85
Leslie	2,172	12,170	1.43	11.23	160.7	39.11
Perry	2,133	12,331	1.18	10.42	183.3	45.22
Georgia Power Co Hammond	**2,004**	**12,822**	**1.67**	**9.83**	**168.7**	**43.26**
Alabama	66	12,136	1.95	11.74	157.8	38.30
Tuscaloosa	66	12,136	1.95	11.74	157.8	38.30
Kentucky	187	12,393	2.07	10.92	158.3	39.24
Bell	25	12,459	1.60	9.41	153.8	38.33
Harlan	162	12,383	2.15	11.15	159.0	39.38
Tennessee	448	12,620	1.80	9.40	153.8	38.82
Anderson	157	12,388	2.07	10.65	154.1	38.19
Campbell	34	12,095	2.21	11.33	154.5	37.37
Claiborne	205	12,813	1.47	8.08	153.5	39.33
Morgan	42	12,981	2.07	9.43	152.2	39.53
Scott	8	12,617	1.68	10.01	160.2	40.43
Virginia	1,300	12,990	1.55	9.73	175.7	45.64
Dickenson	3	11,882	1.48	12.67	151.2	35.93
Lee	237	12,665	1.53	11.06	179.8	45.55
Russell	84	13,138	.76	9.51	149.2	39.20
Wise	976	13,059	1.63	9.41	177.0	46.24
West Virginia	3	12,278	1.87	11.58	160.2	39.34
Mingo	3	12,278	1.87	11.58	160.2	39.34
Georgia Power Co Yates	**2,676**	**12,079**	**2.02**	**10.18**	**175.2**	**42.32**
Alabama	168	12,123	2.08	11.93	153.9	37.31
Fayette	168	12,123	2.08	11.93	153.9	37.31
Illinois	734	11,346	2.91	9.29	197.7	44.85
Franklin	350	11,682	2.51	7.99	213.4	49.86
Perry	352	11,011	3.33	10.27	185.8	40.92
Saline	33	11,367	2.79	12.65	148.9	33.85
Kentucky	674	12,376	1.92	10.61	155.4	38.47
Bell	189	12,457	1.44	9.09	154.0	38.37
Harlan	420	12,384	2.05	11.26	157.2	38.92
Hopkins	5	11,959	3.09	9.80	122.5	29.29
Union	41	12,183	2.46	10.55	148.7	36.24
Whitley	18	11,916	2.46	11.99	154.4	36.81
Ohio	13	11,925	2.72	12.53	142.1	33.88
Belmont	13	11,925	2.72	12.53	142.1	33.88
Tennessee	131	12,691	1.80	9.23	155.7	39.53
Anderson	7	12,226	1.99	11.95	152.7	37.35
Campbell	45	11,951	2.07	12.30	159.2	38.05
Claiborne	76	13,168	1.61	7.14	154.2	40.61
Morgan	3	12,783	2.00	10.03	153.6	39.27
Virginia	865	12,733	1.52	10.94	181.7	46.27
Dickenson	3	11,892	1.86	13.70	151.2	35.96
Lee	755	12,702	1.49	11.28	184.8	46.96
Wise	108	12,970	1.70	8.49	160.7	41.70
Wyoming	91	8,626	.31	4.74	158.3	27.31
Campbell	58	8,562	.32	4.56	156.7	26.84
Converse	33	8,739	.31	5.05	160.9	28.13
Georgia Power Co Mitchell	**269**	**12,449**	**1.37**	**10.11**	**208.9**	**52.00**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Georgia Power Co — Mitchell						
Kentucky	269	12,449	1.37	10.11	208.9	52.00
Clay	104	12,121	1.42	11.11	220.9	53.55
Harlan	35	12,530	1.36	9.51	187.8	47.05
Leslie	58	12,476	1.39	10.38	213.8	53.35
Perry	71	12,868	1.26	8.72	198.6	51.11
Georgia Power Co — Scherer	**3,522**	**10,764**	**.52**	**7.99**	**201.0**	**43.28**
Virginia	508	13,340	.77	7.80	167.5	44.68
Wise	508	13,340	.77	7.80	167.5	44.68
West Virginia	1,484	12,098	.66	11.46	248.4	60.09
Mingo	1,484	12,098	.66	11.46	248.4	60.09
Wyoming	1,529	8,613	.30	4.68	153.7	26.48
Campbell	1,225	8,578	.30	4.51	155.9	26.74
Converse	303	8,755	.32	5.37	145.4	25.45
Georgia Power Co — Wansley	**4,621**	**11,099**	**2.57**	**9.09**	**191.1**	**42.42**
Illinois	3,833	11,352	2.87	9.20	198.1	44.98
Franklin	1,941	11,670	2.50	7.95	212.9	49.68
Perry	1,734	10,996	3.30	10.30	185.3	40.75
Saline	158	11,357	2.77	12.49	148.1	33.64
Kentucky	259	11,879	2.51	11.04	143.8	34.16
Hopkins	80	11,961	3.10	8.35	132.9	31.80
Perry	24	10,043	.87	23.41	144.1	28.94
Union	155	12,117	2.45	10.54	149.3	36.18
Ohio	33	11,925	2.72	12.53	142.1	33.88
Belmont	33	11,925	2.72	12.53	142.1	33.88
Wyoming	496	8,684	.32	7.01	158.6	27.55
Campbell	243	8,590	.31	4.59	157.3	27.03
Converse	253	8,775	.32	9.34	159.8	28.05
Grand Haven City of — J B Simms	**199**	**11,111**	**2.77**	**10.72**	**153.9**	**34.20**
Indiana	148	10,919	2.69	10.93	158.8	34.67
Greene	148	10,919	2.69	10.93	158.8	34.67
Kentucky	50	11,678	2.99	10.11	140.5	32.81
Muhlenberg	50	11,678	2.99	10.11	140.5	32.81
Grand Island City of — Platte	**283**	**8,397**	**.36**	**5.91**	**68.4**	**11.49**
Wyoming	283	8,397	.36	5.91	68.4	11.49
Campbell	283	8,397	.36	5.91	68.4	11.49
Grand River Dam Authority — GRDA 1	**3,465**	**8,631**	**.50**	**5.04**	**101.4**	**17.50**
Oklahoma	177	12,851	3.86	8.62	107.0	27.49
Craig	14	12,468	3.31	11.81	104.1	25.95
Nowata	61	13,182	4.00	7.70	111.9	29.49
Rogers	101	12,705	3.86	8.72	104.3	26.50
Wyoming	3,288	8,404	.32	4.85	100.9	16.96
Campbell	3,288	8,404	.32	4.85	100.9	16.96
Gulf Power Co — Crist	**2,108**	**12,035**	**2.81**	**8.29**	**188.6**	**45.39**
Illinois	1,352	12,009	2.76	8.77	214.3	51.47
Gallatin	1,148	12,002	2.75	8.87	214.2	51.42
Randolph	204	12,047	2.85	8.20	214.6	51.71
Kentucky	721	12,014	2.89	7.49	139.8	33.60
Hopkins	423	12,056	2.98	7.21	136.7	32.96
Union	186	11,926	2.64	7.57	147.4	35.15
Webster	111	11,999	3.01	8.44	139.3	33.44
West Virginia	35	13,459	2.72	6.30	197.4	53.13
Monongalia	35	13,459	2.72	6.30	197.4	53.13
Gulf Power Co — Smith	**668**	**12,012**	**2.76**	**8.67**	**203.5**	**48.90**
Illinois	528	11,990	2.73	8.95	218.5	52.41
Gallatin	493	11,986	2.73	9.01	218.6	52.41
Randolph	35	12,040	2.79	8.18	217.2	52.31
Kentucky	128	11,969	2.87	7.78	143.2	34.28
Hopkins	52	11,982	3.02	7.43	137.9	33.05
Union	57	11,944	2.69	7.97	148.4	35.46
Webster	18	12,015	3.01	8.18	141.9	34.09

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Gulf Power Co — Smith						
West Virginia	12	13,372	2.58	6.10	186.0	49.74
Monongalia	12	13,372	2.58	6.10	186.0	49.74
Gulf Power Co — Scholtz	**236**	**12,347**	**2.78**	**8.35**	**159.9**	**39.49**
Kentucky	236	12,347	2.78	8.35	159.9	39.49
Hopkins	36	12,052	2.69	7.47	164.4	39.62
Webster	200	12,400	2.80	8.51	159.1	39.46
Gulf States Utilities Co — Nelson	**2,059**	**8,805**	**.49**	**5.86**	**192.6**	**33.91**
Wyoming	2,059	8,805	.49	5.86	192.6	33.91
Campbell	2,059	8,805	.49	5.86	192.6	33.91
Hamilton City of — Hamilton	**96**	**12,351**	**.65**	**10.09**	**157.5**	**38.90**
West Virginia	96	12,351	.65	10.09	157.5	38.90
Boone	35	12,428	.65	9.83	164.2	40.81
Fayette	61	12,306	.65	10.24	153.5	37.79
Hastings City of — Hastings	**187**	**8,682**	**.27**	**4.87**	**103.7**	**18.00**
Wyoming	187	8,682	.27	4.87	103.7	18.00
Campbell	187	8,682	.27	4.87	103.7	18.00
Holland City of — James De Young	**185**	**13,251**	**.82**	**5.98**	**172.9**	**45.82**
Kentucky	185	13,251	.82	5.98	172.9	45.82
Magoffin	185	13,251	.82	5.98	172.9	45.82
Holyoke Water Power Co — Mount Tom	**405**	**13,055**	**1.38**	**6.55**	**177.2**	**46.26**
Pennsylvania	405	13,055	1.38	6.55	177.2	46.26
Clearfield	9	13,500	1.20	7.80	177.8	48.01
Greene	346	13,022	1.37	6.57	176.4	45.95
Washington	50	13,203	1.51	6.18	181.9	48.05
Hoosier Energy R E C Inc — Merom	**2,114**	**11,002**	**3.84**	**12.01**	**119.7**	**26.33**
Indiana	2,114	11,002	3.84	12.01	119.7	26.33
Clay	964	10,907	3.94	11.41	157.5	34.35
Daviess	183	10,908	3.22	11.59	87.8	19.16
Greene	441	11,161	3.82	12.98	75.6	16.88
Pike	516	11,080	3.90	12.46	99.6	22.08
Vigo	9	10,773	3.42	12.50	91.2	19.65
Hoosier Energy R E C Inc — Frank E Ratts	**638**	**11,158**	**3.09**	**10.02**	**131.9**	**29.44**
Indiana	638	11,158	3.09	10.02	131.9	29.44
Pike	638	11,158	3.09	10.02	131.9	29.44
Houston Lighting & Power Co — Limestone	**7,392**	**6,584**	**.92**	**16.43**	**148.4**	**19.55**
Texas	7,392	6,584	.92	16.43	148.4	19.55
Freestone	7,392	6,584	.92	16.43	148.4	19.55
Houston Lighting & Power Co — Parish	**9,061**	**8,463**	**.41**	**5.35**	**233.6**	**39.54**
Wyoming	9,061	8,463	.41	5.35	233.6	39.54
Campbell	9,061	8,463	.41	5.35	233.6	39.54
Illinois Power Co — Baldwin	**3,995**	**10,919**	**3.06**	**10.38**	**147.6**	**32.23**
Illinois	3,995	10,919	3.06	10.38	147.6	32.23
Perry	1,818	10,998	3.19	10.09	152.2	33.47
Randolph	1,373	10,852	2.96	10.62	143.7	31.19
Washington	804	10,852	2.96	10.64	143.7	31.19
Illinois Power Co — Hennepin	**688**	**10,456**	**2.69**	**9.99**	**148.2**	**30.98**
Illinois	630	10,629	2.91	10.47	149.8	31.85
Fulton	9	10,384	2.67	12.00	162.7	33.79
Randolph	370	10,602	2.89	10.64	147.3	31.23
Schuyler	36	11,162	3.23	7.20	186.5	41.63
Washington	214	10,597	2.89	10.65	147.2	31.21
Wyoming	59	8,602	.27	4.86	126.2	21.71
Campbell	59	8,602	.27	4.86	126.2	21.71
Illinois Power Co — Havana	**496**	**12,488**	**.66**	**8.45**	**158.0**	**39.47**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Illinois Power Co Havana						
Kentucky	333	12,855	0.70	7.74	159.5	41.00
Floyd	18	12,329	.64	7.70	142.9	35.24
Harlan	2	12,388	.61	9.08	147.2	36.47
Letcher	310	12,882	.70	7.76	160.5	41.35
Pike	3	13,510	.68	5.60	155.3	41.96
West Virginia	120	12,237	.64	10.05	146.8	35.94
Boone	40	12,433	.70	9.03	147.0	36.56
Logan	68	12,093	.60	11.14	146.8	35.51
Wayne	12	12,394	.64	7.27	146.4	36.30
Wyoming	43	10,365	.49	9.50	181.0	37.52
Carbon	43	10,365	.49	9.50	181.0	37.52
Illinois Power Co Wood River	**738**	**12,370**	**.86**	**6.33**	**167.7**	**41.50**
Illinois	472	12,157	.95	5.09	168.8	41.03
Jefferson	472	12,157	.95	5.09	168.8	41.03
Kentucky	21	12,527	.62	9.88	166.4	41.69
Harlan	15	12,370	.59	9.12	162.6	40.23
Letcher	6	12,920	.71	11.80	175.6	45.38
Tennessee	155	13,205	.77	6.76	168.8	44.58
Claiborne	155	13,205	.77	6.76	168.8	44.58
West Virginia	69	12,491	.70	10.80	158.9	39.70
Kanawha	31	12,625	.75	11.06	155.3	39.21
Logan	39	12,384	.65	10.59	161.9	40.09
Wyoming	20	10,356	.37	13.10	166.9	34.57
Carbon	20	10,356	.37	13.10	166.9	34.57
Illinois Power Co Vermilion	**387**	**10,695**	**2.47**	**11.81**	**122.5**	**26.21**
Illinois	197	10,661	2.59	12.44	124.9	26.64
Douglas	197	10,661	2.59	12.44	124.9	26.64
Indiana	190	10,729	2.35	11.15	120.1	25.76
Owen	190	10,729	2.35	11.15	120.1	25.76
Independence City of Blue Valley	**30**	**12,153**	**3.23**	**11.83**	**158.1**	**38.42**
Kansas	30	12,153	3.23	11.83	158.1	38.42
Crawford	30	12,153	3.23	11.83	158.1	38.42
Indiana Michigan Power Co Breed	**500**	**10,773**	**3.81**	**11.17**	**148.4**	**31.98**
Indiana	500	10,773	3.81	11.17	148.4	31.98
Clay	250	10,773	3.81	11.17	148.4	31.98
Vigo	250	10,773	3.81	11.17	148.4	31.98
Indiana Michigan Power Co Tanners Creek	**2,378**	**11,616**	**1.84**	**8.98**	**169.3**	**39.33**
Illinois	122	10,925	2.63	9.01	129.9	28.38
Wabash	122	10,925	2.63	9.01	129.9	28.38
Indiana	1,134	10,990	2.64	8.86	127.3	27.99
Daviess	113	11,597	2.65	7.09	112.6	26.12
Warrick	1,021	10,923	2.64	9.05	129.1	28.20
Kentucky	909	12,392	1.00	8.64	208.4	51.66
Floyd	6	11,858	.70	11.60	221.8	52.60
Hopkins	124	11,367	2.87	9.93	115.1	26.18
Johnson	18	11,808	.69	11.44	221.8	52.38
Letcher	307	12,737	.71	7.93	221.8	56.50
Pike	55	11,922	.63	9.81	221.8	52.88
Unknown	399	12,547	.72	8.46	221.8	55.66
West Virginia	213	12,027	.65	11.05	221.8	53.35
Logan	84	12,016	.65	10.94	221.8	53.31
Mingo	100	12,065	.65	10.87	221.8	53.52
Wayne	29	11,926	.68	12.01	221.8	52.90
Indiana Michigan Power Co Rockport	**9,954**	**8,575**	**.32**	**4.99**	**121.1**	**20.77**
Wyoming	9,954	8,575	.32	4.99	121.1	20.77
Campbell	9,954	8,575	.32	4.99	121.1	20.77
Indiana-Kentucky Electric Corp Clifty Creek	**4,402**	**11,372**	**3.40**	**10.98**	**103.9**	**23.63**
Indiana	899	10,876	3.15	9.96	99.8	21.70
Pike	37	11,654	3.26	7.91	112.0	26.10
Spencer	90	10,893	3.33	10.84	99.9	21.76
Warrick	772	10,836	3.13	9.96	99.1	21.48

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Indiana-Kentucky Electric Corp Clifty Creek						
Kentucky	3,503	11,500	3.47	11.24	104.9	24.13
Daviess	573	11,204	3.25	9.38	113.3	25.38
Henderson	2	11,082	2.47	8.70	90.7	20.10
Hopkins	2,379	11,568	3.59	11.92	104.8	24.25
Mclean	195	11,747	3.10	11.12	97.0	22.78
Ohio	354	11,389	3.16	9.79	96.8	22.05
Indianapolis Power & Light Co Stout	**1,306**	**11,171**	**1.56**	**8.09**	**130.0**	**29.05**
Indiana	1,304	11,168	1.56	8.09	130.1	29.05
Clay	216	11,340	1.55	6.19	119.2	27.03
Greene	662	11,232	1.37	7.85	123.1	27.66
Sullivan	426	10,981	1.86	9.43	146.8	32.24
Kentucky	2	13,283	.84	5.99	110.0	29.22
Pike	2	13,283	.84	5.99	110.0	29.22
Indianapolis Power & Light Co Petersburg	**4,372**	**11,225**	**2.58**	**7.92**	**100.4**	**22.54**
Indiana	4,372	11,225	2.58	7.92	100.4	22.54
Daviess	810	11,512	2.15	7.84	108.9	25.07
Greene	82	11,338	1.05	6.24	119.4	27.07
Pike	52	11,231	2.20	7.70	82.9	18.62
Vigo	162	11,488	2.67	7.66	81.0	18.62
Warrick	3,266	11,138	2.73	7.99	99.0	22.05
Indianapolis Power & Light Co Pritchard	**295**	**11,331**	**1.42**	**6.98**	**119.3**	**27.03**
Indiana	295	11,331	1.42	6.98	119.3	27.03
Clay	20	11,526	.93	5.17	116.6	26.88
Greene	178	11,365	1.03	6.71	117.6	26.73
Sullivan	22	10,885	.53	8.23	158.3	34.46
Warrick	75	11,330	2.72	7.75	113.0	25.59
Interstate Power Co Fox Lake	**59**	**10,992**	**1.96**	**9.50**	**163.8**	**36.00**
Indiana	59	10,992	1.96	9.50	163.8	36.00
Sullivan	59	10,992	1.96	9.50	163.8	36.00
Interstate Power Co Dubuque	**131**	**10,994**	**2.86**	**8.91**	**191.5**	**42.12**
Illinois	131	10,994	2.86	8.91	191.5	42.12
Randolph	131	10,994	2.86	8.91	191.5	42.12
Interstate Power Co Lansing	**745**	**8,441**	**.44**	**4.90**	**224.5**	**37.90**
Illinois	41	10,841	2.46	8.57	195.9	42.47
Randolph	41	10,841	2.46	8.57	195.9	42.47
Wyoming	704	8,300	.32	4.68	226.7	37.63
Campbell	704	8,300	.32	4.68	226.7	37.63
Interstate Power Co Kapp	**490**	**11,169**	**2.01**	**9.06**	**132.4**	**29.57**
Illinois	238	11,286	2.02	9.38	133.5	30.13
Perry	238	11,286	2.02	9.38	133.5	30.13
Indiana	252	11,059	2.01	8.76	131.2	29.03
Pike	252	11,059	2.01	8.76	131.2	29.03
Iowa Electric Light & Power Prairie Creek 1-4	**376**	**10,557**	**2.04**	**8.62**	**151.2**	**31.92**
Illinois	28	11,481	1.58	9.45	153.2	35.17
Franklin	28	11,481	1.58	9.45	153.2	35.17
Indiana	233	11,090	2.27	8.85	158.0	35.04
Dubois	2	11,343	2.62	7.49	156.7	35.55
Gibson	164	10,953	2.31	9.09	160.8	35.23
Sullivan	61	11,432	2.14	8.14	153.3	35.04
Unknown	6	11,278	2.21	10.05	132.9	29.97
Iowa	52	10,141	3.33	11.65	166.1	33.69
Marion	52	10,141	3.33	11.65	166.1	33.69
Wyoming	63	8,517	.35	4.92	102.4	17.43
Campbell	63	8,517	.35	4.92	102.4	17.43
Iowa Electric Light & Power 6th St	**84**	**11,099**	**2.13**	**9.24**	**156.8**	**34.80**
Illinois	15	11,408	1.54	9.40	156.8	35.78
Franklin	15	11,408	1.54	9.40	156.8	35.78

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Iowa Electric Light & Power 6th St						
Indiana	69	11,032	2.26	9.20	156.7	34.58
Dubois	1	11,343	2.62	7.49	156.4	35.48
Gibson	55	10,959	2.29	9.13	158.7	34.78
Sullivan	10	11,329	2.05	9.51	153.4	34.75
Unknown	3	11,278	2.21	10.05	133.4	30.09
Iowa Electric Light & Power Sutherland	**231**	**10,014**	**.99**	**6.50**	**123.6**	**24.75**
Illinois	7	11,324	2.67	12.57	155.2	35.14
Saline	7	11,324	2.67	12.57	155.2	35.14
Iowa	14	10,077	3.34	12.14	154.8	31.21
Marion	14	10,077	3.34	12.14	154.8	31.21
Wyoming	210	9,966	.78	5.92	120.3	23.97
Campbell	65	8,476	.32	4.93	91.3	15.47
Carbon	145	10,634	.99	6.36	130.6	27.78
Iowa Power & Light Co Council Bluffs	**3,193**	**8,310**	**.33**	**4.65**	**97.5**	**16.20**
Wyoming	3,193	8,310	.33	4.65	97.5	16.20
Campbell	3,193	8,310	.33	4.65	97.5	16.20
Iowa Public Service Co George Neal 1/4	**4,923**	**8,690**	**.39**	**5.88**	**84.3**	**14.65**
Wyoming	4,923	8,690	.39	5.88	84.3	14.65
Campbell	4,276	8,430	.38	5.48	76.8	12.95
Carbon	647	10,409	.46	8.54	124.4	25.89
Iowa Southern Utilities Co Ottumwa	**2,222**	**8,391**	**.35**	**5.68**	**103.1**	**17.30**
Wyoming	2,222	8,391	.35	5.68	103.1	17.30
Campbell	2,222	8,391	.35	5.68	103.1	17.30
Iowa Southern Utilities Co Burlington	**347**	**10,882**	**2.80**	**9.44**	**118.6**	**25.81**
Illinois	48	10,858	2.93	10.01	114.2	24.79
St Clair	48	10,858	2.93	10.01	114.2	24.79
Indiana	277	11,077	2.91	9.55	120.6	26.73
Warrick	277	11,077	2.91	9.55	120.6	26.73
Wyoming	21	8,401	1.09	6.71	96.3	16.17
Campbell	21	8,401	1.09	6.71	96.3	16.17
Iowa-Illinois Gas&Electric Co Riverside	**233**	**10,796**	**2.69**	**12.66**	**127.5**	**27.54**
Indiana	233	10,796	2.69	12.66	127.5	27.54
Knox	233	10,796	2.69	12.66	127.5	27.54
Iowa-Illinois Gas&Electric Co Louisa	**1,777**	**8,414**	**.35**	**5.51**	**110.4**	**18.57**
Wyoming	1,777	8,414	.35	5.51	110.4	18.57
Campbell	1,777	8,414	.35	5.51	110.4	18.57
Jacksonville Electric Auth St. Johns River	**3,455**	**12,336**	**.94**	**9.09**	**176.4**	**43.52**
Kentucky	1,622	12,629	1.03	9.28	174.2	44.00
Floyd	214	12,006	.87	11.14	176.1	42.28
Harlan	1,006	12,884	1.10	8.54	177.3	45.68
Knott	46	12,413	.92	10.36	176.3	43.77
Perry	292	12,138	.93	11.03	158.9	38.58
Pike	65	13,087	1.14	5.84	183.7	48.09
West Virginia	785	12,246	1.03	11.80	187.4	45.91
Logan	711	12,126	.87	12.38	190.0	46.08
Monongalia	74	13,399	2.64	6.20	165.1	44.24
Imported	1,048	11,951	.74	6.77	171.5	41.00
Imported Coal	1,048	11,951	.74	6.77	171.5	41.00
Jamestown City of Samuel A Carlson	**122**	**12,624**	**1.85**	**10.40**	**144.7**	**36.53**
Pennsylvania	122	12,624	1.85	10.40	144.7	36.53
Butler	16	12,566	1.91	8.67	147.7	37.12
Clarion	45	12,601	1.98	10.72	144.0	36.30
Jefferson	62	12,656	1.73	10.59	144.4	36.55
Kansas City City of Quindaro	**400**	**10,914**	**1.34**	**9.71**	**167.3**	**36.51**
Colorado	10	11,612	.43	16.66	119.6	27.78
Las Animas	10	11,612	.43	16.66	119.6	27.78

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Kansas City City of — Quindaro						
Illinois	159	11,520	2.72	11.64	223.7	51.55
Williamson	159	11,520	2.72	11.64	223.7	51.55
Wyoming	230	10,465	.43	8.07	126.7	26.53
Carbon	230	10,465	.43	8.07	126.7	26.53
Kansas City City of — Kaw	**76**	**11,504**	**2.74**	**11.90**	**230.1**	**52.94**
Illinois	76	11,504	2.74	11.90	230.1	52.94
Williamson	76	11,504	2.74	11.90	230.1	52.94
Kansas City City of — Nearman	**799**	**8,276**	**.37**	**4.95**	**102.2**	**16.92**
Wyoming	799	8,276	.37	4.95	102.2	16.92
Campbell	799	8,276	.37	4.95	102.2	16.92
Kansas City Power & Light Co — Hawthorne	**1,300**	**8,779**	**.22**	**4.86**	**94.3**	**16.56**
Wyoming	1,300	8,779	.22	4.86	94.3	16.56
Campbell	1,300	8,779	.22	4.86	94.3	16.56
Kansas City Power & Light Co — Iatan	**2,352**	**8,781**	**.36**	**5.19**	**85.1**	**14.95**
Wyoming	2,352	8,781	.36	5.19	85.1	14.95
Campbell	2,352	8,781	.36	5.19	85.1	14.95
Kansas City Power & Light Co — La Cygne	**3,986**	**9,288**	**1.05**	**6.22**	**108.3**	**20.11**
Illinois	988	11,188	2.85	9.10	130.2	29.14
Franklin	208	11,738	2.43	8.18	130.9	30.73
Perry	779	11,041	2.96	9.34	130.1	28.72
Kansas	135	11,973	3.18	11.47	123.2	29.50
Crawford	135	11,973	3.18	11.47	123.2	29.50
Wyoming	2,863	8,506	.33	4.98	97.3	16.55
Campbell	2,863	8,506	.33	4.98	97.3	16.55
Kansas City Power & Light Co — Montrose	**1,340**	**8,431**	**.39**	**5.14**	**102.0**	**17.19**
Wyoming	1,340	8,431	.39	5.14	102.0	17.19
Campbell	1,340	8,431	.39	5.14	102.0	17.19
Kansas Power & Light Co — Lawrence	**1,338**	**10,582**	**.45**	**9.30**	**129.1**	**27.33**
Colorado	159	11,847	.39	16.52	118.2	28.02
Las Animas	159	11,847	.39	16.52	118.2	28.02
Wyoming	1,179	10,411	.45	8.32	130.8	27.24
Carbon	1,179	10,411	.45	8.32	130.8	27.24
Kansas Power & Light Co — Jeffrey Energy	**7,491**	**8,358**	**.34**	**4.69**	**134.1**	**22.41**
Wyoming	7,491	8,358	.34	4.69	134.1	22.41
Campbell	7,491	8,358	.34	4.69	134.1	22.41
Kansas Power & Light Co — Tecumseh	**400**	**10,445**	**.46**	**8.53**	**130.9**	**27.35**
Colorado	9	11,506	.44	17.10	121.7	28.00
Las Animas	9	11,506	.44	17.10	121.7	28.00
Wyoming	391	10,421	.46	8.33	131.1	27.33
Carbon	391	10,421	.46	8.33	131.1	27.33
Kentucky Power Co — Big Sandy	**2,735**	**11,983**	**1.08**	**11.72**	**122.6**	**29.38**
Kentucky	2,652	11,977	1.09	11.77	123.0	29.45
Breathitt	236	12,130	1.10	8.88	117.5	28.50
Floyd	908	11,912	1.06	12.10	124.8	29.72
Johnson	490	11,817	1.21	12.23	134.8	31.85
Letcher	335	12,247	1.23	11.13	104.2	25.52
Magoffin	30	11,935	.98	12.15	107.4	25.64
Martin	577	11,999	.95	12.35	126.4	30.33
Pike	75	11,981	1.15	11.98	107.9	25.86
West Virginia	84	12,172	.76	10.42	110.6	26.91
Mingo	42	12,172	.76	10.42	110.6	26.91
Wayne	42	12,172	.76	10.42	110.6	26.91
Kentucky Utilities Co — Green River	**456**	**11,696**	**2.13**	**8.41**	**107.2**	**25.07**
Kentucky	456	11,696	2.13	8.41	107.2	25.07
Butler	28	11,507	2.03	9.41	107.4	24.72
Hopkins	249	11,677	2.13	8.51	109.8	25.64
Muhlenberg	36	12,466	1.81	4.77	106.1	26.45
Ohio	142	11,573	2.23	8.97	102.9	23.81

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Kentucky Utilities Co Brown	**1,699**	**12,115**	**2.01**	**11.15**	**117.8**	**28.54**
Indiana	288	11,244	2.08	8.33	119.3	26.83
Pike	288	11,244	2.08	8.33	119.3	26.83
Kentucky	806	12,064	1.49	11.99	115.7	27.91
Breathitt	30	11,683	2.43	11.45	116.4	27.19
Clay	50	12,398	1.03	9.96	140.8	34.91
Harlan	7	12,551	1.46	10.30	145.3	36.47
Lee	28	11,419	2.20	12.15	101.6	23.19
Perry	560	12,046	1.12	12.30	112.7	27.16
Whitley	131	12,217	2.89	11.65	119.5	29.21
Tennessee	604	12,597	2.66	11.36	119.8	30.19
Anderson	543	12,482	2.70	11.74	117.7	29.39
Morgan	61	13,628	2.37	8.01	136.9	37.32
Kentucky Utilities Co Ghent	**4,324**	**12,236**	**1.28**	**9.43**	**131.3**	**32.13**
Indiana	259	11,166	2.77	9.28	99.9	22.30
Dubois	45	10,955	2.89	9.76	93.8	20.55
Warrick	214	11,210	2.75	9.18	101.1	22.67
Kentucky	3,193	12,304	1.34	8.86	133.9	32.94
Breathitt	81	11,968	.63	11.36	112.0	26.81
Floyd	357	12,246	.61	10.07	126.1	30.88
Harlan	411	12,439	.50	9.60	124.2	30.91
Henderson	708	11,207	2.69	9.22	91.6	20.54
Lawrence	1	11,894	.67	11.80	115.9	27.57
Letcher	846	13,399	.76	6.86	182.4	48.87
Muhlenberg	234	11,625	2.48	9.20	117.0	27.19
Ohio	131	11,269	2.83	9.74	95.8	21.59
Perry	424	12,627	.70	9.57	132.3	33.41
West Virginia	871	12,307	.62	11.54	130.4	32.09
Boone	162	12,250	.64	12.24	126.2	30.93
Kanawha	330	12,591	.59	11.06	134.5	33.87
Logan	56	12,514	.54	10.15	111.9	28.02
Mingo	324	12,010	.64	11.92	131.4	31.56
Kentucky Utilities Co Tyrone	**56**	**12,109**	**.85**	**10.80**	**131.6**	**31.87**
Kentucky	56	12,109	.85	10.80	131.6	31.87
Knott	2	12,047	.68	8.00	124.4	29.98
Perry	54	12,112	.85	10.91	131.9	31.94
Lakeland City of Plant 3-McIntosh	**902**	**12,242**	**1.09**	**10.48**	**208.4**	**51.02**
Kentucky	902	12,242	1.09	10.48	208.4	51.02
Leslie	902	12,242	1.09	10.48	208.4	51.02
Lansing City of Eckert	**581**	**13,031**	**.85**	**7.22**	**184.8**	**48.17**
Kentucky	520	13,040	.86	7.13	186.3	48.58
Floyd	79	13,211	.89	5.53	176.8	46.73
Harlan	35	12,899	.90	7.71	185.4	47.82
Pike	406	13,018	.85	7.39	188.2	49.00
West Virginia	61	12,961	.78	8.01	172.6	44.73
Boone	14	12,928	.87	7.79	177.0	45.76
Logan	47	12,971	.75	8.08	171.2	44.42
Lansing City of Erickson	**562**	**13,027**	**.85**	**6.83**	**178.1**	**46.40**
Kentucky	517	13,047	.86	6.65	178.3	46.52
Floyd	114	13,180	.88	5.61	179.0	47.19
Harlan	35	13,144	.92	7.06	182.9	48.07
Pike	369	12,997	.85	6.93	177.6	46.17
West Virginia	44	12,788	.78	8.95	175.7	44.94
Boone	18	12,559	.80	9.84	182.5	45.83
Logan	26	12,953	.76	8.32	171.1	44.31
Los Angeles City of Intermountain	**4,822**	**11,702**	**.51**	**8.28**	**143.8**	**33.65**
Utah	4,822	11,702	.51	8.28	143.8	33.65
Carbon	4,383	11,660	.50	8.11	146.7	34.22
Emery	438	12,114	.60	9.93	115.1	27.88
Louisville Gas & Electric Co Cane Run	**1,223**	**11,417**	**2.92**	**9.86**	**118.7**	**27.11**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Louisville Gas & Electric Co Cane Run						
Indiana	271	11,250	2.72	8.46	108.0	24.29
Daviess	15	11,172	2.59	8.32	105.5	23.57
Gibson	53	10,967	2.72	9.45	100.5	22.04
Pike	203	11,330	2.73	8.20	110.0	24.93
Kentucky	952	11,465	2.97	10.26	121.8	27.92
Daviess	29	11,172	2.59	8.33	105.5	23.57
Henderson	61	11,295	2.96	10.65	112.6	25.43
Hopkins	365	11,635	3.06	9.77	117.5	27.33
Muhlenberg	496	11,377	2.93	10.69	127.0	28.91
Louisville Gas & Electric Co Mill Creek	**3,858**	**11,516**	**3.08**	**10.01**	**111.1**	**25.60**
Indiana	237	11,076	2.75	9.12	94.0	20.81
Daviess	65	11,167	2.64	8.35	96.9	21.64
Gibson	172	11,042	2.79	9.41	92.8	20.50
Kentucky	3,620	11,545	3.10	10.07	112.2	25.91
Daviess	131	11,167	2.64	8.35	96.9	21.64
Henderson	133	11,291	2.85	10.06	105.9	23.91
Hopkins	1,865	11,718	3.28	9.85	107.4	25.18
Mclean	14	11,418	3.33	11.92	96.0	21.91
Muhlenberg	1,478	11,384	2.94	10.48	120.5	27.43
Louisville Gas & Electric Co Trimble County	**324**	**11,482**	**2.82**	**9.41**	**97.1**	**22.31**
Indiana	18	11,219	2.74	8.94	95.1	21.33
Daviess	5	11,237	2.67	8.19	97.4	21.90
Gibson	14	11,213	2.77	9.19	94.3	21.14
Kentucky	305	11,498	2.83	9.44	97.3	22.36
Daviess	9	11,237	2.67	8.19	97.4	21.90
Henderson	20	11,306	3.10	11.21	105.0	23.75
Mclean	28	11,433	3.44	12.30	99.3	22.71
Muhlenberg	248	11,531	2.74	9.02	96.4	22.23
Lower Colorado River Authority S Seymour-Fayette	**5,677**	**8,610**	**.40**	**5.51**	**127.8**	**22.00**
Texas	208	6,689	1.37	11.14	155.5	20.80
Bastrop	208	6,689	1.37	11.14	155.5	20.80
Wyoming	5,469	8,683	.36	5.30	126.9	22.04
Campbell	5,469	8,683	.36	5.30	126.9	22.04
Madison Gas & Electric Co Blount	**100**	**12,138**	**2.07**	**8.04**	**166.3**	**40.38**
Illinois	91	12,076	2.19	8.02	164.1	39.63
Saline	91	12,076	2.19	8.02	164.1	39.63
Kentucky	3	12,465	.97	9.40	190.3	47.45
Pike	3	12,465	.97	9.40	190.3	47.45
West Virginia	6	12,912	.74	7.60	186.4	48.14
Boone	3	12,508	.69	8.40	184.1	46.05
Kanawha	3	13,316	.79	6.80	188.6	50.23
Manitowoc City of Manitowoc	**130**	**13,163**	**.85**	**7.39**	**185.6**	**48.86**
Kentucky	130	13,163	.85	7.39	185.6	48.86
Floyd	10	13,323	.83	6.11	184.4	49.13
Knott	18	13,000	.74	8.10	180.0	46.80
Leslie	11	13,125	.86	8.10	177.9	46.70
Letcher	7	13,316	.90	8.50	184.0	49.00
Perry	27	13,196	.81	7.04	187.5	49.48
Pike	56	13,158	.91	7.27	188.4	49.59
Marquette City of Shiras	**141**	**9,396**	**.60**	**6.89**	**180.2**	**33.87**
Kentucky	19	12,460	1.21	9.19	192.6	48.00
Letcher	9	12,460	1.21	9.19	192.6	48.00
Perry	10	12,460	1.21	9.19	192.6	48.00
Montana	122	8,921	.50	6.53	177.5	31.67
Big Horn	91	8,921	.50	6.53	177.5	31.67
Rosebud	30	8,921	.50	6.53	177.5	31.67
Metropolitan Edison Co Portland	**857**	**13,235**	**1.93**	**7.39**	**163.5**	**43.27**
Pennsylvania	677	13,277	2.05	7.38	164.2	43.61
Clearfield	26	12,821	1.75	10.00	191.9	49.20
Greene	513	13,392	2.22	6.65	162.9	43.63
Jefferson	138	12,936	1.48	9.59	164.0	42.44

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Metropolitan Edison Co Portland						
West Virginia	180	13,077	1.47	7.44	160.6	42.00
Barbour	156	13,059	1.44	7.48	158.0	41.26
Marion	7	13,404	2.37	5.69	171.7	46.03
Nicholas	*	12,863	1.22	9.41	175.1	45.05
Randolph	3	12,861	1.11	10.36	171.9	44.22
Upshur	14	13,167	1.44	7.33	180.9	47.65
Metropolitan Edison Co Titus	**538**	**13,250**	**1.51**	**6.90**	**171.5**	**45.44**
Pennsylvania	489	13,282	1.53	6.71	171.1	45.44
Clarion	15	13,123	1.39	7.69	180.9	47.49
Greene	459	13,295	1.53	6.59	171.1	45.50
Jefferson	14	13,044	1.54	9.35	158.3	41.30
West Virginia	49	12,931	1.41	8.86	175.6	45.43
Lewis	42	12,942	1.44	8.77	175.5	45.44
Nicholas	7	12,863	1.22	9.41	176.3	45.35
Michigan South Central Pwr Agy Endicott	**143**	**11,733**	**3.39**	**10.04**	**204.0**	**47.87**
Ohio	143	11,734	3.39	10.05	204.0	47.88
Coshocton	63	11,669	3.59	10.44	182.4	42.58
Holmes	80	11,784	3.24	9.74	220.8	52.03
West Virginia	*	11,534	3.38	9.20	175.8	40.55
Upshur	*	11,534	3.38	9.20	175.8	40.55
Minnesota Power & Light Co Aurora-Syl Laskin	**44**	**9,429**	**.64**	**8.94**	**176.1**	**33.20**
Kentucky	4	11,540	.76	10.68	207.9	47.99
Harlan	4	11,540	.76	10.68	207.9	47.99
Montana	30	8,728	.70	9.49	179.6	31.36
Musselshell	2	8,763	.54	7.90	206.6	36.21
Rosebud	29	8,726	.71	9.58	178.0	31.07
Wyoming	10	10,820	.42	6.60	154.9	33.52
Carbon	10	10,820	.42	6.60	154.9	33.52
Minnesota Power & Light Co Boswell	**3,993**	**8,713**	**.71**	**9.72**	**135.1**	**23.55**
Montana	3,993	8,713	.71	9.72	135.1	23.55
Big Horn	128	8,791	.69	9.61	96.9	17.04
Rosebud	3,865	8,710	.71	9.73	136.4	23.76
Minnkota Power Coop Inc Young	**4,100**	**6,850**	**1.01**	**7.95**	**47.0**	**6.44**
North Dakota	4,100	6,850	1.01	7.95	47.0	6.44
Oliver	4,100	6,850	1.01	7.95	47.0	6.44
Mississippi Power Co Daniel	**1,222**	**12,996**	**.72**	**6.95**	**166.1**	**43.17**
Kentucky	1,222	12,996	.72	6.95	166.1	43.17
Letcher	1,222	12,996	.72	6.95	166.1	43.17
Mississippi Power Co Watson	**1,924**	**12,302**	**2.49**	**7.93**	**149.4**	**36.77**
Illinois	1,131	12,506	2.55	8.38	151.1	37.79
Gallatin	673	12,657	2.63	8.48	132.6	33.57
Saline	458	12,285	2.42	8.24	179.0	43.97
Indiana	23	11,616	4.84	8.26	126.0	29.27
Spencer	23	11,616	4.84	8.26	126.0	29.27
Kentucky	769	12,023	2.34	7.26	147.7	35.51
Hopkins	44	12,022	2.56	9.66	140.2	33.72
Letcher	140	12,622	1.14	8.76	161.2	40.70
Union	579	11,880	2.61	6.69	144.8	34.41
Webster	6	11,885	2.16	8.68	139.7	33.20
Missouri Public Service Comm Sibley	**857**	**11,064**	**3.02**	**9.79**	**162.3**	**35.91**
Illinois	822	11,019	3.13	9.88	163.3	35.99
Perry	678	10,999	3.18	10.09	168.5	37.06
Randolph	144	11,115	2.86	8.89	139.0	30.91
New Mexico	18	13,026	.44	9.24	134.7	35.10
Colfax	18	13,026	.44	9.24	134.7	35.10
Wyoming	17	11,091	.56	6.17	148.8	33.00
Carbon	17	11,091	.56	6.17	148.8	33.00
Monongahela Power Co Albright	**617**	**12,433**	**1.63**	**12.56**	**111.0**	**27.60**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Monongahela Power Co Albright						
Maryland	95	12,846	1.55	12.02	122.3	31.41
Garrett	95	12,846	1.55	12.02	122.3	31.41
West Virginia	522	12,358	1.64	12.66	108.9	26.91
Grant	27	13,080	1.47	11.20	119.6	31.29
Preston	495	12,318	1.65	12.74	108.3	26.67
Monongahela Power Co Ft Martin	**2,413**	**12,591**	**1.83**	**10.93**	**149.8**	**37.72**
Kentucky	474	12,436	.88	8.51	202.9	50.46
Martin	474	12,436	.88	8.51	202.9	50.46
Maryland	388	12,772	1.56	12.23	137.5	35.12
Garrett	388	12,772	1.56	12.23	137.5	35.12
West Virginia	1,551	12,593	2.19	11.34	136.9	34.48
Barbour	16	12,486	1.60	12.15	120.5	30.10
Clay	27	12,213	.87	12.48	129.3	31.58
Fayette	6	11,868	.80	15.42	108.3	25.71
Kanawha	23	12,457	.84	10.57	126.4	31.50
Monongalia	1,447	12,619	2.26	11.25	137.8	34.77
Nicholas	7	11,812	.93	14.00	162.1	38.29
Preston	24	12,058	1.67	13.80	111.5	26.90
Monongahela Power Co Harrison	**4,961**	**13,105**	**3.10**	**7.84**	**138.5**	**36.30**
Pennsylvania	4	13,336	2.52	6.90	110.5	29.47
Greene	4	13,336	2.52	6.90	110.5	29.47
West Virginia	4,956	13,105	3.10	7.84	138.5	36.31
Harrison	4,069	13,078	3.18	8.01	141.1	36.90
Lewis	6	13,147	2.86	7.40	105.8	27.81
Monongalia	873	13,232	2.71	7.02	127.3	33.68
Upshur	8	13,100	3.05	8.57	103.0	26.99
Monongahela Power Co Pleasants	**3,553**	**12,412**	**3.23**	**11.03**	**113.1**	**28.07**
Kentucky	25	11,935	3.47	12.70	129.9	31.01
Webster	25	11,935	3.47	12.70	129.9	31.01
Ohio	1,365	12,363	4.12	10.32	98.2	24.29
Belmont	1,229	12,382	4.12	10.27	97.3	24.09
Harrison	136	12,192	4.09	10.75	106.8	26.04
Pennsylvania	430	13,286	2.38	7.26	104.6	27.79
Greene	430	13,286	2.38	7.26	104.6	27.79
West Virginia	1,733	12,241	2.74	12.49	126.9	31.07
Barbour	200	12,168	3.33	13.15	114.5	27.86
Boone	20	11,699	3.21	10.90	116.0	27.13
Harrison	273	12,508	3.06	10.88	129.9	32.51
Marion	29	11,994	3.25	13.56	106.0	25.43
Monongalia	985	12,248	2.76	12.76	125.7	30.79
Nicholas	210	12,017	1.42	12.85	145.9	35.06
Upshur	15	12,156	3.76	10.38	109.3	26.57
Monongahela Power Co Rivesville	**220**	**12,318**	**.97**	**12.09**	**134.2**	**33.07**
Kentucky	3	12,225	.95	9.30	204.4	49.98
Martin	3	12,225	.95	9.30	204.4	49.98
West Virginia	217	12,320	.97	12.13	133.2	32.82
Barbour	39	12,759	.97	9.12	128.3	32.75
Fayette	10	12,419	.85	12.23	109.6	27.22
Kanawha	3	12,306	.78	11.70	139.0	34.21
Monongalia	46	12,165	1.04	12.75	139.5	33.95
Nicholas	16	12,138	.88	12.56	122.3	29.70
Preston	95	12,252	.99	12.86	135.8	33.28
Randolph	9	12,138	.86	13.68	138.7	33.67
Monongahela Power Co Willow Island	**410**	**12,429**	**1.39**	**10.17**	**129.8**	**32.26**
Kentucky	48	12,096	1.38	10.67	128.2	31.01
Floyd	48	12,096	1.38	10.67	128.2	31.01
Pennsylvania	142	12,690	1.47	8.34	141.3	35.85
Fayette	60	12,292	1.46	10.92	144.4	35.51
Greene	30	13,148	1.65	6.81	153.9	40.47
Washington	52	12,887	1.39	6.25	130.4	33.61
West Virginia	220	12,333	1.34	11.24	122.5	30.21
Barbour	212	12,346	1.33	11.19	122.3	30.20
Taylor	8	11,970	1.66	12.77	127.3	30.47

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Montana Power Co — Colstrip	**8,798**	**8,595**	**0.64**	**8.93**	**66.1**	**11.36**
Montana	8,798	8,595	.64	8.93	66.1	11.36
Rosebud	8,798	8,595	.64	8.93	66.1	11.36
Montana Power Co — Corette	**545**	**8,727**	**.60**	**7.62**	**70.8**	**12.37**
Montana	545	8,727	.60	7.62	70.8	12.37
Rosebud	545	8,727	.60	7.62	70.8	12.37
Montana-Dakota Utilities Co — Coyote	**1,740**	**6,908**	**1.08**	**8.26**	**73.1**	**10.11**
North Dakota	1,740	6,908	1.08	8.26	73.1	10.11
Mercer	747	6,915	1.04	8.20	73.1	10.11
Oliver	993	6,904	1.10	8.31	73.2	10.10
Montana-Dakota Utilities Co — Heskett	**416**	**7,084**	**.88**	**8.65**	**103.4**	**14.65**
North Dakota	416	7,084	.88	8.65	103.4	14.65
Mercer	202	7,083	.90	8.94	103.4	14.65
Oliver	214	7,085	.86	8.38	103.4	14.66
Montana-Dakota Utilities Co — Lewis and Clark	**176**	**6,557**	**.52**	**8.28**	**109.9**	**14.42**
Montana	176	6,557	.52	8.28	109.9	14.42
Richland	176	6,557	.52	8.28	109.9	14.42
Montaup Electric Co — Somerset	**411**	**13,096**	**1.15**	**7.16**	**181.5**	**47.53**
Virginia	411	13,096	1.15	7.16	181.5	47.53
Buchanan	411	13,096	1.15	7.16	181.5	47.53
Muscatine City of — Muscatine	**530**	**11,208**	**3.13**	**7.10**	**192.0**	**43.03**
Illinois	530	11,208	3.13	7.10	192.0	43.03
Jefferson	16	11,531	1.63	7.17	178.5	41.17
Perry	164	10,925	2.92	9.66	197.9	43.25
Schuyler	350	11,326	3.30	5.89	189.9	43.02
Nebraska Public Power District — Gerald Gentleman	**3,238**	**8,797**	**.37**	**5.18**	**82.6**	**14.53**
Wyoming	3,238	8,797	.37	5.18	82.6	14.53
Campbell	3,238	8,797	.37	5.18	82.6	14.53
Nebraska Public Power District — Sheldon	**593**	**8,844**	**.39**	**5.15**	**79.5**	**14.05**
Wyoming	593	8,844	.39	5.15	79.5	14.05
Campbell	584	8,805	.39	5.15	78.8	13.88
Carbon	9	11,484	.48	4.91	112.2	25.77
Nevada Power Co — Gardner	**1,886**	**11,896**	**.63**	**9.89**	**177.6**	**42.26**
Utah	1,886	11,896	.63	9.89	177.6	42.26
Carbon	1,886	11,896	.63	9.89	177.6	42.26
New England Power Co — Brayton	**2,420**	**13,032**	**1.24**	**8.44**	**170.0**	**44.30**
Kentucky	12	12,600	.94	7.07	172.9	43.57
Pike	12	12,600	.94	7.07	172.9	43.57
Maryland	40	13,684	1.02	6.61	185.2	50.69
Garrett	40	13,684	1.02	6.61	185.2	50.69
Pennsylvania	248	12,996	1.43	9.46	166.1	43.18
Armstrong	84	13,019	1.40	9.51	164.5	42.84
Somerset	141	12,965	1.44	9.55	165.9	43.02
Washington	22	13,105	1.50	8.75	173.7	45.54
Virginia	899	13,018	1.26	8.37	173.9	45.28
Buchanan	601	12,963	1.28	8.46	173.2	44.90
Wise	298	13,129	1.20	8.19	175.3	46.03
West Virginia	1,121	13,053	1.25	8.41	166.2	43.39
Barbour	589	13,021	1.19	7.99	166.3	43.30
Grant	352	13,039	1.42	9.20	163.3	42.57
Mingo	3	13,447	1.27	6.58	183.1	49.24
Nicholas	7	12,777	.99	7.79	158.0	40.38
Preston	103	13,041	1.29	9.05	166.4	43.40
Raleigh	46	13,581	.68	6.25	182.9	49.68
Randolph	7	13,132	.72	9.24	181.5	47.65
Webster	14	13,116	1.13	8.85	171.3	44.93
Imported	100	12,792	.65	7.78	179.9	46.02
Imported Coal	100	12,792	.65	7.78	179.9	46.02
New England Power Co — Salem Harbor	**883**	**13,135**	**1.18**	**7.33**	**177.2**	**46.56**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
New England Power Co Salem Harbor						
Kentucky	37	12,598	0.94	9.29	182.3	45.93
Unknown	37	12,598	.94	9.29	182.3	45.93
Pennsylvania	224	13,137	1.40	8.30	177.1	46.53
Armstrong	8	13,097	1.34	9.02	165.9	43.45
Somerset	53	13,130	1.42	8.69	174.3	45.76
Washington	163	13,141	1.40	8.14	178.6	46.94
Virginia	201	13,588	.97	6.17	172.6	46.92
Buchanan	201	13,588	.97	6.17	172.6	46.92
West Virginia	347	13,133	1.30	7.65	175.9	46.20
Barbour	103	13,008	1.27	7.65	168.3	43.78
Grant	74	13,167	1.42	9.33	170.0	44.76
Mingo	120	13,264	1.28	6.39	186.3	49.43
Nicholas	7	13,102	1.34	8.35	177.9	46.63
Preston	35	13,034	1.24	8.30	172.9	45.07
Randolph	7	12,911	1.15	7.23	181.6	46.89
Imported	75	12,176	.66	5.07	195.7	47.65
Imported Coal	75	12,176	.66	5.07	195.7	47.65
New York State Elec & Gas Corp Goudey	**387**	**12,705**	**1.83**	**9.66**	**159.1**	**40.42**
Ohio	4	12,704	1.96	9.40	161.9	41.14
Columbiana	4	12,704	1.96	9.40	161.9	41.14
Pennsylvania	338	12,680	1.78	9.67	159.5	40.44
Cambria	*	12,061	1.93	14.80	154.1	37.17
Centre	6	12,234	1.82	13.89	159.1	38.92
Clarion	47	12,749	2.01	9.81	157.0	40.02
Clearfield	86	12,255	1.87	12.17	155.7	38.17
Fayette	8	11,777	2.24	17.02	156.5	36.87
Greene	81	13,116	1.55	6.47	165.1	43.31
Indiana	7	12,317	1.94	12.00	157.0	38.68
Jefferson	18	12,577	1.80	10.81	160.2	40.31
Lawrence	17	11,946	2.05	12.84	156.2	37.32
Washington	57	13,168	1.64	6.99	160.1	42.16
Westmoreland	9	12,295	1.76	11.55	159.4	39.19
West Virginia	44	12,894	2.13	9.61	155.8	40.18
Marion	20	13,416	2.24	7.58	156.2	41.91
Monongalia	24	12,465	2.04	11.28	155.5	38.76
New York State Elec & Gas Corp Greenidge	**481**	**12,348**	**1.99**	**11.93**	**158.7**	**39.19**
Ohio	4	12,562	2.21	9.80	161.9	40.68
Columbiana	4	12,562	2.21	9.80	161.9	40.68
Pennsylvania	422	12,283	1.95	12.19	159.0	39.07
Armstrong	2	12,000	1.50	16.00	154.2	37.01
Centre	11	12,285	1.98	13.60	160.4	39.42
Clarion	70	12,232	1.83	12.08	158.3	38.72
Clearfield	195	12,114	2.00	13.69	158.8	38.48
Fayette	7	11,601	2.34	17.67	156.7	36.35
Greene	50	13,060	1.96	7.21	162.6	42.46
Jefferson	19	12,107	1.90	12.86	159.5	38.63
Lawrence	24	11,906	2.13	12.44	156.3	37.21
Washington	24	12,952	1.70	7.78	159.1	41.21
Westmoreland	20	12,194	1.85	11.94	157.8	38.47
West Virginia	55	12,832	2.26	10.09	155.7	39.96
Marion	31	13,307	2.38	7.73	156.5	41.66
Monongalia	25	12,239	2.11	13.03	154.6	37.83
New York State Elec & Gas Corp Hickling	**381**	**10,748**	**1.22**	**20.31**	**153.4**	**32.98**
Pennsylvania	381	10,748	1.22	20.31	153.4	32.98
Armstrong	36	10,669	1.78	25.07	156.0	33.29
Cambria	28	10,000	1.54	26.87	145.4	29.09
Centre	5	10,700	1.22	17.40	146.6	31.38
Clearfield	63	11,045	1.59	15.92	157.0	34.67
Clinton	86	10,986	.97	18.77	156.5	34.39
Jefferson	46	10,413	1.31	14.68	161.3	33.60
Lycoming	118	10,752	.93	23.09	147.4	31.69
New York State Elec & Gas Corp Jennison	**267**	**10,772**	**1.05**	**21.70**	**178.7**	**38.50**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
New York State Elec & Gas Corp Jennison						
Maryland	26	10,641	1.46	22.59	169.1	36.00
Allegany	26	10,641	1.46	22.59	169.1	36.00
Pennsylvania	241	10,787	1.00	21.61	179.7	38.77
Armstrong	3	10,636	1.77	23.41	164.2	34.93
Cambria	4	9,791	1.39	26.80	185.0	36.23
Centre	5	10,780	1.52	17.82	166.7	35.94
Clearfield	2	11,456	.99	15.20	167.4	38.35
Clinton	89	10,962	.95	19.17	189.5	41.55
Luzerne	1	8,331	.46	31.00	140.0	23.33
Lycoming	131	10,806	1.00	22.73	176.0	38.04
Tioga	6	8,781	.83	32.06	129.4	22.72
New York State Elec & Gas Corp Milliken	**982**	**12,291**	**1.94**	**12.06**	**163.5**	**40.20**
Pennsylvania	981	12,292	1.94	12.06	163.6	40.21
Cambria	8	12,061	1.93	14.80	161.5	38.96
Clearfield	620	12,158	1.98	12.95	163.1	39.65
Fayette	67	11,874	2.24	14.65	162.1	38.50
Greene	117	13,103	1.74	6.69	164.3	43.05
Indiana	59	12,218	1.68	11.66	165.2	40.37
Jefferson	54	12,386	1.82	11.68	167.3	41.45
Somerset	8	12,337	1.55	12.05	160.0	39.47
Washington	9	12,997	2.45	8.00	165.3	42.97
Westmoreland	39	12,595	1.85	11.06	164.4	41.42
West Virginia	1	11,429	2.37	16.30	150.0	34.29
Monongalia	1	11,429	2.37	16.30	150.0	34.29
New York State Elec & Gas Corp Somerset	**2,019**	**13,142**	**2.62**	**8.22**	**143.1**	**37.60**
West Virginia	2,019	13,142	2.62	8.22	143.1	37.60
Marion	323	13,286	2.53	7.57	143.4	38.12
Monongalia	1,697	13,115	2.64	8.34	143.0	37.51
Niagara-Mohawk Power Corp Dunkirk	**1,542**	**13,103**	**2.23**	**7.37**	**143.3**	**37.54**
Pennsylvania	984	12,950	2.16	7.79	141.9	36.76
Armstrong	177	13,069	2.25	7.51	140.6	36.76
Butler	192	12,949	2.08	7.59	143.5	37.16
Clarion	425	12,739	2.10	8.41	141.2	35.97
Greene	168	13,341	2.32	6.85	141.9	37.87
Mercer	7	13,026	2.15	7.46	144.7	37.70
Washington	15	13,115	1.98	6.60	157.3	41.26
West Virginia	558	13,373	2.35	6.63	145.5	38.92
Marion	166	13,426	2.12	7.13	148.8	39.96
Monongalia	392	13,350	2.45	6.42	144.1	38.49
Niagara-Mohawk Power Corp Huntley	**1,952**	**13,134**	**1.79**	**7.22**	**155.2**	**40.77**
Ohio	21	12,486	1.57	9.67	160.5	40.08
Columbiana	21	12,486	1.57	9.67	160.5	40.08
Pennsylvania	1,579	13,085	1.79	7.28	156.2	40.87
Armstrong	102	12,951	2.05	7.86	148.6	38.50
Butler	611	12,962	1.76	7.20	156.8	40.66
Greene	715	13,218	1.79	7.17	156.3	41.32
Indiana	92	13,123	1.80	7.72	159.1	41.77
Mercer	59	12,911	1.70	7.69	155.9	40.26
West Virginia	352	13,393	1.81	6.79	150.7	40.37
Monongalia	352	13,393	1.81	6.79	150.7	40.37
Northern Indiana Pub Serv Co Bailly	**1,140**	**11,188**	**2.96**	**10.82**	**134.5**	**30.09**
Illinois	1,095	11,198	2.99	10.85	133.9	29.98
Franklin	45	11,530	1.90	8.16	140.2	32.34
Perry	640	11,061	3.17	10.18	140.7	31.12
Saline	258	11,325	2.79	12.63	123.2	27.90
Williamson	152	11,462	2.90	11.46	122.1	28.00
Indiana	35	10,895	2.73	11.05	139.8	30.47
Greene	35	10,895	2.73	11.05	139.8	30.47
Wyoming	10	11,145	.58	6.00	182.4	40.66
Carbon	10	11,145	.58	6.00	182.4	40.66
Northern Indiana Pub Serv Co Michigan City	**1,126**	**11,307**	**2.17**	**8.63**	**148.2**	**33.52**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Northern Indiana Pub Serv Co Michigan City						
Illinois	597	11,240	2.86	10.12	136.7	30.74
Franklin	38	11,532	1.49	7.38	144.3	33.27
Perry	334	11,037	3.06	9.62	145.3	32.07
Saline	111	11,400	2.67	11.56	123.5	28.15
Williamson	114	11,582	2.92	11.07	123.2	28.53
Indiana	169	10,987	3.05	9.45	125.7	27.61
Clay	169	10,987	3.05	9.45	125.7	27.61
Virginia	56	14,075	.81	4.92	164.4	46.27
Buchanan	56	14,075	.81	4.92	164.4	46.27
Wyoming	304	11,107	.58	5.91	179.8	39.93
Carbon	304	11,107	.58	5.91	179.8	39.93
Northern Indiana Pub Serv Co Mitchell	**965**	**10,162**	**.50**	**6.40**	**148.8**	**30.25**
Kentucky	116	12,756	.71	8.82	174.0	44.40
Letcher	57	12,654	.72	8.68	166.3	42.08
Perry	59	12,854	.70	8.96	181.5	46.66
West Virginia	210	12,757	.71	9.25	167.0	42.61
Boone	104	12,638	.73	10.14	162.6	41.10
Kanawha	11	12,716	.61	9.84	168.5	42.85
Logan	95	12,893	.70	8.19	171.6	44.24
Wyoming	639	8,840	.39	5.03	133.7	23.63
Campbell	547	8,452	.36	4.96	121.9	20.61
Carbon	92	11,142	.57	5.40	186.7	41.60
Northern Indiana Pub Serv Co Rollin Schahfer	**3,204**	**10,904**	**1.79**	**8.07**	**182.3**	**39.76**
Colorado	600	11,174	.42	9.50	284.7	63.62
Delta	172	11,462	.39	6.47	247.0	56.63
Routt	427	11,058	.43	10.72	300.4	66.44
Illinois	1,505	11,050	3.27	9.65	153.9	34.01
Perry	1,505	11,050	3.27	9.65	153.9	34.01
Indiana	24	11,650	2.91	7.59	150.2	35.00
Daviess	24	11,650	2.91	7.59	150.2	35.00
Kentucky	30	13,078	.62	6.90	178.7	46.75
Martin	30	13,078	.62	6.90	178.7	46.75
Montana	237	9,336	.33	4.21	137.3	25.64
Big Horn	237	9,336	.33	4.21	137.3	25.64
Wyoming	808	10,789	.51	5.27	170.4	36.77
Campbell	162	8,814	.19	4.34	127.5	22.47
Carbon	646	11,284	.59	5.51	178.9	40.37
Northern States Power Co Black Dog	**534**	**8,820**	**.31**	**5.46**	**133.4**	**23.53**
Indiana	6	11,000	1.70	8.00	100.0	22.00
Daviess	6	11,000	1.70	8.00	100.0	22.00
Wyoming	528	8,797	.30	5.43	133.8	23.54
Campbell	125	8,827	.23	4.86	138.7	24.49
Converse	403	8,788	.31	5.61	132.3	23.25
Northern States Power Co High Bridge	**563**	**8,824**	**.27**	**4.86**	**108.4**	**19.14**
Wyoming	563	8,824	.27	4.86	108.4	19.14
Campbell	455	8,823	.25	4.73	111.1	19.61
Converse	107	8,828	.32	5.42	96.9	17.11
Northern States Power Co King	**1,605**	**8,820**	**.41**	**6.27**	**127.6**	**22.51**
Montana	384	8,701	.67	9.65	122.9	21.38
Big Horn	283	8,707	.66	9.95	118.3	20.61
Rosebud	101	8,685	.72	8.78	135.6	23.56
Wyoming	1,221	8,857	.33	5.21	129.0	22.86
Campbell	1,024	8,869	.33	5.13	128.0	22.70
Converse	196	8,794	.31	5.62	134.5	23.66
Northern States Power Co Riverside	**1,032**	**8,823**	**.26**	**4.79**	**103.1**	**18.19**
Wyoming	1,032	8,823	.26	4.79	103.1	18.19
Campbell	892	8,822	.25	4.67	104.3	18.41
Converse	140	8,828	.33	5.51	95.2	16.81
Northern States Power Co Sherburne County	**8,488**	**8,756**	**.48**	**7.51**	**122.2**	**21.40**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Northern States Power Co — Sherburne County						
Montana	4,761	8,710	0.66	9.65	129.5	22.56
Big Horn	3,806	8,715	.64	9.80	123.6	21.54
Rosebud	954	8,687	.72	9.02	153.3	26.64
Wyoming	3,727	8,814	.25	4.79	113.0	19.93
Campbell	3,704	8,814	.25	4.79	113.2	19.95
Converse	23	8,874	.31	5.20	92.8	16.47
Ohio Edison Co — Burger	**1,305**	**11,846**	**3.00**	**12.03**	**117.6**	**27.87**
Kentucky	3	11,718	1.11	11.40	129.2	30.28
Magoffin	3	11,718	1.11	11.40	129.2	30.28
Ohio	991	11,829	3.09	12.00	110.8	26.22
Athens	5	11,338	2.57	11.20	91.9	20.84
Belmont	535	11,851	3.21	11.93	98.8	23.42
Harrison	24	12,049	3.48	11.67	100.6	24.24
Hocking	51	11,351	3.23	12.30	108.2	24.57
Jefferson	375	11,855	2.89	12.09	129.2	30.63
Pennsylvania	228	11,993	2.62	11.94	149.6	35.89
Washington	228	11,993	2.62	11.94	149.6	35.89
West Virginia	83	11,652	3.07	12.73	108.9	25.39
Kanawha	5	11,574	3.31	13.68	99.0	22.91
Ohio	78	11,657	3.05	12.67	109.6	25.55
Ohio Edison Co — Edgewater	**236**	**11,868**	**1.85**	**10.40**	**135.7**	**32.20**
Ohio	236	11,868	1.85	10.40	135.7	32.20
Carroll	4	11,265	1.09	11.49	146.9	33.10
Columbiana	50	12,152	2.04	10.23	136.1	33.09
Guernsey	53	11,875	1.75	9.89	134.7	32.00
Jefferson	25	11,984	1.44	10.85	141.3	33.88
Mahoning	24	12,342	1.72	9.67	136.1	33.58
Tuscarawas	80	11,537	2.00	10.87	133.4	30.78
Ohio Edison Co — Gorge Steam	**107**	**12,407**	**2.21**	**8.14**	**133.8**	**33.21**
Ohio	106	12,404	2.21	8.14	133.7	33.18
Columbiana	34	12,340	2.15	8.73	140.7	34.72
Harrison	4	12,814	2.32	8.02	136.4	34.95
Mahoning	39	12,697	2.12	8.28	133.1	33.80
Perry	3	12,045	2.25	7.60	118.2	28.48
Tuscarawas	27	12,042	2.40	7.28	127.0	30.58
Pennsylvania	*	13,144	2.40	7.00	153.7	40.40
Fayette	*	13,144	2.40	7.00	153.7	40.40
Ohio Edison Co — Niles	**535**	**11,836**	**2.88**	**11.24**	**109.2**	**25.86**
Ohio	429	11,870	2.90	10.75	110.1	26.14
Belmont	*	11,199	3.15	10.00	112.1	25.11
Carroll	25	11,762	4.19	10.14	107.2	25.22
Columbiana	141	11,983	2.72	10.78	111.5	26.73
Jefferson	102	11,775	2.89	11.37	108.8	25.62
Mahoning	98	11,997	2.82	11.47	110.7	26.56
Stark	14	11,814	3.83	9.91	104.7	24.74
Tuscarawas	48	11,562	2.71	8.50	110.7	25.59
Pennsylvania	107	11,699	2.79	13.18	105.7	24.72
Butler	7	11,315	3.65	14.30	110.8	25.07
Lawrence	99	11,726	2.73	13.10	105.3	24.70
Ohio Edison Co — Sammis	**5,353**	**12,280**	**1.67**	**11.29**	**134.2**	**32.96**
Kentucky	371	12,116	.90	11.09	125.3	30.35
Floyd	9	11,965	1.07	11.03	116.3	27.84
Magoffin	362	12,120	.90	11.09	125.5	30.42
Ohio	1,339	11,873	2.56	12.64	121.7	28.90
Carroll	34	11,509	.83	10.93	126.7	29.18
Columbiana	329	11,998	2.60	12.37	109.1	26.19
Hocking	25	11,413	3.04	12.40	110.7	25.27
Jackson	3	12,181	3.41	11.00	93.2	22.71
Jefferson	938	11,856	2.57	12.82	126.5	30.00
Tuscarawas	9	11,590	3.78	11.55	104.4	24.19
Washington	1	11,713	4.61	11.20	100.3	23.50

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Ohio Edison Co — Sammis						
Pennsylvania	1,521	12,584	1.80	10.27	144.2	36.30
Fayette	1,508	12,589	1.79	10.25	144.8	36.45
Washington	13	11,964	2.54	12.85	79.5	19.03
West Virginia	2,122	12,349	1.16	11.21	136.0	33.58
Clay	2	12,254	1.08	12.30	105.8	25.93
Kanawha	1,277	12,293	.76	11.47	134.1	32.96
Logan	25	11,785	.78	12.07	124.0	29.22
Marion	15	12,088	2.92	12.50	113.7	27.49
Mingo	70	11,931	1.38	13.00	126.7	30.22
Nicholas	51	12,253	1.18	11.96	115.3	28.25
Ohio	46	11,820	2.86	12.10	110.5	26.13
Preston	636	12,583	1.79	10.31	145.0	36.49
Ohio Edison Co — Toronto	**317**	**11,714**	**4.06**	**12.77**	**104.7**	**24.52**
Ohio	311	11,701	4.10	12.78	103.9	24.30
Belmont	48	12,000	4.93	11.79	102.1	24.50
Carroll	29	11,487	4.50	12.01	100.4	23.07
Columbiana	3	12,095	2.53	11.43	100.6	24.34
Jackson	17	11,753	3.75	13.52	96.6	22.70
Jefferson	185	11,696	3.83	13.18	105.3	24.62
Stark	23	11,387	4.45	11.98	106.7	24.29
Tuscarawas	7	11,387	4.06	13.46	102.8	23.41
Pennsylvania	4	12,473	1.92	12.10	147.3	36.75
Fayette	4	12,473	1.92	12.10	147.3	36.75
West Virginia	2	12,473	1.92	12.10	147.3	36.75
Preston	2	12,473	1.92	12.10	147.3	36.75
Ohio Power Co — Gavin	**6,421**	**11,294**	**3.36**	**12.52**	**184.1**	**41.59**
Ohio	6,193	11,256	3.36	12.60	184.6	41.55
Belmont	290	11,757	2.88	12.48	164.2	38.62
Harrison	91	11,967	3.28	10.30	157.4	37.66
Hocking	15	11,479	3.54	12.29	111.2	25.54
Jackson	29	11,122	3.18	10.97	111.8	24.87
Meigs	5,478	11,198	3.43	12.74	188.3	42.17
Perry	168	11,743	2.03	9.58	170.1	39.95
Vinton	60	11,020	3.49	12.89	111.3	24.54
Unknown	60	11,910	2.91	12.99	162.5	38.71
West Virginia	229	12,335	3.28	10.41	172.8	42.63
Brooke	228	12,337	3.29	10.40	172.9	42.66
Clay	1	12,000	1.00	13.00	144.2	34.61
Ohio Power Co — Kammer	**1,951**	**12,170**	**4.26**	**12.74**	**129.8**	**31.58**
Ohio	295	12,328	3.89	10.34	86.2	21.26
Belmont	295	12,328	3.89	10.34	86.2	21.26
West Virginia	1,656	12,142	4.33	13.17	137.6	33.42
Marshall	1,656	12,142	4.33	13.17	137.6	33.42
Ohio Power Co — Mitchell	**2,962**	**11,906**	**1.32**	**16.06**	**181.8**	**43.29**
West Virginia	2,962	11,906	1.32	16.06	181.8	43.29
Marion	2,909	11,890	1.32	16.17	182.4	43.37
Preston	12	11,932	1.74	11.26	154.1	36.76
Randolph	42	12,958	1.03	10.19	153.9	39.89
Ohio Power Co — Muskingum	**3,287**	**11,462**	**4.17**	**12.26**	**173.0**	**39.66**
Kentucky	63	11,969	.66	11.24	156.9	37.56
Johnson	29	11,963	.64	11.44	155.9	37.30
Unknown	34	11,975	.68	11.06	157.8	37.79
Ohio	3,083	11,426	4.40	12.31	173.8	39.71
Jackson	13	10,113	.67	12.95	157.0	31.76
Muskingum	311	11,423	4.60	12.55	175.1	39.99
Noble	2,516	11,423	4.60	12.55	175.1	39.99
Perry	242	11,538	2.19	9.53	159.5	36.82
West Virginia	142	12,009	.71	11.61	164.8	39.58
Boone	134	12,010	.72	11.61	165.9	39.86
Fayette	6	11,995	.58	11.60	146.1	35.05
Kanawha	2	11,996	.58	11.60	146.0	35.04
Ohio Power Co — Tidd	**11**	**12,205**	**3.21**	**11.52**	**129.6**	**31.64**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Ohio Power Co Tidd						
Ohio	11	12,205	3.21	11.52	129.6	31.64
Jefferson	11	12,205	3.21	11.52	129.6	31.64
Ohio Valley Electric Corp Kyger Creek	**3,510**	**11,860**	**3.80**	**10.75**	**121.5**	**28.82**
Ohio	1,177	11,241	3.57	11.86	101.1	22.72
Belmont	100	12,098	3.94	10.48	95.9	23.20
Hocking	702	11,156	3.58	12.41	102.5	22.87
Jackson	375	11,170	3.44	11.19	99.8	22.30
West Virginia	2,333	12,172	3.91	10.19	131.0	31.89
Marshall	2,333	12,172	3.91	10.19	131.0	31.89
Oklahoma Gas & Electric Co Muskogee	**3,487**	**9,111**	**.44**	**5.38**	**136.8**	**24.92**
Oklahoma	283	12,922	1.36	8.40	142.2	36.74
Haskell	28	12,638	1.30	8.34	145.7	36.83
Le Flore	120	12,875	1.32	10.27	144.7	37.26
Muskogee	135	13,022	1.41	6.75	139.2	36.26
Wyoming	3,205	8,775	.36	5.12	136.1	23.88
Campbell	3,205	8,775	.36	5.12	136.1	23.88
Oklahoma Gas & Electric Co Sooner	**3,061**	**9,001**	**.43**	**5.47**	**140.7**	**25.33**
Oklahoma	193	11,852	1.39	11.14	149.2	35.36
Rogers	193	11,852	1.39	11.14	149.2	35.36
Wyoming	2,868	8,809	.37	5.09	139.9	24.65
Campbell	2,868	8,809	.37	5.09	139.9	24.65
Omaha Public Power District Nebraska City	**1,918**	**8,248**	**.33**	**4.79**	**65.5**	**10.81**
Wyoming	1,918	8,248	.33	4.79	65.5	10.81
Campbell	1,918	8,248	.33	4.79	65.5	10.81
Omaha Public Power District North Omaha	**1,530**	**8,353**	**.35**	**4.86**	**65.9**	**11.01**
Wyoming	1,530	8,353	.35	4.86	65.9	11.01
Campbell	1,530	8,353	.35	4.86	65.9	11.01
Orange and Rockland Utils Inc Lovett	**687**	**13,101**	**.57**	**7.04**	**214.6**	**56.24**
Kentucky	249	13,247	.52	6.20	221.3	58.64
Pike	249	13,247	.52	6.20	221.3	58.64
West Virginia	437	13,018	.60	7.52	210.8	54.87
Mingo	437	13,018	.60	7.52	210.8	54.87
Orlando Utilities Comm Stanton Energy	**996**	**12,732**	**.80**	**9.52**	**189.7**	**48.30**
Kentucky	996	12,732	.80	9.52	189.7	48.30
Letcher	996	12,732	.80	9.52	189.7	48.30
Otter Tail Power Co Big Stone	**2,078**	**6,096**	**.90**	**8.44**	**114.6**	**13.97**
North Dakota	2,067	6,081	.90	8.46	114.6	13.93
Bowman	2,067	6,081	.90	8.46	114.6	13.93
Wyoming	11	8,849	.36	5.20	113.7	20.13
Campbell	11	8,849	.36	5.20	113.7	20.13
Otter Tail Power Co Hoot Lake	**175**	**9,254**	**.38**	**4.28**	**126.2**	**23.36**
Montana	141	9,290	.33	4.10	127.5	23.68
Big Horn	141	9,290	.33	4.10	127.5	23.68
North Dakota	1	6,978	.61	7.04	174.4	24.34
Oliver	1	6,978	.61	7.04	174.4	24.34
Wyoming	33	9,167	.57	4.97	119.7	21.94
Sheridan	33	9,167	.57	4.97	119.7	21.94
Owensboro City of Smith	**1,003**	**10,669**	**2.97**	**12.37**	**110.2**	**23.52**
Indiana	573	10,676	2.96	12.30	109.9	23.46
Daviess	573	10,676	2.96	12.30	109.9	23.46
Kentucky	430	10,659	2.98	12.47	110.7	23.61
Breathitt	18	10,680	2.85	13.80	116.3	24.84
Daviess	338	10,659	3.00	12.46	110.2	23.49
Hancock	74	10,655	2.89	12.17	111.9	23.84
PacifiCorp Carbon	**585**	**11,951**	**.56**	**8.95**	**92.6**	**22.13**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
PacifiCorp — Carbon						
Utah	585	11,951	0.56	8.95	92.6	22.13
Carbon	192	11,862	.64	9.43	90.0	21.34
Emery	393	11,995	.52	8.71	93.8	22.51
PacifiCorp — Centralia	**5,044**	**8,135**	**.70**	**14.62**	**157.6**	**25.64**
Washington	4,696	8,104	.73	15.33	160.0	25.93
King	8	10,443	.72	24.09	130.5	27.26
Lewis	1,848	8,100	.71	14.95	157.2	25.47
Thurston	2,840	8,100	.75	15.55	161.9	26.22
Wyoming	348	8,554	.30	4.98	127.4	21.80
Campbell	348	8,554	.30	4.98	127.4	21.80
PacifiCorp — Emery-Hunter	**4,267**	**11,380**	**.48**	**11.40**	**75.4**	**17.16**
Utah	4,267	11,380	.48	11.40	75.4	17.16
Emery	4,267	11,380	.48	11.40	75.4	17.16
PacifiCorp — Huntington	**2,832**	**11,565**	**.47**	**12.28**	**83.8**	**19.38**
Utah	2,832	11,565	.47	12.28	83.8	19.38
Emery	2,832	11,565	.47	12.28	83.8	19.38
PacifiCorp — Jim Bridger	**7,758**	**9,670**	**.61**	**9.46**	**105.2**	**20.34**
Wyoming	7,758	9,670	.61	9.46	105.2	20.34
Campbell	22	8,776	.22	4.68	85.7	15.05
Sweetwater	7,736	9,673	.61	9.47	105.2	20.35
PacifiCorp — Johnston	**4,041**	**7,889**	**.41**	**9.23**	**62.3**	**9.83**
Wyoming	4,041	7,889	.41	9.23	62.3	9.83
Campbell	1,362	8,589	.28	4.70	47.5	8.16
Converse	2,679	7,534	.47	11.53	70.8	10.67
PacifiCorp — Naughton	**2,518**	**9,599**	**.86**	**6.12**	**116.9**	**22.43**
Wyoming	2,518	9,599	.86	6.12	116.9	22.43
Lincoln	2,518	9,599	.86	6.12	116.9	22.43
PacifiCorp — Wyodak	**1,945**	**8,021**	**.65**	**7.62**	**61.2**	**9.82**
Wyoming	1,945	8,021	.65	7.62	61.2	9.82
Campbell	1,945	8,021	.65	7.62	61.2	9.82
Painesville City of — Painesville	**88**	**12,211**	**2.85**	**9.37**	**138.2**	**33.76**
Ohio	59	12,221	3.02	8.53	141.8	34.67
Columbiana	8	12,255	2.78	8.24	146.3	35.85
Tuscarawas	51	12,216	3.06	8.57	141.2	34.49
Pennsylvania	29	12,191	2.49	11.08	130.9	31.91
Butler	28	12,178	2.49	11.15	130.6	31.80
Clarion	1	12,636	2.72	8.70	141.9	35.86
Pennsylvania Electric Co — Conemaugh	**4,850**	**12,346**	**2.21**	**14.44**	**155.4**	**38.37**
Pennsylvania	4,850	12,346	2.21	14.44	155.4	38.37
Armstrong	256	12,286	2.16	14.06	118.3	29.07
Cambria	170	12,355	2.14	13.02	123.1	30.41
Clearfield	122	12,314	2.05	14.07	132.2	32.55
Fayette	207	12,317	2.27	13.79	129.9	32.01
Greene	5	13,000	2.10	6.80	151.9	39.49
Indiana	3,009	12,321	2.22	15.21	173.0	42.62
Somerset	804	12,424	2.22	12.91	128.2	31.85
Westmoreland	277	12,460	2.14	12.50	128.0	31.91
Pennsylvania Electric Co — Front St	**205**	**12,329**	**1.89**	**10.00**	**146.1**	**36.01**
Pennsylvania	205	12,329	1.89	10.00	146.1	36.01
Armstrong	29	12,436	1.87	9.40	152.7	37.99
Butler	88	12,207	1.95	10.37	144.1	35.18
Clarion	4	12,501	1.66	8.40	156.8	39.19
Clearfield	1	12,446	1.60	7.40	150.0	37.34
Indiana	12	12,072	1.61	11.24	146.9	35.47
Jefferson	2	12,119	1.50	11.60	149.7	36.28
Mercer	37	12,608	1.90	8.99	138.2	34.86
Somerset	21	12,304	1.80	10.20	154.2	37.95
Washington	11	12,369	2.09	10.69	149.4	36.95

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Pennsylvania Electric Co Homer City	**5,978**	**11,706**	**1.61**	**17.50**	**149.5**	**35.01**
Pennsylvania	5,978	11,706	1.61	17.50	149.5	35.01
Allegheny	214	11,169	1.39	18.70	153.5	34.28
Armstrong	239	11,951	1.44	13.98	145.6	34.80
Cambria	709	12,169	1.01	14.41	156.3	38.03
Centre	33	12,536	.70	10.69	197.1	49.42
Clarion	8	12,669	.74	10.95	173.6	44.00
Clearfield	108	12,323	.99	12.07	152.4	37.56
Indiana	3,580	11,451	1.89	19.85	147.8	33.84
Jefferson	87	12,116	1.23	11.12	144.6	35.03
Mercer	8	11,206	2.02	21.50	127.6	28.60
Somerset	883	12,225	1.23	13.35	149.6	36.58
Washington	22	12,118	1.43	12.71	141.6	34.30
Westmoreland	87	12,201	1.34	11.96	148.3	36.18
Pennsylvania Electric Co Keystone	**4,501**	**12,265**	**1.62**	**14.38**	**141.0**	**34.59**
Pennsylvania	4,501	12,265	1.62	14.38	141.0	34.59
Armstrong	2,745	12,266	1.62	14.30	140.8	34.53
Indiana	1,627	12,249	1.56	14.60	143.1	35.06
Venango	129	12,450	2.21	13.22	119.6	29.77
Pennsylvania Electric Co Seward	**537**	**12,039**	**1.56**	**13.33**	**129.3**	**31.13**
Pennsylvania	537	12,039	1.56	13.33	129.3	31.13
Armstrong	4	11,869	1.56	13.90	134.3	31.88
Butler	20	11,937	1.57	12.41	125.0	29.85
Cambria	211	11,949	1.62	13.50	129.0	30.82
Clearfield	1	11,847	1.56	12.70	137.1	32.48
Indiana	41	12,121	1.48	13.19	126.4	30.64
Somerset	231	12,130	1.54	13.26	130.6	31.69
Westmoreland	29	11,946	1.50	13.45	126.8	30.28
Pennsylvania Electric Co Shawville	**1,606**	**12,129**	**1.93**	**13.67**	**118.5**	**28.74**
Pennsylvania	1,606	12,129	1.93	13.67	118.5	28.74
Cambria	10	12,089	2.05	12.70	116.6	28.19
Clearfield	1,596	12,129	1.93	13.68	118.5	28.74
Pennsylvania Electric Co Warren	**243**	**12,392**	**1.86**	**10.16**	**136.2**	**33.76**
Pennsylvania	243	12,392	1.86	10.16	136.2	33.76
Allegheny	3	12,451	1.83	8.80	137.5	34.24
Armstrong	21	12,603	1.88	10.15	137.3	34.60
Butler	23	12,503	2.11	10.06	136.3	34.08
Clarion	96	12,225	1.70	10.66	133.4	32.63
Clearfield	4	12,158	1.81	11.30	132.9	32.32
Elk	13	12,150	1.75	10.34	141.9	34.49
Jefferson	78	12,532	1.97	9.60	136.8	34.30
Westmoreland	5	12,811	2.18	9.10	159.8	40.94
Pennsylvania Power & Light Co Martins Creek	**738**	**12,794**	**1.96**	**10.92**	**176.1**	**45.05**
Pennsylvania	709	12,770	1.93	11.10	177.1	45.22
Allegheny	40	12,565	1.99	11.45	161.9	40.69
Armstrong	12	12,500	1.95	11.72	166.0	41.49
Clarion	5	12,102	2.17	13.20	161.4	39.07
Clearfield	20	12,341	1.84	14.30	158.7	39.17
Greene	160	13,373	1.77	7.08	157.6	42.16
Indiana	422	12,554	2.07	12.67	190.4	47.80
Jefferson	40	13,105	1.25	9.12	154.2	40.40
Washington	10	13,224	1.40	7.30	160.9	42.55
West Virginia	29	13,383	2.60	6.70	152.3	40.77
Monongalia	29	13,383	2.60	6.70	152.3	40.77
Pennsylvania Power & Light Co Montour	**4,363**	**12,469**	**1.88**	**13.57**	**171.1**	**42.68**
Pennsylvania	4,363	12,469	1.88	13.57	171.1	42.68
Cambria	1,892	12,425	1.82	13.63	192.1	47.73
Clearfield	1,949	12,500	1.96	13.78	157.1	39.27
Indiana	225	12,445	1.71	12.24	148.1	36.87
Jefferson	297	12,563	1.93	12.81	148.4	37.27
Pennsylvania Power & Light Co Brunner Island	**3,930**	**12,414**	**1.95**	**13.72**	**183.0**	**45.43**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Pennsylvania Power & Light Co Brunner Island						
Pennsylvania	3,930	12,414	1.95	13.72	183.0	45.43
Cambria	524	12,518	1.99	12.60	144.0	36.05
Clarion	10	12,603	1.79	10.80	147.4	37.15
Clearfield	1,074	12,427	2.08	14.01	187.3	46.56
Greene	90	13,334	1.74	6.95	151.0	40.26
Indiana	2,212	12,342	1.89	14.14	192.0	47.40
Jefferson	20	12,770	1.52	12.00	151.5	38.68
Pennsylvania Power & Light Co Holtwood	**299**	**8,378**	**.66**	**30.17**	**112.3**	**18.82**
Pennsylvania	299	8,378	.66	30.17	112.3	18.82
Chester	35	10,300	.49	16.32	149.5	30.80
Dauphin	9	9,391	.81	25.36	127.5	23.95
Northumberland	1	10,513	.77	19.40	171.2	36.00
Schuylkill	242	7,946	.69	33.14	102.1	16.22
Unknown	12	10,552	.47	15.20	147.1	31.04
Pennsylvania Power & Light Co Sunbury	**1,103**	**10,536**	**1.54**	**22.16**	**127.7**	**26.91**
Pennsylvania	1,103	10,536	1.54	22.16	127.7	26.91
Bedford	40	12,641	1.83	13.29	142.8	36.09
Carbon	2	11,408	.59	10.80	152.0	34.68
Centre	81	12,312	2.01	14.38	140.8	34.66
Clarion	23	12,510	2.42	9.82	132.1	33.06
Clearfield	483	12,450	2.12	13.23	148.3	36.92
Dauphin	4	10,995	.79	18.90	136.9	30.10
Fulton	8	12,594	2.33	13.39	133.4	33.59
Jefferson	9	8,446	1.86	41.71	90.2	15.24
Lackawanna	13	6,898	.94	40.45	79.2	10.93
Northumberland	112	7,541	.83	35.13	77.4	11.67
Schuylkill	285	7,994	.73	33.46	89.8	14.35
Somerset	6	12,914	1.84	12.93	137.5	35.51
Sullivan	35	7,513	.59	41.52	80.9	12.16
Unknown	2	10,611	.52	14.30	160.7	34.10
Pennsylvania Power Co New Castle	**717**	**12,105**	**1.47**	**10.59**	**129.1**	**31.26**
Ohio	61	12,529	1.57	8.69	125.9	31.56
Carroll	6	11,652	.86	11.21	141.8	33.04
Columbiana	22	12,587	1.61	9.37	121.2	30.51
Jefferson	6	12,152	1.15	10.74	137.2	33.36
Mahoning	22	13,132	1.90	5.98	118.0	30.99
Tuscarawas	6	11,435	1.29	11.40	149.0	34.06
Pennsylvania	656	12,065	1.46	10.77	129.4	31.24
Armstrong	279	12,085	1.50	11.32	132.0	31.91
Beaver	7	11,878	1.11	10.27	133.3	31.67
Butler	128	11,952	1.30	9.05	125.1	29.90
Lawrence	17	12,229	1.22	9.87	134.3	32.85
Mercer	170	12,151	1.55	10.81	129.9	31.58
Washington	54	11,936	1.53	12.17	122.8	29.32
Pennsylvania Power Co Bruce Mansfield	**6,044**	**12,081**	**4.17**	**11.90**	**151.3**	**36.57**
Ohio	1,707	12,066	4.14	11.89	151.5	36.57
Belmont	43	11,951	3.85	12.10	154.0	36.81
Jefferson	257	12,073	4.17	11.94	150.8	36.42
Mahoning	28	12,131	4.30	11.60	149.2	36.20
Monroe	1,359	12,066	4.14	11.88	151.7	36.60
Tuscarawas	20	12,131	4.16	11.98	150.9	36.61
Pennsylvania	389	12,076	4.16	11.92	151.5	36.59
Butler	27	12,064	4.09	11.60	154.4	37.25
Washington	362	12,077	4.16	11.95	151.3	36.54
West Virginia	3,948	12,088	4.18	11.90	151.2	36.56
Marshall	3,932	12,089	4.18	11.90	151.2	36.56
Ohio	17	11,951	3.85	12.10	154.0	36.81
Philadelphia Electric Co Cromby	**185**	**13,039**	**1.38**	**6.97**	**165.0**	**43.02**
Pennsylvania	43	12,984	1.51	6.85	166.9	43.34
Clarion	7	12,877	1.19	8.20	176.1	45.35
Greene	7	13,048	1.88	5.90	169.7	44.28
Washington	29	12,995	1.50	6.75	164.0	42.63

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Philadelphia Electric Co Cromby						
West Virginia	142	13,055	1.34	7.01	164.4	42.92
Barbour	14	12,903	1.47	8.30	170.1	43.90
Braxton	20	12,733	.83	8.73	168.6	42.93
Monongalia	102	13,166	1.43	6.45	161.8	42.61
Randolph	6	12,612	1.11	7.90	181.8	45.86
Philadelphia Electric Co Eddystone	**617**	**13,080**	**1.56**	**7.57**	**168.2**	**44.01**
Kentucky	50	12,710	1.26	8.67	177.7	45.16
Clay	50	12,710	1.26	8.67	177.7	45.16
Pennsylvania	256	13,185	1.58	6.92	166.1	43.81
Clarion	28	12,829	1.86	8.16	173.8	44.58
Greene	36	13,268	1.66	6.80	171.5	45.50
Mercer	1	12,888	1.38	6.90	183.2	47.22
Washington	191	13,223	1.52	6.76	164.0	43.36
West Virginia	311	13,053	1.59	7.93	168.5	43.98
Barbour	145	13,018	1.67	8.16	166.7	43.41
Braxton	43	13,050	.84	8.80	172.6	45.04
Monongalia	92	13,124	1.95	7.33	162.9	42.76
Nicholas	12	12,871	1.00	8.22	186.6	48.03
Upshur	7	12,991	2.10	9.10	174.2	45.26
Webster	12	13,163	.95	5.70	195.9	51.57
Plains Elec Gen&Trans Coop Inc Escalante	**836**	**9,223**	**.65**	**17.19**	**131.4**	**24.24**
New Mexico	836	9,223	.65	17.19	131.4	24.24
Mckinley	836	9,223	.65	17.19	131.4	24.24
Platte River Power Authority Rawhide	**1,089**	**8,778**	**.32**	**5.46**	**73.1**	**12.83**
Wyoming	1,089	8,778	.32	5.46	73.1	12.83
Converse	1,089	8,778	.32	5.46	73.1	12.83
Portland General Electric Co Boardman	**968**	**8,348**	**.31**	**4.57**	**107.9**	**18.02**
Wyoming	968	8,348	.31	4.57	107.9	18.02
Campbell	968	8,348	.31	4.57	107.9	18.02
Potomac Edison Co Smith	**205**	**12,893**	**1.02**	**9.85**	**151.4**	**39.05**
Maryland	186	12,991	1.03	9.56	152.8	39.70
Allegany	47	12,191	.94	12.34	152.9	37.29
Garrett	139	13,260	1.06	8.62	152.7	40.51
Pennsylvania	19	11,948	.94	12.71	137.1	32.76
Huntingdon	1	11,246	.72	14.68	117.6	26.44
Somerset	18	11,979	.95	12.62	137.9	33.04
Potomac Electric Power Co Chalk	**1,909**	**12,561**	**1.85**	**12.00**	**176.7**	**44.40**
Maryland	401	12,747	1.78	11.48	175.8	44.82
Allegany	7	12,351	2.00	12.60	178.8	44.17
Garrett	394	12,754	1.78	11.46	175.7	44.83
Pennsylvania	1,305	12,468	1.89	12.36	178.9	44.62
Cambria	492	12,364	1.88	12.09	182.3	45.07
Clearfield	451	12,421	1.97	12.46	184.3	45.79
Somerset	361	12,669	1.79	12.62	167.8	42.53
West Virginia	203	12,795	1.71	10.67	164.9	42.19
Grant	203	12,795	1.71	10.67	164.9	42.19
Potomac Electric Power Co Dickerson	**1,608**	**12,567**	**1.49**	**10.77**	**151.5**	**38.08**
West Virginia	1,608	12,567	1.49	10.77	151.5	38.08
Nicholas	35	12,657	.92	9.72	176.3	44.62
Preston	1,437	12,592	1.54	10.62	149.9	37.75
Randolph	121	12,225	1.21	13.01	161.5	39.49
Webster	15	12,801	.78	9.14	170.1	43.54
Potomac Electric Power Co Morgantown	**2,747**	**12,695**	**1.68**	**11.64**	**175.0**	**44.43**
Maryland	1,146	12,827	1.60	11.32	173.2	44.44
Allegany	7	12,008	1.80	15.20	202.0	48.51
Garrett	1,139	12,832	1.60	11.30	173.0	44.41
Pennsylvania	1,210	12,507	1.79	12.42	180.4	45.13
Cambria	414	12,449	1.87	12.47	184.8	46.00
Clearfield	494	12,423	1.84	12.55	184.7	45.89
Somerset	301	12,727	1.61	12.15	167.7	42.69

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Potomac Electric Power Co Morgantown						
West Virginia	391	12,888	1.58	10.14	164.0	42.27
Grant	391	12,888	1.58	10.14	164.0	42.27
Potomac Electric Power Co Potomac River	**937**	**12,818**	**.77**	**8.23**	**188.4**	**48.31**
Kentucky	322	12,825	.72	8.32	182.8	46.88
Martin	33	12,744	.61	6.73	177.9	45.34
Pike	289	12,834	.73	8.50	183.3	47.06
Virginia	342	12,845	.85	8.09	195.8	50.29
Buchanan	21	12,670	.82	9.18	183.9	46.59
Lee	78	12,661	.87	8.10	199.4	50.49
Wise	242	12,920	.84	7.99	195.6	50.55
West Virginia	273	12,775	.74	8.30	186.0	47.51
Fayette	32	13,031	.81	6.92	187.9	48.97
Mcdowell	9	12,695	.79	11.40	197.5	50.15
Mingo	232	12,742	.73	8.37	185.2	47.21
Public Service Co of Colorado Comanche	**2,239**	**8,491**	**.32**	**4.79**	**116.4**	**19.77**
Wyoming	2,239	8,491	.32	4.79	116.4	19.77
Campbell	2,239	8,491	.32	4.79	116.4	19.77
Public Service Co of Colorado Pawnee	**2,030**	**8,323**	**.34**	**4.61**	**109.6**	**18.24**
Wyoming	2,030	8,323	.34	4.61	109.6	18.24
Campbell	2,030	8,323	.34	4.61	109.6	18.24
Public Service Co of Colorado Valmont	**426**	**11,012**	**.45**	**10.39**	**107.9**	**23.77**
Colorado	426	11,012	.45	10.39	107.9	23.77
Routt	426	11,012	.45	10.39	107.9	23.77
Public Service Co of Colorado Cameo	**193**	**11,452**	**.57**	**8.86**	**96.0**	**21.98**
Colorado	193	11,452	.57	8.86	96.0	21.98
Garfield	1	11,728	.56	11.40	77.5	18.18
Gunnison	4	11,927	.48	7.77	105.0	25.04
Mesa	187	11,438	.58	8.87	95.9	21.93
Public Service Co of Colorado Cherokee	**1,815**	**10,633**	**.43**	**8.76**	**118.2**	**25.14**
Colorado	1,815	10,633	.43	8.76	118.2	25.14
Gunnison	210	11,409	.46	8.30	142.4	32.50
Moffat	1,360	10,423	.42	8.52	115.7	24.11
Routt	245	11,128	.43	10.50	110.4	24.57
Public Service Co of Colorado Arapahoe	**569**	**10,949**	**.43**	**10.36**	**115.5**	**25.29**
Colorado	569	10,949	.43	10.36	115.5	25.29
Moffat	84	10,333	.43	9.31	136.8	28.28
Routt	485	11,056	.44	10.55	112.0	24.77
Public Service Co of IN Inc Gibson Station	**7,841**	**10,872**	**2.48**	**10.24**	**159.7**	**34.72**
Illinois	6,084	10,723	2.44	10.81	167.0	35.81
Clinton	2,975	10,659	3.40	8.94	168.8	35.99
Wabash	3,109	10,784	1.53	12.60	165.2	35.63
Indiana	1,757	11,389	2.61	8.25	135.8	30.94
Pike	1,757	11,389	2.61	8.25	135.8	30.94
Public Service Co of IN Inc Gallagher	**1,090**	**10,959**	**2.35**	**9.10**	**134.9**	**29.56**
Indiana	1,050	10,943	2.34	9.01	135.5	29.66
Pike	6	11,042	2.47	8.20	156.1	34.47
Warrick	1,044	10,942	2.34	9.01	135.4	29.63
Kentucky	20	11,132	2.51	9.33	116.4	25.93
Daviess	6	10,769	2.55	11.20	129.4	27.88
Hopkins	13	11,299	2.49	8.47	110.8	25.03
Ohio	20	11,629	2.55	13.50	119.5	27.79
Belmont	20	11,629	2.55	13.50	119.5	27.79
Public Service Co of IN Inc Cayuga	**2,882**	**10,862**	**2.23**	**10.47**	**125.5**	**27.25**
Illinois	146	11,174	2.26	8.46	113.5	25.37
Douglas	146	11,174	2.26	8.46	113.5	25.37
Indiana	2,735	10,845	2.23	10.57	126.1	27.35
Clay	246	11,281	2.00	6.89	118.0	26.63
Sullivan	376	10,900	2.34	10.89	119.8	26.11
Vermillion	2,047	10,781	2.24	11.01	128.6	27.72
Vigo	66	10,901	2.22	9.05	117.3	25.57

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Public Service Co of IN Inc Edwardsport	**101**	**10,662**	**2.66**	**12.05**	**116.6**	**24.86**
Indiana	101	10,662	2.66	12.05	116.6	24.86
Sullivan	101	10,662	2.66	12.05	116.6	24.86
Public Service Co of IN Inc Wabash River	**1,631**	**10,915**	**2.08**	**10.29**	**126.4**	**27.60**
Illinois	114	11,198	2.23	8.16	113.5	25.43
Douglas	114	11,198	2.23	8.16	113.5	25.43
Indiana	1,517	10,894	2.07	10.45	127.4	27.76
Clay	64	10,784	2.03	11.04	125.9	27.15
Daviess	54	11,010	1.91	9.30	130.7	28.79
Greene	160	11,043	2.12	9.53	127.7	28.20
Sullivan	1,130	10,863	2.12	10.70	127.8	27.77
Vigo	109	11,002	1.51	9.38	122.4	26.92
Public Service Co of IN Inc Noblesville	**40**	**11,264**	**1.98**	**6.77**	**130.8**	**29.47**
Indiana	40	11,264	1.98	6.77	130.8	29.47
Clay	40	11,264	1.98	6.77	130.8	29.47
Public Service Co of NH Merrimack	**971**	**13,364**	**2.13**	**6.96**	**174.5**	**46.65**
Pennsylvania	273	13,308	1.36	6.37	178.7	47.55
Greene	273	13,308	1.36	6.37	178.7	47.55
West Virginia	697	13,386	2.43	7.19	172.9	46.29
Marion	286	13,459	2.38	7.75	172.1	46.32
Monongalia	321	13,363	2.57	6.82	171.9	45.93
Ohio	38	13,401	2.66	6.10	173.5	46.50
Upshur	52	13,110	1.61	7.22	183.9	48.22
Public Service Co of NH Schiller	**300**	**13,105**	**.80**	**6.05**	**190.0**	**49.81**
Kentucky	17	12,968	.88	6.60	201.2	52.20
Pike	17	12,968	.88	6.60	201.2	52.20
Pennsylvania	22	13,072	1.31	6.51	184.1	48.13
Greene	22	13,072	1.31	6.51	184.1	48.13
West Virginia	117	13,030	.85	7.09	194.4	50.67
Boone	117	13,030	.85	7.09	194.4	50.67
Imported	144	13,188	.68	5.07	186.1	49.08
Imported Coal	144	13,188	.68	5.07	186.1	49.08
Public Service Co of NM San Juan	**5,683**	**9,644**	**.80**	**22.03**	**170.4**	**32.87**
New Mexico	5,683	9,644	.80	22.03	170.4	32.87
San Juan	5,683	9,644	.80	22.03	170.4	32.87
Public Service Co of Oklahoma Northeastern	**3,312**	**8,939**	**.48**	**6.13**	**164.2**	**29.35**
Oklahoma	162	11,681	.56	10.95	145.5	33.99
Craig	162	11,681	.56	10.95	145.5	33.99
Wyoming	3,150	8,798	.48	5.88	165.4	29.11
Campbell	3,150	8,798	.48	5.88	165.4	29.11
Public Service Electric&Gas Co Hudson	**1,100**	**13,093**	**.80**	**8.12**	**180.9**	**47.37**
Kentucky	47	13,051	.75	7.58	190.1	49.61
Letcher	8	12,922	.77	6.60	191.5	49.49
Pike	39	13,077	.75	7.78	189.8	49.63
Pennsylvania	19	13,133	.84	7.89	183.0	48.06
Clearfield	19	13,133	.84	7.89	183.0	48.06
West Virginia	1,034	13,094	.81	8.15	180.5	47.26
Boone	234	13,116	.80	7.98	179.8	47.18
Logan	17	12,539	.77	8.91	197.8	49.61
Mcdowell	8	13,432	.89	7.00	183.5	49.30
Mingo	24	13,281	.67	6.29	183.6	48.78
Nicholas	148	13,150	.82	8.51	181.1	47.64
Randolph	*	12,663	.83	9.20	182.9	46.32
Webster	602	13,076	.81	8.20	179.9	47.05
Public Service Electric&Gas Co Mercer	**963**	**14,108**	**.80**	**4.71**	**177.8**	**50.16**
Kentucky	*	13,045	.84	7.10	189.2	49.36
Pike	*	13,045	.84	7.10	189.2	49.36
Virginia	963	14,108	.80	4.71	177.8	50.16
Buchanan	744	14,225	.77	4.45	175.8	50.00
Lee	1	13,148	.78	6.10	183.4	48.23
Russell	82	13,835	.83	6.40	176.0	48.69
Wise	135	13,636	.91	5.07	190.4	51.93

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Public Service Electric&Gas Co Mercer						
West Virginia	*	13,079	0.76	7.07	178.2	46.62
Mcdowell	*	13,432	.89	7.00	179.5	48.22
Mingo	*	12,962	.72	7.10	177.8	46.09
Richmond City of Whitewater	**235**	**11,344**	**2.63**	**10.94**	**159.0**	**36.07**
Indiana	188	11,238	2.72	11.32	166.0	37.32
Daviess	188	11,238	2.72	11.32	166.0	37.32
Kentucky	12	11,824	1.10	9.86	134.4	31.77
Perry	7	11,932	1.39	11.57	134.1	32.00
Unknown	5	11,671	.69	7.44	134.8	31.46
Ohio	34	11,753	2.71	9.25	130.8	30.75
Coshocton	5	11,564	2.83	9.79	129.7	30.00
Perry	29	11,788	2.69	9.15	131.0	30.88
Rochester City of Silver Lake	**65**	**12,073**	**1.62**	**7.36**	**174.4**	**42.12**
Illinois	51	12,126	1.62	6.94	178.4	43.26
Hamilton	28	12,229	1.40	6.25	186.4	45.60
Saline	23	11,999	1.90	7.79	168.3	40.39
Indiana	4	10,579	2.41	11.47	123.7	26.17
Daviess	4	10,579	2.41	11.47	123.7	26.17
Kentucky	5	12,538	1.36	9.10	174.9	43.85
Floyd	2	11,948	1.29	10.97	172.1	41.13
Martin	2	12,731	1.17	7.82	176.0	44.81
Owsley	2	12,887	1.58	8.58	176.2	45.41
Pennsylvania	3	13,326	1.36	5.88	175.8	46.85
Washington	3	13,326	1.36	5.88	175.8	46.85
West Virginia	2	12,482	1.19	11.48	169.3	42.26
Kanawha	2	12,482	1.19	11.48	169.3	42.26
Wyoming	2	9,880	1.30	3.50	158.0	31.22
Campbell	2	9,880	1.30	3.50	158.0	31.22
Rochester Gas & Electric Corp Rochester 3	**212**	**13,244**	**2.13**	**7.29**	**160.8**	**42.61**
Ohio	6	12,440	1.95	9.84	163.9	40.78
Columbiana	6	12,440	1.95	9.84	163.9	40.78
Pennsylvania	86	13,095	1.88	7.27	158.0	41.39
Clarion	29	12,868	2.03	8.61	151.9	39.08
Greene	50	13,246	1.82	6.61	160.9	42.63
Mercer	6	12,960	1.62	6.37	163.2	42.30
Washington	2	13,030	1.49	6.10	160.1	41.72
West Virginia	119	13,396	2.33	7.18	162.7	43.59
Marion	30	13,357	2.28	7.57	161.4	43.11
Monongalia	89	13,409	2.35	7.04	163.1	43.75
Rochester Gas & Electric Corp Rochester 7	**601**	**13,159**	**2.11**	**7.18**	**160.6**	**42.27**
Ohio	24	12,692	2.08	8.53	161.7	41.05
Columbiana	24	12,692	2.08	8.53	161.7	41.05
Pennsylvania	278	13,042	1.88	7.18	157.9	41.19
Clarion	76	12,685	2.11	8.54	154.1	39.10
Greene	145	13,181	1.84	6.65	160.7	42.37
Jefferson	14	13,163	1.97	7.96	150.0	39.48
Mercer	13	12,944	1.56	6.13	163.4	42.29
Washington	29	13,259	1.60	6.41	155.0	41.09
West Virginia	299	13,306	2.33	7.06	163.0	43.37
Marion	87	13,309	2.34	7.67	159.7	42.52
Monongalia	212	13,305	2.32	6.82	164.3	43.72
Salt River Proj Ag I & P Dist Coronado	**2,038**	**9,816**	**.47**	**14.35**	**203.4**	**39.94**
New Mexico	2,038	9,816	.47	14.35	203.4	39.94
Mckinley	2,038	9,816	.47	14.35	203.4	39.94
Salt River Proj Ag I & P Dist Navajo	**7,276**	**11,047**	**.48**	**8.64**	**100.6**	**22.23**
Arizona	7,276	11,047	.48	8.64	100.6	22.23
Navajo	7,276	11,047	.48	8.64	100.6	22.23
San Antonio City of J T Deely	**2,655**	**8,376**	**.40**	**6.13**	**126.5**	**21.19**
Wyoming	2,655	8,376	.40	6.13	126.5	21.19
Campbell	2,655	8,376	.40	6.13	126.5	21.19
San Miguel Electric Coop Inc San Miguel	**3,015**	**5,521**	**1.90**	**23.26**	**87.2**	**9.63**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
San Miguel Electric Coop Inc San Miguel						
Texas	3,015	5,521	1.90	23.26	87.2	9.63
Atascosa	3,015	5,521	1.90	23.26	87.2	9.63
Savannah Electric & Power Inc Mcintosh	**372**	**12,370**	**1.01**	**9.84**	**172.9**	**42.77**
Kentucky	372	12,370	1.01	9.84	172.9	42.77
Floyd	8	12,467	1.27	8.40	167.0	41.64
Harlan	306	12,413	.97	9.68	173.3	43.02
Perry	50	12,052	1.18	11.14	171.6	41.37
Pike	7	12,649	1.23	9.10	169.2	42.80
Savannah Electric & Power Inc Port Wentworth	**418**	**12,946**	**1.06**	**8.66**	**166.9**	**43.21**
Virginia	418	12,946	1.06	8.66	166.9	43.21
Lee	142	12,716	.96	9.04	166.5	42.34
Russell	19	13,210	.80	8.96	161.0	42.54
Wise	257	13,052	1.13	8.43	167.5	43.74
Seminole Electric Coop Inc Seminole	**3,144**	**12,118**	**2.89**	**8.67**	**204.6**	**49.59**
Illinois	1,223	11,663	2.82	7.55	217.7	50.78
White	1,223	11,663	2.82	7.55	217.7	50.78
Kentucky	1,921	12,407	2.94	9.38	196.8	48.84
Harlan	60	12,532	1.05	9.74	161.0	40.36
Hopkins	89	11,801	3.19	10.99	190.6	44.98
Webster	1,772	12,434	2.99	9.29	198.3	49.32
Sierra Pacific Power Co North Valmy	**1,420**	**10,575**	**.39**	**8.97**	**193.0**	**40.83**
Utah	845	11,204	.36	9.09	187.4	41.99
Sevier	845	11,204	.36	9.09	187.4	41.99
Wyoming	575	9,650	.43	8.80	202.7	39.11
Sweetwater	575	9,650	.43	8.80	202.7	39.11
Sikeston City of Sikeston	**650**	**11,351**	**2.63**	**11.98**	**149.5**	**33.94**
Illinois	630	11,388	2.71	12.00	149.7	34.10
Saline	630	11,388	2.71	12.00	149.7	34.10
Wyoming	20	10,190	.24	11.49	142.0	28.95
Carbon	20	10,190	.24	11.49	142.0	28.95
South Carolina Electric&Gas Co Canadys	**768**	**12,806**	**1.26**	**8.83**	**170.8**	**43.76**
Kentucky	665	12,770	1.25	8.86	171.7	43.84
Bell	41	13,063	.96	7.92	176.6	46.14
Harlan	104	12,865	1.16	8.90	166.9	42.95
Leslie	280	12,715	1.27	8.90	177.2	45.07
Letcher	86	12,732	1.57	9.48	171.0	43.54
Perry	27	13,106	.78	8.07	168.0	44.04
Pike	128	12,672	1.25	8.80	162.9	41.28
Virginia	103	13,041	1.35	8.63	165.7	43.23
Dickenson	103	13,041	1.35	8.63	165.7	43.23
South Carolina Electric&Gas Co Mcmeekin	**563**	**13,119**	**1.31**	**8.52**	**163.8**	**42.99**
Kentucky	148	12,662	1.13	8.97	167.6	42.43
Bell	14	12,852	.79	9.34	175.3	45.07
Leslie	50	12,749	1.21	8.93	175.4	44.73
Pike	83	12,578	1.14	8.93	161.4	40.61
Virginia	415	13,282	1.37	8.36	162.6	43.19
Dickenson	414	13,282	1.37	8.36	162.7	43.21
Wise	*	13,001	.82	10.00	98.3	25.56
South Carolina Electric&Gas Co Urguhart	**529**	**12,756**	**1.22**	**8.77**	**168.3**	**42.93**
Kentucky	467	12,681	1.23	8.92	168.6	42.77
Bell	7	13,203	.99	7.60	175.4	46.32
Leslie	239	12,702	1.29	9.14	175.2	44.50
Perry	15	12,869	.80	8.30	166.6	42.88
Pike	207	12,625	1.20	8.76	160.9	40.64
Virginia	62	13,325	1.16	7.62	165.6	44.12
Dickenson	62	13,325	1.16	7.62	165.6	44.12
South Carolina Electric&Gas Co Wateree	**1,773**	**12,769**	**1.14**	**8.66**	**166.0**	**42.40**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
South Carolina Electric&Gas Co Wateree						
Kentucky	1,163	12,704	1.04	8.86	168.5	42.82
Bell	159	12,761	.79	9.01	176.4	45.01
Harlan	518	12,672	1.15	9.06	166.2	42.12
Leslie	107	12,613	1.27	9.19	177.3	44.73
Letcher	13	13,054	.93	8.44	175.8	45.90
Perry	302	12,806	.86	8.33	166.4	42.62
Pike	64	12,417	1.21	8.88	162.0	40.24
Tennessee	212	12,613	1.47	8.39	163.5	41.25
Claiborne	212	12,613	1.47	8.39	163.5	41.25
Virginia	390	13,033	1.28	8.28	159.8	41.64
Dickenson	19	12,978	1.25	8.40	163.3	42.39
Wise	371	13,036	1.28	8.28	159.6	41.60
West Virginia	8	13,589	1.21	6.40	177.1	48.13
Mingo	8	13,589	1.21	6.40	177.1	48.13
South Carolina Electric&Gas Co Williams	**869**	**12,737**	**1.13**	**9.22**	**165.7**	**42.21**
Kentucky	869	12,737	1.13	9.22	165.7	42.21
Harlan	674	12,741	1.22	9.20	165.7	42.21
Perry	194	12,721	.84	9.31	165.8	42.19
South Carolina Pub Serv Auth Cross	**1,358**	**12,506**	**1.12**	**9.19**	**178.0**	**44.52**
Kentucky	1,358	12,506	1.12	9.19	178.0	44.52
Harlan	1,256	12,536	1.14	9.03	177.7	44.54
Laurel	18	12,093	1.14	11.54	182.0	44.02
Leslie	76	12,143	.94	11.10	186.9	45.39
Perry	8	12,205	.98	11.04	138.7	33.86
South Carolina Pub Serv Auth Grainger	**210**	**12,973**	**1.93**	**10.92**	**161.6**	**41.92**
Kentucky	204	12,979	1.95	10.95	161.5	41.92
Harlan	153	12,972	1.97	11.23	162.6	42.17
Letcher	8	12,431	1.78	11.96	159.6	39.68
Perry	6	11,996	1.03	11.09	156.7	37.60
Pike	36	13,308	2.03	9.50	158.2	42.12
Virginia	5	12,720	1.31	10.01	165.1	42.01
Dickenson	1	11,778	1.83	12.76	164.2	38.69
Wise	4	13,010	1.15	9.17	165.4	43.03
South Carolina Pub Serv Auth Jefferies	**671**	**12,196**	**1.60**	**10.78**	**181.3**	**44.23**
Kentucky	671	12,196	1.60	10.78	181.3	44.23
Harlan	158	12,328	1.37	10.20	171.9	42.38
Laurel	81	12,182	1.57	10.87	176.4	42.99
Leslie	432	12,150	1.69	10.97	185.8	45.14
South Carolina Pub Serv Auth Winyah	**2,129**	**12,559**	**1.06**	**9.31**	**179.0**	**44.95**
Kentucky	2,129	12,559	1.06	9.31	179.0	44.95
Bell	17	12,593	1.09	8.54	144.4	36.37
Harlan	1,920	12,582	1.06	9.20	179.1	45.08
Laurel	16	12,306	1.05	10.64	184.2	45.34
Leslie	143	12,300	1.20	10.55	188.4	46.34
Letcher	17	12,503	.96	10.54	148.8	37.20
Perry	16	12,290	1.04	10.54	139.5	34.30
South Mississippi EL Pwr Assn R D Morrow	**775**	**12,426**	**.97**	**9.01**	**203.5**	**50.57**
Kentucky	775	12,426	.97	9.01	203.5	50.57
Pike	775	12,426	.97	9.01	203.5	50.57
Southern California Edison Co Mohave	**4,171**	**10,959**	**.53**	**10.08**	**120.6**	**26.43**
Arizona	4,171	10,959	.53	10.08	120.6	26.43
Navajo	4,171	10,959	.53	10.08	120.6	26.43
Southern Illinois Power Coop Marion	**739**	**10,435**	**3.13**	**19.20**	**91.5**	**19.10**
Illinois	739	10,435	3.13	19.20	91.5	19.10
Gallatin	333	10,562	3.59	20.55	92.7	19.57
Jackson	29	10,835	3.66	16.54	100.7	21.83
Jefferson	30	8,385	1.81	25.84	52.8	8.85
Saline	2	9,292	1.65	16.80	60.0	11.15
Williamson	345	10,465	2.76	17.57	92.4	19.34
Southern Indiana Gas & Elec Co A B Brown	**1,188**	**11,543**	**3.38**	**8.16**	**149.1**	**34.43**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Southern Indiana Gas & Elec Co A B Brown						
Illinois	30	11,620	2.81	7.77	107.2	24.91
White	30	11,620	2.81	7.77	107.2	24.91
Indiana	1,158	11,541	3.40	8.17	150.2	34.68
Pike	1,158	11,541	3.40	8.17	150.2	34.68
Southern Indiana Gas & Elec Co Culley	**1,144**	**11,097**	**2.75**	**8.13**	**155.0**	**34.39**
Illinois	3	11,679	1.29	6.80	141.3	33.00
Wabash	3	11,679	1.29	6.80	141.3	33.00
Indiana	1,141	11,095	2.75	8.13	155.0	34.39
Greene	2	10,761	2.80	11.80	129.2	27.81
Warrick	1,139	11,096	2.75	8.13	155.0	34.40
Southern Indiana Gas & Elec Co Warrick	**297**	**11,046**	**2.87**	**8.79**	**115.8**	**25.59**
Indiana	297	11,046	2.87	8.79	115.8	25.59
Pike	46	10,757	1.33	8.34	137.3	29.54
Warrick	251	11,100	3.16	8.88	112.0	24.86
Southwestern Electric Power Co Flint Creek	**1,724**	**8,384**	**.33**	**4.78**	**152.3**	**25.53**
Wyoming	1,724	8,384	.33	4.78	152.3	25.53
Campbell	1,724	8,384	.33	4.78	152.3	25.53
Southwestern Electric Power Co Pirkey	**3,039**	**6,789**	**1.66**	**10.70**	**123.1**	**16.72**
Texas	3,039	6,789	1.66	10.70	123.1	16.72
Harrison	3,039	6,789	1.66	10.70	123.1	16.72
Southwestern Electric Power Co Welsh Station	**4,687**	**8,384**	**.33**	**4.76**	**206.8**	**34.67**
Wyoming	4,687	8,384	.33	4.76	206.8	34.67
Campbell	4,687	8,384	.33	4.76	206.8	34.67
Southwestern Public Service Co Harrington	**4,157**	**8,794**	**.38**	**5.23**	**155.6**	**27.36**
Wyoming	4,157	8,794	.38	5.23	155.6	27.36
Campbell	4,157	8,794	.38	5.23	155.6	27.36
Southwestern Public Service Co Tolk	**4,109**	**8,706**	**.37**	**5.09**	**188.0**	**32.74**
Wyoming	4,109	8,706	.37	5.09	188.0	32.74
Campbell	4,109	8,706	.37	5.09	188.0	32.74
Springfield City of (MO) James River	**419**	**11,651**	**2.03**	**7.69**	**131.5**	**30.65**
Illinois	419	11,651	2.03	7.69	131.5	30.65
Franklin	419	11,651	2.03	7.69	131.5	30.65
Springfield City of (MO) Southwest	**442**	**11,688**	**2.50**	**8.60**	**135.6**	**31.70**
Illinois	406	11,674	2.34	8.13	135.4	31.61
Franklin	406	11,674	2.34	8.13	135.4	31.61
Oklahoma	36	11,844	4.31	13.87	138.3	32.77
Craig	36	11,844	4.31	13.87	138.3	32.77
Springfield City of (IL) Dallman	**858**	**10,399**	**2.94**	**9.31**	**133.7**	**27.80**
Illinois	858	10,399	2.94	9.31	133.7	27.80
Logan	858	10,399	2.94	9.31	133.7	27.80
Springfield City of (IL) Lakeside	**64**	**10,387**	**2.96**	**9.46**	**134.6**	**27.95**
Illinois	64	10,387	2.96	9.46	134.6	27.95
Logan	64	10,387	2.96	9.46	134.6	27.95
St Joseph Light and Power Co Lakeroad	**172**	**11,622**	**3.25**	**12.09**	**133.0**	**30.92**
Illinois	24	10,643	3.49	8.59	129.5	27.56
Macoupin	24	10,643	3.49	8.59	129.5	27.56
Kansas	108	11,925	3.32	12.83	133.7	31.89
Crawford	108	11,925	3.32	12.83	133.7	31.89
Missouri	40	11,397	2.90	12.23	133.0	30.31
Vernon	40	11,397	2.90	12.23	133.0	30.31
Sunflower Electric Power Corp Holcomb Unit #1	**1,052**	**8,478**	**.33**	**4.95**	**97.3**	**16.50**
Wyoming	1,052	8,478	.33	4.95	97.3	16.50
Campbell	1,052	8,478	.33	4.95	97.3	16.50
Tampa Electric Co Big Bend	**6,093**	**12,217**	**2.31**	**7.88**	**176.2**	**43.05**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Tampa Electric Co Big Bend						
Illinois	1,109	11,029	2.90	8.86	187.0	41.24
Perry	1,109	11,029	2.90	8.86	187.0	41.24
Indiana	431	11,226	3.21	9.12	107.8	24.20
Pike	91	11,739	3.40	7.79	112.5	26.42
Spencer	341	11,090	3.15	9.47	106.5	23.61
Kentucky	3,902	12,490	2.14	7.63	177.2	44.26
Bell	8	12,866	1.11	6.20	205.1	52.78
Hopkins	371	12,050	2.56	7.01	129.7	31.26
Knott	293	12,729	1.30	7.63	171.1	43.56
Ohio	271	11,398	3.10	9.80	135.6	30.92
Union	1,090	12,403	2.82	8.59	156.3	38.78
Webster	572	12,562	2.88	8.43	155.5	39.07
Whitley	1,298	12,830	1.12	6.20	225.1	57.77
Tennessee	126	12,780	1.11	6.60	215.2	55.00
Campbell	126	12,780	1.11	6.60	215.2	55.00
Virginia	90	14,040	.83	4.57	161.4	45.32
Buchanan	90	14,040	.83	4.57	161.4	45.32
West Virginia	435	13,239	2.08	7.40	194.7	51.54
Monongalia	435	13,239	2.08	7.40	194.7	51.54
Tampa Electric Co Gannon	**557**	**12,804**	**1.13**	**6.61**	**232.9**	**59.64**
Kentucky	557	12,804	1.13	6.61	232.9	59.64
Whitley	557	12,804	1.13	6.61	232.9	59.64
Tennessee Valley Authority Allen	**1,541**	**11,827**	**2.03**	**8.07**	**118.3**	**27.99**
Illinois	337	11,789	1.97	8.62	115.0	27.11
Gallatin	242	11,874	1.95	8.92	115.0	27.32
Saline	95	11,574	2.04	7.87	114.8	26.57
Kentucky	1,203	11,838	2.05	7.92	119.3	28.24
Butler	419	11,752	2.06	7.71	115.7	27.20
Daviess	145	11,308	1.78	7.71	122.1	27.62
Webster	268	12,584	2.20	8.53	128.0	32.22
Unknown	372	11,601	2.03	7.80	115.4	26.78
Tennessee Valley Authority Bull Run	**2,467**	**11,683**	**.98**	**13.04**	**199.1**	**46.52**
Kentucky	2,467	11,683	.98	13.04	199.1	46.52
Bell	162	12,711	1.15	8.66	119.8	30.47
Breathitt	2,148	11,527	.95	13.68	212.1	48.90
Harlan	157	12,757	1.20	8.83	119.8	30.57
Tennessee Valley Authority Colbert	**2,014**	**11,735**	**1.63**	**10.64**	**122.3**	**28.70**
Illinois	299	11,404	2.02	8.06	115.1	26.26
Franklin	170	11,414	1.95	8.19	120.7	27.55
Saline	129	11,391	2.12	7.90	107.8	24.57
Indiana	345	11,336	2.00	8.01	120.4	27.30
Unknown	345	11,336	2.00	8.01	120.4	27.30
Kentucky	266	11,979	1.07	9.50	135.7	32.52
Johnson	204	12,103	1.18	8.80	136.1	32.94
Magoffin	62	11,574	.72	11.80	134.4	31.12
Ohio	583	11,559	2.20	12.22	116.9	27.02
Belmont	583	11,559	2.20	12.22	116.9	27.02
Tennessee	457	12,335	.83	12.57	125.0	30.85
Grundy	37	11,893	.93	13.05	125.1	29.76
Marion	4	12,346	.70	12.50	124.5	30.74
Sequatchie	262	12,466	.79	12.72	124.8	31.11
Unknown	154	12,218	.87	12.21	125.5	30.67
West Virginia	65	11,710	.82	13.21	135.5	31.73
Kanawha	65	11,710	.82	13.21	135.5	31.73
Tennessee Valley Authority Cumberland	**6,345**	**11,523**	**2.72**	**8.34**	**130.0**	**29.96**
Illinois	622	11,571	2.44	8.16	117.9	27.28
Franklin	622	11,571	2.44	8.16	117.9	27.28
Indiana	405	11,520	2.23	7.87	118.0	27.19
Unknown	405	11,520	2.23	7.87	118.0	27.19
Kentucky	5,318	11,518	2.79	8.40	132.4	30.49
Hopkins	9	11,635	2.80	11.07	117.6	27.37
Union	5,274	11,518	2.79	8.39	132.5	30.52
Unknown	36	11,393	2.30	9.40	120.6	27.48

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Tennessee Valley Authority Gallatin	**2,605**	**12,151**	**2.75**	**9.42**	**121.3**	**29.48**
Illinois	299	11,715	2.78	7.67	118.0	27.66
White	299	11,715	2.78	7.67	118.0	27.66
Kentucky	2,306	12,207	2.74	9.64	121.7	29.72
Hopkins	533	11,696	2.75	10.60	119.6	27.98
Union	9	11,811	2.70	8.70	137.5	32.48
Webster	1,106	12,511	2.87	8.77	122.2	30.58
Unknown	658	12,117	2.52	10.34	122.3	29.63
Tennessee Valley Authority Johnsonville	**2,575**	**11,675**	**1.68**	**9.38**	**129.5**	**30.25**
Illinois	923	11,623	1.69	8.38	127.3	29.59
Franklin	800	11,604	1.66	8.35	128.8	29.90
Gallatin	56	11,951	1.90	9.30	130.9	31.29
Saline	67	11,569	1.80	7.97	106.0	24.53
Indiana	299	11,537	1.73	8.32	129.1	29.79
Unknown	299	11,537	1.73	8.32	129.1	29.79
Kentucky	1,343	11,736	1.66	10.30	131.0	30.74
Floyd	311	11,606	1.60	10.00	132.1	30.66
Johnson	32	12,138	1.20	9.10	130.9	31.78
Webster	259	12,252	1.76	9.95	125.3	30.70
Unknown	741	11,594	1.68	10.61	132.6	30.74
West Virginia	10	12,319	.70	9.10	157.8	38.88
Logan	10	12,319	.70	9.10	157.8	38.88
Tennessee Valley Authority Kingston	**3,851**	**12,559**	**1.31**	**9.39**	**123.6**	**31.05**
Kentucky	2,465	12,536	1.27	9.23	124.9	31.33
Bell	1,584	12,602	1.35	8.84	123.9	31.23
Harlan	560	12,543	1.14	9.38	129.3	32.43
Knox	9	11,292	1.05	13.20	107.7	24.33
Owsley	14	11,438	1.45	12.50	124.8	28.55
Perry	225	12,106	1.00	11.43	121.3	29.38
Whitley	21	12,806	1.60	7.69	126.3	32.34
Unknown	52	12,701	1.20	8.84	128.0	32.51
Tennessee	1,386	12,600	1.39	9.67	121.3	30.55
Anderson	345	12,671	1.56	9.14	123.9	31.41
Campbell	529	12,568	1.21	10.02	120.8	30.36
Claiborne	53	12,580	1.42	8.13	124.6	31.36
Morgan	26	13,275	1.42	7.68	118.0	31.32
Scott	132	13,108	1.63	7.44	117.0	30.68
Unknown	302	12,299	1.38	11.07	120.6	29.66
Tennessee Valley Authority Paradise	**7,181**	**10,894**	**4.31**	**16.59**	**104.2**	**22.71**
Illinois	80	11,550	1.70	8.50	137.2	31.70
Franklin	15	11,550	1.70	8.50	129.7	29.96
Unknown	65	11,550	1.70	8.50	139.0	32.11
Kentucky	6,839	10,926	4.49	17.11	102.8	22.46
Hopkins	369	11,322	4.32	10.75	97.8	22.15
Muhlenberg	3,673	10,424	4.49	18.39	99.1	20.66
Union	740	11,545	4.53	16.61	109.8	25.35
Webster	999	11,400	4.43	16.49	109.8	25.03
Unknown	1,059	11,651	4.60	15.81	104.7	24.40
Virginia	60	13,986	.81	5.53	158.3	44.29
Buchanan	60	13,986	.81	5.53	158.3	44.29
Wyoming	202	8,618	.35	5.37	122.5	21.11
Campbell	202	8,618	.35	5.37	122.5	21.11
Tennessee Valley Authority Sevier	**2,062**	**12,799**	**1.72**	**9.93**	**126.3**	**32.33**
Kentucky	805	12,425	1.60	11.85	118.7	29.49
Bell	17	12,528	1.39	10.27	134.3	33.65
Harlan	437	12,468	1.88	11.88	117.4	29.27
Letcher	348	12,363	1.27	11.92	119.4	29.53
Whitley	2	13,089	1.89	6.72	141.6	37.06
Tennessee	35	12,234	2.00	13.02	121.2	29.65
Fentress	25	11,856	1.90	14.70	118.7	28.15
Scott	1	13,206	1.70	7.20	89.6	23.67
Unknown	9	13,150	2.30	9.10	130.0	34.19
Virginia	1,223	13,060	1.79	8.58	131.2	34.27
Lee	111	12,873	1.56	8.52	122.0	31.40
Wise	1,111	13,079	1.81	8.59	132.1	34.56

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Tennessee Valley Authority Shawnee	**2,810**	**11,961**	**1.24**	**10.42**	**129.7**	**31.03**
Kentucky	1,713	11,851	1.61	10.61	123.7	29.32
Floyd	590	12,117	.60	10.06	134.3	32.55
Harlan	71	12,363	.52	9.42	135.2	33.43
Johnson	5	12,159	.60	8.00	134.6	32.73
Letcher	35	12,447	.55	8.40	130.5	32.48
Martin	3	11,208	.60	14.30	119.0	26.68
Ohio	214	11,092	3.86	12.30	88.9	19.73
Pike	150	12,323	.60	9.63	135.0	33.28
Webster	90	11,556	4.33	11.04	109.3	25.27
Unknown	554	11,680	1.85	11.02	121.8	28.44
West Virginia	1,097	12,132	.67	10.12	138.9	33.70
Kanawha	100	12,136	.60	11.66	125.1	30.36
Logan	605	12,158	.68	9.55	144.1	35.05
Nicholas	98	12,177	.68	10.90	138.8	33.80
Unknown	294	12,060	.67	10.52	132.9	32.05
Tennessee Valley Authority Widows Creek	**3,425**	**12,098**	**2.32**	**9.50**	**129.4**	**31.31**
Alabama	3	12,231	4.00	12.40	108.4	26.52
Blount	3	12,231	4.00	12.40	108.4	26.52
Illinois	164	11,632	2.76	7.80	108.5	25.24
White	164	11,632	2.76	7.80	108.5	25.24
Indiana	115	11,588	3.35	8.08	106.8	24.75
Pike	115	11,588	3.35	8.08	106.8	24.75
Kentucky	2,767	12,120	2.43	9.32	132.4	32.08
Daviess	154	11,257	3.33	9.31	114.6	25.81
Harlan	355	12,913	.92	7.47	146.5	37.83
Hopkins	232	11,882	3.53	10.18	124.4	29.56
Ohio	6	11,345	3.00	9.80	102.9	23.35
Perry	445	12,814	.83	8.71	138.1	35.40
Union	555	11,854	2.62	7.48	139.3	33.02
Webster	433	11,763	3.45	11.43	125.3	29.47
Unknown	585	11,956	2.96	10.76	124.9	29.86
Ohio	25	12,602	4.20	9.50	114.1	28.75
Belmont	25	12,602	4.20	9.50	114.1	28.75
Tennessee	351	12,279	.78	12.14	123.8	30.40
Grundy	3	12,417	.80	10.90	119.8	29.75
Marion	23	12,183	.70	12.80	122.3	29.80
Sequatchie	325	12,284	.79	12.10	123.9	30.45
Texas Municipal Power Agency Gibbons Creek	**3,623**	**4,740**	**1.40**	**26.34**	**150.5**	**14.26**
Texas	3,623	4,740	1.40	26.34	150.5	14.26
Grimes	3,548	4,693	1.41	26.62	151.2	14.19
Robertson	75	6,995	1.06	13.23	127.2	17.80
Texas New Mexico Power Co TNP 1	**565**	**6,821**	**1.02**	**15.21**	**134.8**	**18.39**
Texas	565	6,821	1.02	15.21	134.8	18.39
Robertson	565	6,821	1.02	15.21	134.8	18.39
Texas Utilities Electric Co Big Brown	**5,329**	**6,811**	**.72**	**14.22**	**93.4**	**12.72**
Texas	5,329	6,811	.72	14.22	93.4	12.72
Freestone	5,329	6,811	.72	14.22	93.4	12.72
Texas Utilities Electric Co Martin Lake	**13,150**	**6,761**	**1.12**	**13.11**	**98.2**	**13.27**
Texas	13,150	6,761	1.12	13.11	98.2	13.27
Panola	11,978	6,763	1.12	13.16	97.1	13.13
Rusk	1,172	6,736	1.07	12.60	109.1	14.70
Texas Utilities Electric Co Monticello	**12,112**	**6,034**	**.50**	**17.58**	**92.0**	**11.10**
Texas	12,112	6,034	.50	17.58	92.0	11.10
Titus	12,112	6,034	.50	17.58	92.0	11.10
Texas Utilities Electric Co Sandow No 4	**653**	**6,408**	**1.12**	**19.93**	**80.1**	**10.26**
Texas	653	6,408	1.12	19.93	80.1	10.26
Milam	653	6,408	1.12	19.93	80.1	10.26
Toledo Edison Co Acme	**126**	**13,055**	**.73**	**7.57**	**167.6**	**43.76**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company / Plant / Origin State / County	Quantity (thousand short tons)	Average Quality: Btu (per pound)	Average Quality: Sulfur (percent by weight)	Average Quality: Ash (percent by weight)	Average Delivered Cost: (cents per million Btu)	Average Delivered Cost: (dollars per short ton)
Toledo Edison Co — Acme						
West Virginia	126	13,055	0.73	7.57	167.6	43.76
Mingo	126	13,055	.73	7.57	167.6	43.76
Toledo Edison Co — Bay Shore	**1,183**	**13,114**	**1.24**	**6.81**	**198.3**	**52.00**
Kentucky	398	13,307	1.38	6.02	205.0	54.57
Pike	398	13,307	1.38	6.02	205.0	54.57
West Virginia	785	13,016	1.17	7.21	194.7	50.70
Mingo	785	13,016	1.17	7.21	194.7	50.70
Tucson Electric Power Co — Irvington	**167**	**10,192**	**.49**	**13.03**	**283.0**	**57.69**
New Mexico	167	10,192	.49	13.03	283.0	57.69
Mckinley	167	10,192	.49	13.03	283.0	57.69
Union Electric Co — Labadie	**5,118**	**11,188**	**2.50**	**9.48**	**140.4**	**31.42**
Colorado	292	11,750	.47	9.60	159.7	37.52
Gunnison	292	11,750	.47	9.60	159.7	37.52
Illinois	4,589	11,281	2.74	9.68	140.6	31.72
Jackson	61	10,600	1.61	11.24	140.3	29.75
Jefferson	912	11,800	1.30	7.30	212.5	50.16
Perry	3,498	11,158	3.15	10.30	119.9	26.76
Randolph	73	11,000	3.00	9.70	111.5	24.54
Saline	45	11,700	1.28	7.10	247.5	57.91
Wyoming	237	8,690	.46	5.65	103.7	18.02
Campbell	174	8,650	.52	5.70	101.4	17.53
Converse	63	8,800	.30	5.50	110.0	19.36
Union Electric Co — Meramec	**633**	**11,765**	**1.28**	**7.68**	**201.4**	**47.39**
Illinois	633	11,765	1.28	7.68	201.4	47.39
Jefferson	71	11,589	1.26	12.00	135.2	31.33
Saline	562	11,787	1.28	7.13	209.7	49.42
Union Electric Co — Rush Island	**2,369**	**9,990**	**.87**	**7.65**	**148.8**	**29.74**
Illinois	1,215	11,363	1.20	9.41	181.3	41.20
Jackson	323	10,600	1.00	11.40	161.7	34.29
Jefferson	326	11,534	1.27	11.47	141.0	32.52
Saline	566	11,700	1.28	7.10	214.3	50.14
Wyoming	1,154	8,544	.51	5.79	103.4	17.67
Campbell	1,154	8,544	.51	5.79	103.4	17.67
Union Electric Co — Sioux	**2,102**	**10,656**	**1.84**	**7.43**	**164.8**	**35.12**
Illinois	1,462	11,600	2.40	8.00	182.9	42.43
Saline	1,462	11,600	2.40	8.00	182.9	42.43
Ohio	24	11,900	2.50	12.50	171.4	40.79
Harrison	24	11,900	2.50	12.50	171.4	40.79
Wyoming	616	8,368	.50	5.89	104.8	17.54
Campbell	616	8,368	.50	5.89	104.8	17.54
United Illuminating Co — Bridgeport Harbor	**954**	**13,233**	**.54**	**6.36**	**212.9**	**56.35**
Kentucky	954	13,233	.54	6.36	212.9	56.35
Pike	954	13,233	.54	6.36	212.9	56.35
United Power Assn — Stanton	**1,085**	**6,881**	**.94**	**8.64**	**100.7**	**13.86**
North Dakota	1,085	6,881	.94	8.64	100.7	13.86
Mercer	1,085	6,881	.94	8.64	100.7	13.86
Vineland City of — H M Down	**10**	**12,892**	**.70**	**7.16**	**215.1**	**55.46**
West Virginia	10	12,892	.70	7.16	215.1	55.46
Nicholas	10	12,892	.70	7.16	215.1	55.46
Virginia Electric & Power Co — Bremo Bluff	**285**	**12,630**	**.90**	**10.27**	**150.0**	**37.90**
Kentucky	113	12,842	1.02	9.87	151.9	39.02
Breathitt	7	12,380	1.11	9.10	155.9	38.60
Floyd	*	12,500	.90	8.00	152.7	38.17
Pike	106	12,873	1.01	9.92	151.7	39.05
West Virginia	172	12,490	.82	10.53	148.8	37.16
Boone	86	12,493	.90	10.56	152.9	38.20
Logan	86	12,488	.75	10.50	144.7	36.13
Virginia Electric & Power Co — Chesterfield	**2,805**	**12,719**	**1.04**	**8.77**	**152.4**	**38.76**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Virginia Electric & Power Co Chesterfield						
Kentucky	1,727	12,656	1.08	8.57	152.7	38.66
Bell	27	12,381	1.20	9.60	167.1	41.37
Breathitt	272	12,541	1.03	7.75	149.3	37.46
Floyd	264	12,566	1.09	8.33	148.0	37.20
Harlan	59	12,689	1.15	8.66	153.1	38.86
Knott	28	12,196	.76	10.26	164.4	40.09
Letcher	8	12,422	.89	8.52	169.2	42.04
Perry	88	12,705	.86	8.78	150.2	38.16
Pike	981	12,729	1.12	8.76	154.3	39.28
Virginia	267	13,283	.93	7.20	157.1	41.72
Buchanan	30	12,846	1.17	10.26	151.5	38.94
Dickenson	225	13,381	.87	6.67	157.2	42.08
Lee	13	12,584	1.32	9.34	166.6	41.94
West Virginia	811	12,669	.97	9.71	149.9	37.99
Boone	533	12,681	.99	9.83	151.9	38.51
Logan	272	12,648	.94	9.48	145.9	36.90
Mingo	7	12,500	.90	9.00	162.2	40.55
Virginia Electric & Power Co Mount Storm	**4,247**	**12,311**	**1.77**	**14.13**	**145.7**	**35.87**
Maryland	702	11,968	1.78	16.49	114.7	27.45
Allegany	486	11,720	1.81	17.59	115.9	27.16
Garrett	215	12,528	1.71	14.02	112.1	28.10
Pennsylvania	18	11,543	1.84	16.42	123.6	28.53
Somerset	18	11,543	1.84	16.42	123.6	28.53
West Virginia	3,527	12,383	1.77	13.65	151.8	37.59
Grant	3,076	12,472	1.76	13.19	156.4	39.01
Mineral	99	11,778	1.69	15.45	113.3	26.69
Preston	58	12,016	1.89	14.96	126.3	30.36
Randolph	292	11,725	1.82	17.61	118.6	27.82
Upshur	1	11,500	1.50	17.00	111.4	25.62
Virginia Electric & Power Co Chesapeake Energy	**1,198**	**12,939**	**1.12**	**9.27**	**150.2**	**38.86**
Kentucky	10	13,124	.71	7.10	157.9	41.44
Pike	10	13,124	.71	7.10	157.9	41.44
Virginia	744	13,081	1.25	8.71	149.6	39.15
Buchanan	402	13,047	1.34	8.74	148.2	38.67
Lee	17	12,624	1.19	7.97	168.0	42.42
Russell	14	13,070	.82	11.39	141.2	36.91
Wise	311	13,150	1.16	8.59	150.9	39.68
West Virginia	444	12,696	.91	10.24	151.0	38.33
Fayette	2	13,405	1.01	6.90	165.3	44.32
Logan	7	12,483	.72	11.10	164.6	41.09
Mingo	435	12,697	.92	10.24	150.7	38.26
Virginia Electric & Power Co Possum Point	**581**	**12,604**	**.97**	**9.16**	**154.8**	**39.03**
Kentucky	293	12,556	1.06	8.73	158.1	39.69
Breathitt	7	12,528	.95	8.00	155.6	38.99
Floyd	28	12,468	1.14	9.19	151.9	37.87
Pike	258	12,566	1.05	8.70	158.8	39.90
Virginia	19	12,678	1.25	11.76	151.6	38.45
Buchanan	19	12,678	1.25	11.76	151.6	38.45
West Virginia	269	12,652	.86	9.44	151.6	38.35
Boone	100	12,717	.94	9.01	153.1	38.95
Logan	82	12,690	.75	8.94	146.3	37.13
Mingo	88	12,541	.86	10.41	154.8	38.82
Virginia Electric & Power Co Yorktown	**529**	**13,017**	**1.32**	**8.23**	**152.3**	**39.65**
Kentucky	221	12,897	1.29	7.81	154.7	39.91
Breathitt	7	12,212	.95	8.20	155.5	37.99
Floyd	20	12,342	.95	9.06	151.9	37.49
Pike	195	12,976	1.34	7.67	155.0	40.22
Virginia	27	12,883	1.23	9.64	150.9	38.88
Buchanan	19	13,027	1.29	9.20	151.8	39.55
Dickenson	8	12,533	1.08	10.70	148.6	37.25
West Virginia	281	13,124	1.35	8.42	150.6	39.52
Boone	259	13,101	1.27	8.49	149.2	39.09
Marion	21	13,400	2.30	7.50	166.8	44.71
West Penn Power Co Armstrong	**905**	**12,342**	**1.61**	**11.48**	**125.7**	**31.03**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
West Penn Power Co Armstrong						
Pennsylvania	905	12,342	1.81	11.48	125.7	31.03
Armstrong	309	12,292	1.92	11.58	117.5	28.88
Butler	66	11,945	2.04	12.57	111.7	26.69
Jefferson	529	12,420	1.71	11.28	132.2	32.83
West Penn Power Co Hatfield	**3,719**	**12,878**	**2.19**	**9.47**	**145.3**	**37.42**
Pennsylvania	104	13,204	1.70	7.21	149.5	39.49
Greene	104	13,204	1.70	7.21	149.5	39.49
West Virginia	3,615	12,869	2.21	9.54	145.2	37.36
Marion	5	13,339	1.81	8.90	149.9	39.99
Monongalia	3,611	12,869	2.21	9.54	145.1	37.36
West Penn Power Co Mitchell	**623**	**12,324**	**2.64**	**12.30**	**126.5**	**31.19**
West Virginia	623	12,324	2.64	12.30	126.5	31.19
Marion	9	11,949	3.43	12.38	101.1	24.17
Monongalia	605	12,331	2.63	12.30	127.2	31.38
Preston	8	12,254	2.65	12.04	101.4	24.85
West Texas Utilities Co Oklaunion	**2,595**	**8,333**	**.34**	**4.82**	**168.7**	**28.12**
Wyoming	2,595	8,333	.34	4.82	168.7	28.12
Campbell	2,595	8,333	.34	4.82	168.7	28.12
Western Farmers Elec Coop Inc Hugo	**1,146**	**8,611**	**.45**	**5.45**	**198.4**	**34.17**
Oklahoma	65	12,861	.55	7.61	173.0	44.50
Muskogee	12	13,717	.37	6.84	173.0	47.46
Rogers	54	12,672	.60	7.78	173.0	43.85
Wyoming	1,080	8,353	.44	5.32	200.8	33.55
Campbell	1,080	8,353	.44	5.32	200.8	33.55
Wisconsin Electric Power Co Oak Creek	**1,759**	**12,827**	**1.68**	**7.13**	**152.0**	**38.99**
Illinois	513	11,781	1.64	7.35	150.6	35.49
Franklin	513	11,781	1.64	7.35	150.6	35.49
New Mexico	21	12,532	.51	11.25	172.7	43.29
Colfax	21	12,532	.51	11.25	172.7	43.29
Pennsylvania	1,224	13,270	1.73	6.97	152.1	40.38
Greene	1,224	13,270	1.73	6.97	152.1	40.38
Wisconsin Electric Power Co Pleasant Prairie	**4,560**	**8,483**	**.36**	**5.08**	**95.5**	**16.21**
Wyoming	4,560	8,483	.36	5.08	95.5	16.21
Campbell	4,560	8,483	.36	5.08	95.5	16.21
Wisconsin Electric Power Co Port Washington	**139**	**13,094**	**1.67**	**6.54**	**165.1**	**43.23**
Pennsylvania	139	13,094	1.67	6.54	165.1	43.23
Greene	139	13,094	1.67	6.54	165.1	43.23
Wisconsin Electric Power Co Presque Isle	**1,412**	**10,440**	**.65**	**7.52**	**168.3**	**35.14**
Kentucky	81	12,881	.84	8.22	160.3	41.29
Pike	81	12,881	.84	8.22	160.3	41.29
Montana	862	8,889	.53	7.03	177.4	31.55
Big Horn	647	8,889	.53	7.03	178.6	31.75
Rosebud	216	8,889	.53	7.03	174.0	30.93
West Virginia	469	12,870	.85	8.30	158.1	40.70
Mingo	469	12,870	.85	8.30	158.1	40.70
Wisconsin Electric Power Co Valley	**397**	**13,237**	**1.66**	**6.78**	**168.1**	**44.51**
Pennsylvania	397	13,237	1.66	6.78	168.1	44.51
Greene	397	13,237	1.66	6.78	168.1	44.51
Wisconsin Power & Light Co Columbia	**3,591**	**8,645**	**.50**	**7.02**	**130.4**	**22.55**
Montana	1,562	8,719	.70	8.95	168.3	29.35
Rosebud	1,562	8,719	.70	8.95	168.3	29.35
Wyoming	2,029	8,588	.34	5.54	100.9	17.33
Campbell	1,189	8,452	.36	5.56	100.1	16.92
Converse	841	8,781	.32	5.52	101.9	17.90
Wisconsin Power & Light Co Edgewater	**2,188**	**9,754**	**1.05**	**6.72**	**146.8**	**28.63**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Origin of Coal Received by Company and Plant, 1990 (Continued)

Company Plant Origin State County	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Wisconsin Power & Light Co Edgewater						
Illinois	10	12,271	0.98	4.84	162.4	39.86
Jefferson	10	12,271	.98	4.84	162.4	39.86
Indiana	806	11,217	2.22	9.37	183.3	41.11
Daviess	806	11,217	2.22	9.37	183.3	41.11
Virginia	21	13,931	.79	4.94	186.5	51.96
Buchanan	21	13,931	.79	4.94	186.5	51.96
Wyoming	1,350	8,797	.35	5.18	117.8	20.73
Campbell	1,105	8,800	.36	5.12	120.2	21.16
Converse	246	8,783	.33	5.46	107.1	18.82
Wisconsin Power & Light Co Nelson Dewey	**519**	**10,062**	**.48**	**4.60**	**130.6**	**26.28**
Illinois	9	12,207	1.01	5.06	139.7	34.11
Jefferson	9	12,207	1.01	5.06	139.7	34.11
Indiana	50	11,540	1.52	5.97	139.5	32.19
Spencer	50	11,540	1.52	5.97	139.5	32.19
Montana	388	9,406	.31	4.00	122.0	22.94
Big Horn	388	9,406	.31	4.00	122.0	22.94
New Mexico	22	12,877	.47	8.99	175.4	45.19
Colfax	22	12,877	.47	8.99	175.4	45.19
Virginia	28	13,963	.77	4.85	160.5	44.82
Buchanan	28	13,963	.77	4.85	160.5	44.82
Wyoming	21	9,520	.35	7.19	134.9	25.68
Carbon	10	10,390	.37	8.93	147.0	30.55
Converse	11	8,754	.33	5.66	122.2	21.39
Wisconsin Power & Light Co Rock River	**251**	**11,120**	**1.86**	**8.30**	**188.4**	**41.90**
Indiana	208	11,265	2.15	9.17	194.1	43.73
Daviess	192	11,226	2.21	9.44	197.1	44.25
Spencer	17	11,715	1.46	6.03	161.2	37.76
Montana	33	9,342	.32	3.80	147.6	27.58
Big Horn	33	9,342	.32	3.80	147.6	27.58
Virginia	9	14,196	.86	4.80	182.5	51.82
Buchanan	9	14,196	.86	4.80	182.5	51.82
Wisconsin Public Service Corp Pulliam	**659**	**11,340**	**2.00**	**9.20**	**195.7**	**44.38**
Indiana	561	11,087	2.09	9.39	202.6	44.93
Daviess	561	11,087	2.09	9.39	202.6	44.93
Kentucky	34	12,661	.65	10.15	175.7	44.49
Pike	34	12,661	.65	10.15	175.7	44.49
West Virginia	56	13,429	2.18	7.35	154.9	41.60
Marion	36	13,500	2.17	7.70	154.9	41.82
Monongalia	20	13,302	2.20	6.71	154.9	41.21
Wyoming	8	8,820	.36	5.20	140.7	24.82
Campbell	8	8,820	.36	5.20	140.7	24.82
Wisconsin Public Service Corp Weston	**1,484**	**9,347**	**.50**	**5.64**	**154.9**	**28.95**
Indiana	268	11,258	.93	7.82	213.4	48.04
Daviess	268	11,258	.93	7.82	213.4	48.04
West Virginia	39	13,242	1.69	7.94	179.5	47.54
Boone	14	12,917	.78	8.55	184.7	47.71
Marion	17	13,486	2.28	7.59	176.7	47.66
Monongalia	8	13,290	2.00	7.60	176.7	46.97
Wyoming	1,177	8,782	.36	5.07	136.6	23.99
Campbell	1,177	8,782	.36	5.07	136.6	23.99
Wyandotte Municipal Serv Comm Wyandotte	**139**	**13,179**	**.73**	**7.32**	**190.0**	**50.08**
West Virginia	139	13,179	.73	7.32	190.0	50.08
Boone	139	13,179	.73	7.32	190.0	50.08
Total	**786,627**	**10,465**	**1.35**	**9.85**	**145.5**	**30.45**

* = Number less than 0.5.

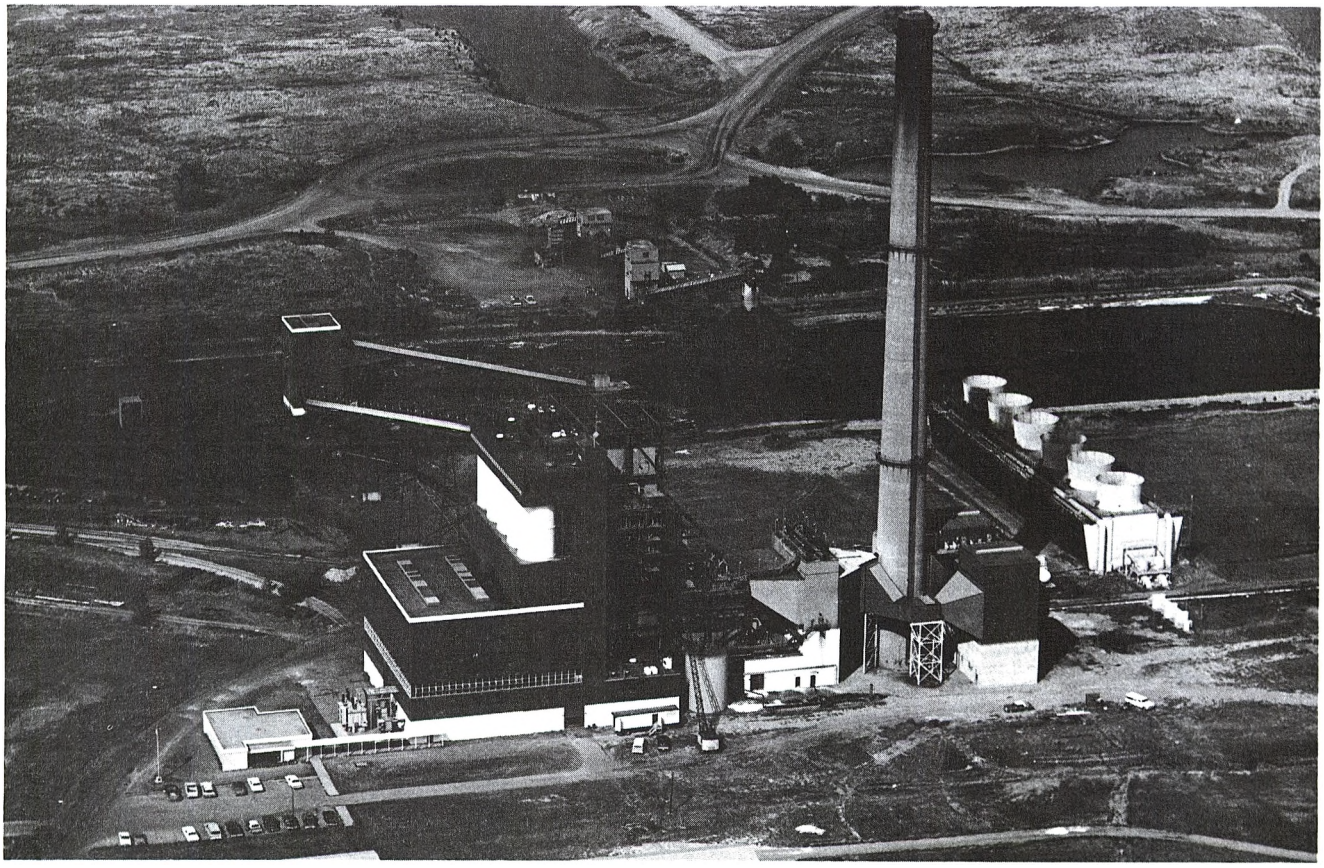
Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Fossil-Fuel Data at the Electric Plant and Utility Level

This chapter provides 1990 data on the quantity, quality, and cost of fossil fuels received at the plant and company level (Table 43). The fuels received by these plants are described by amount (thousand short tons, thousand barrels, or thousand cubic feet) and cost (cents per million Btu and dollars per short ton, barrel, or thousand cubic feet). The costs reported by electric utilities include all costs incurred by the utility (including transportation, taxes, etc.) for delivery of fuel to the electric plant. In addition, coal and petroleum are described by their quality, referring to the average percentage of sulfur content.

This chapter also includes a 5-year profile (1986-1990) of data on the quantity, quality, and cost of fossil fuels received at the company level (Table 44). In some cases, electric utilities may not have reported for all years, due to either retirements or derating of their units below the minimum threshold of 50 or more megawatts of steam-electric capacity. Due to a change in ownership, plant operator, or merger, data for some electric utilities may be shown under more than one utility name. Data for the City of Henderson are shown under Big Rivers Corporation for 1987 through 1990. Beginning in 1987, Eastern Iowa Light & Power Cooperative data are shown under Central Iowa Power Cooperative and Narragansett Electric Company data are shown under New England Power Company. As of 1988, data for the Commonwealth Edison Company of Indiana are shown under the Commonwealth Edison Company, and data for the Upper Peninsula Generating Company are shown under the Wisconsin Electric Power Company. As of 1989, data for the Utah Power & Light Company are shown under PacifiCorp.



In 1990, the Asbury Plant (Empire District Electric Company) received 677 thousand short tons of coal from Kansas and Wyoming.

Top Companies, Ranked by Receipts

Coal

For the fifth consecutive year, the Tennessee Valley Authority (TVA) reported the highest quantity of coal receipts of any electric utility in the Nation. The TVA, which operates coal-fired plants in Alabama, Kentucky, and Tennessee, received 36.9 million short tons of coal in 1990 (Table 37). This is the largest annual amount of coal that the TVA has received since 1979, when the TVA reported coal receipts of 41.3 million short tons.

The Texas Utilities Electric Company (TU) reported the second highest total of coal receipts, with 31.2 million short tons of lignite delivered to four generating plants in Texas. Since the Btu content of lignite is approximately half that of bituminous coal, the amount of electricity that the company generated is equivalent to the generation produced from 15 to 20 million short tons of bituminous coal. In 1990, the electricity generated from coal-fired plants at TU was slightly less than half that at the TVA.

PacifiCorp ranked third in total coal receipts, with 29.0 million short tons received in 1990. PacifiCorp (formed by the merger of the Pacific Power & Light Company and the Utah Power & Light Company) operates coal-fired plants in Utah, Washington, and Wyoming. PacifiCorp's plants in Utah receive mostly in-State high-Btu bituminous coal, while its Wyoming plants primarily receive subbituminous coal from Wyoming. The Georgia Power Company and the Detroit Edison Company ranked fourth and fifth, respectively, in total coal receipts.

Petroleum

Electric utilities located in Florida and New York led the list of the top 20 companies, ranked by total receipts of petroleum (Table 38). Number 6 fuel oil is the primary grade of petroleum consumed in large quantities by these electric utilities. The Florida Power & Light Company (FP&L) reported the highest total receipts of petroleum, 29.8 million barrels in 1990. This is the highest total the FP&L has reported since 1983. Most of the increase in 1990 from 1989 (4.4 million barrels) was used to replenish stocks of petroleum.

The Consolidated Edison Company of New York (ConEd) ranked second in total petroleum receipts, with 19.0 million barrels received in 1990. This is a decrease of 5 million barrels from 1989 and reverses an upward trend in petroleum receipts at the company that began in 1986. The Long Island Lighting Company (LILCO) ranked third in total petroleum receipts at 16.2 million barrels, its lowest total since 1986. Generation of electricity from gas by the company was substantially higher in 1990 than in prior years, thereby allowing reduced petroleum consumption and receipts.

With petroleum receipts of 10.8 million barrels in 1990, the Niagara Mohawk Power Company ranked fourth among the electric utilities receiving petroleum in the Nation. This is the largest amount of petroleum the company has reported receiving since 1977. An increase in both petroleum-fired generation and end-of-year stocks in 1990 contributed to the record-level petroleum receipts. The Hawaiian Electric Company (HEC) ranked fifth, receiving 10.6 million barrels of petroleum. This is the highest total for petroleum receipts that the company has reported and continues a general upward trend in receipts of petroleum that has been occurring at the HEC since 1982. Petroleum is the only fossil fuel used by the HEC to generate electricity.

Gas

The top 20 electric utilities in 1990, ranked according to receipts of gas, show TU first in receipts of gas, with a level of 339.8 billion cubic feet (Table 39). This level is 13 billion cubic feet less than the total received in 1989, and continues a trend of lower receipts of gas each year since 1985.

The Houston Lighting & Power Company (HL&P) ranked second in receipts of gas with 235.2 billion cubic feet, an increase of 13 billion cubic feet from 1989. The completion of the lignite-fired Limestone Plant and the South Texas Nuclear Facility has enabled the company to substantially reduce its use of gas in the past several years. In 1990, gas-fired generation accounted for 40 percent of total generation at the HL&P Company (down from 71 percent in 1984); coal, 39 percent; and nuclear, 20 percent. The Pacific Gas & Electric Company (PG&E) ranked third in receipts of gas (229.8 billion cubic feet), relying on gas for approximately 48 percent of its generation in 1990.

The Gulf States Utilities Company (GSU) received 176.1 billion cubic feet of gas, the fourth highest total for 1990 and the highest total for GSU since 1984. The Southern California Edison Company (SCE) ranked fifth in total receipts of gas with 118.6 billion cubic feet, its lowest yearly total since 1978. The company's receipts of gas peaked at 257.2 billion cubic feet in 1985.

Table 37. The Top 20 Companies Ranked by Receipts of Coal, 1990

Company	Quantity (thousand short tons)	Average Delivered Cost		Total Estimated Coal Bill (million dollars)
		(cents per million Btu)	(dollars per short ton)	
1. Tennessee Valley Authority	36,876	127.4	29.95	1,104.3
2. Texas Utilities Electric Co	31,244	94.7	12.27	383.5
3. PacifiCorp	28,990	98.5	18.75	543.5
4. Georgia Power Co	27,098	178.9	42.47	1,150.8
5. Detroit Edison Co	19,616	156.7	33.57	658.5
6. Pennsylvania Electric Co	17,920	145.4	35.13	629.5
7. Houston Lighting & Power Co	16,453	200.5	30.56	502.8
8. Alabama Power Co	15,542	205.8	50.05	777.8
9. Ohio Power Co	14,633	173.5	40.16	587.7
10. Public Service Co of Indiana Inc	13,586	146.0	31.78	431.7
11. Basin Electric Power Coop	13,468	65.2	9.74	131.2
12. Indiana Michigan Power	12,832	133.6	24.64	316.2
13. Northern States Power Co	12,221	121.2	21.27	259.9
14. Monogahela Power Co	12,173	131.8	33.54	408.3
15. Arizona Public Service Co	11,767	121.7	22.02	259.1
16. Appalachian Power Co	11,760	159.8	39.74	467.4
17. Pennsylvania Power & Light	10,433	170.9	41.53	433.3
18. Duke Power Co	10,257	175.6	44.01	451.4
19. Union Electric Co	10,222	151.2	32.78	335.1
20. Carolina Power & Light	9,868	179.9	45.16	445.6

Note: • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 38. The Top 20 Companies Ranked by Receipts of Petroleum, 1990

Company	Quantity (thousand barrels)	Average Delivered Cost		Total Estimated Petroleum Bill (million dollars)
		(cents per million Btu)	(dollars per barrel)	
1. Florida Power & Light Co	29,782	307.6	19.53	581.5
2. Consolidated Edison Co-NY Inc	18,958	413.8	25.75	488.2
3. Long Island Lighting Co	16,181	333.3	21.20	343.0
4. Niagara Mohowk Power Corp	10,832	343.8	21.70	235.1
5. Hawaiian Electric Co Inc	10,560	415.2	25.97	274.2
6. Central Hudson Gas & Elec Corp	10,436	313.6	19.96	208.3
7. Florida Power Corp	9,823	299.0	18.96	186.3
8. Connecticut Light & Power Co	9,395	304.7	19.25	180.8
9. Canal Electric Co	8,841	264.6	16.68	147.4
10. New England Power Co	8,015	297.0	18.85	151.1
11. Boston Edison Co	7,224	296.2	18.66	134.8
12. Southern California Edison	5,743	432.6	26.40	151.6
13. United Illuminating Co	5,292	295.8	18.82	99.6
14. Orange and Rockland Utils Inc	4,784	375.1	23.38	111.8
15. Public Service Co of NH	4,292	226.9	14.71	63.1
16. Baltimore Gas & Electric Co	3,902	319.8	20.09	78.4
17. Pennsylvania Power & Light Co	3,819	349.4	22.08	84.3
18. Central Maine Power Co	3,728	276.6	17.42	64.9
19. Potomac Electric Power	3,583	317.8	19.78	70.9
20. Pacific Gas & Electric Co	3,471	426.0	26.20	90.9

Note: • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 39. The Top 20 Companies Ranked by Receipts of Gas, 1990

Company	Quantity (thousand Mcf)	Average Delivered Cost (cents per million Btu)	Average Delivered Cost (dollars per Mcf)	Total Estimated Gas Bill (million dollars)
1. Texas Utilities Electric Co	339,800	248.1	2.57	874.3
2. Houston Lighting & Power Co	235,168	171.0	1.77	416.6
3. Pacific Gas & Electric Co	229,832	308.8	3.17	728.8
4. Gulf States Utilities Co	176,065	185.7	1.93	340.1
5. Southern California Edison Co	118,647	298.2	3.10	368.3
6. Louisiana Power & Light Co	112,563	142.6	1.49	167.7
7. Florida Power & Light Co	107,997	265.1	2.65	286.3
8. Consolidated Edison Co-NY Inc	103,150	222.7	2.30	237.2
9. Oklahoma Gas & Electric Co	83,757	306.2	3.18	266.0
10. Central Power & Light Co	83,418	220.8	2.32	193.8
11. Public Service Co of Oklahoma	52,985	302.7	3.20	169.5
12. Boston Edison Co	42,775	236.2	2.49	106.7
13. Los Angeles City of	40,312	325.5	3.39	136.7
14. San Antonio City Pub Service	39,724	187.2	1.91	75.8
15. Southwestern Public Service	39,556	190.1	1.95	77.2
16. West Texas Utilities Co	36,595	198.7	2.05	75.2
17. Mississippi Power & Light	34,490	179.0	1.87	64.4
18. San Diego Gas & Electric Co	33,992	255.2	2.63	89.6
19. Long Island Lighting Co	33,453	222.2	2.29	76.7
20. Arkansas Power & Light Co	31,951	154.0	1.57	50.1

Notes: • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Receipts and Costs

Coal

In 1990, several electric utilities reported notably higher receipts of coal. The largest increase occurred at the Indiana Michigan Power Company where Unit Number 2 of the Rockport Plant completed its first full year of commercial operation in 1990. Coal receipts at the plant totaled 10 million short tons, an increase of 4.6 million short tons from 1989. This coal from the Powder River Basin of Wyoming was delivered at an average cost of $20.77 per short ton. The low cost of western coal delivered to the Rockport Plant contributed to a decrease of $2.68 per short ton in 1990 from 1989 in the cost of coal delivered to the utility.

For the TVA, 1990 coal receipts of 36.9 million short tons represented an increase of 3.4 million short tons from 1989. This was the highest annual total that the TVA has reported since 1979. Contributing to higher coal receipts was an increase in coal consumption (1.7 million short tons) that resulted from a decline in hydroelectric and nuclear-powered generation. In addition, end-of-year stocks of coal at the company's plants grew by 1.7 million short tons above 1989 end-of-year stocks. During 1990, the TVA received its first test-shipments of subbituminous coal from Wyoming at its Paradise Plant. These receipts of coal totaled 202 thousand short tons at an average delivered cost of $21.11 per short ton.

The Public Service Company of Indiana reported coal receipts of 13.6 million short tons in 1990, an increase of 2.8 million short tons from 1989. Higher coal consumption in 1990, coupled with an increase of 1 million short tons in end-of-year stocks, of coal contributed to this increase in coal receipts.

Receipts of coal at the Georgia Power Company (GPC) in 1990 totaled 27.1 million short tons, an increase of 2.6 million short tons from 1989 and the highest annual total since 1984. There was more generation from coal at the GPC in 1990, as company-wide coal consumption increased by 2.1 million short tons. Most of the greater consumption occurred at the Scherer Plant, the third largest coal-fired plant in the United States (based on a generator nameplate capacity of 3,272 megawatts). This increase in coal consumption can be partially attributed to expanded use of low-Btu subbituminous coal from the Powder River Basin (PRB) of Wyoming. During 1990, the GPC used subbituminous coal extensively at the Scherer Plant, and a blended mixture of eastern and western coal at several additional plants. Three tons of PRB coal must be consumed for every two of eastern coal to provide the same heating value (the heat content of western subbituminous coal is approximately one-third less than that of eastern coal). Therefore, switching to PRB required additional coal. Receipts of western coal in 1990 totaled 2.2 million short tons at an average delivered cost of $26.80 per short ton.

Receipts of coal at the Kentucky Utilities Company (KUC) totaled 6.5 million short tons in 1990, an increase of 1.4 million short tons from the 1989 level. Consumption of coal increased by 98 thousand short tons, with most of it added to stocks. Receipts of coal were approximately 30 percent higher at the Ghent and Brown Plants and were chiefly used to replenish coal stocks. End-of-year coal stocks for the KUC in 1990 were 1.5 million short tons compared with 524 thousand short

tons at the end of 1989. The severe cold weather throughout the eastern United States during December 1989 resulted in depleted end-of-year coal stocks at many electric plants at the end of 1989.

The Detroit Edison Company reported total coal receipts of 19.6 million short tons in 1990, an increase of 1.3 million short tons from 1989 levels. Net generation of electricity from coal decreased slightly. However, coal consumption rose by 632 thousand short tons, which is the result of an increase in consumption of low-Btu subbituminous coal. Coal receipts at the Monroe and St. Clair Plants grew by 13 and 11 percent, respectively, primarily because of higher quantities of subbituminous coal deliveries in 1990 compared with 1989 quantities. On a company-wide basis, the average cost of coal fell from $37.09 per short ton in 1989 to $33.57 per short ton in 1990, because of increased deliveries of lower-cost subbituminous coal.

Receipts of coal to the Omaha Public Power District were 31 percent above 1989 levels. Coal consumption and coal-fired generation at the company also increased, while generation from its Fort Calhoun nuclear-powered facility showed a substantial decline in 1990.

A buildup in coal stockpiles was the major reason that receipts of coal at the Pennsylvania Electric Company (PEC) rose by 10 percent in 1990 from 1989. End-of-year coal stocks increased from 1.6 million short tons in 1989 to 2.9 million short tons in 1990. Coal consumption at the PEC is approximately 16 million short tons per year. Receipts of coal at the Ohio Power Company also rose above the 1989 level. The company's receipts totaled 14.6 million short tons, an increase of 1.2 million short tons from 1989. Consumption of coal declined by 1.2 million short tons from 1989, whereas, end-of-year stocks grew by 1.7 million short tons.

Some electric utilities posted sharply lower coal receipts during 1990 from 1989. For example, the amount of coal received by the Virginia Electric & Power Company (VEPCO) totaled 9.6 million short tons, a decrease of 1.6 million short tons from 1989. VEPCO's two nuclear plants, Surry and North Anna, returned to service after outages in 1989. Nuclear-powered generation at VEPCO in 1990 rose by 67 percent from the previous year, while coal-fired generation declined from 1989. The HL&P reported a decrease in receipts of coal at its Limestone and Parish Plants totaling 1 million short tons. Generation from HL&P's gas-fired plants and the jointly owned South Texas nuclear facility increased in 1990, while both coal-fired plants reported reduced generation. Receipts of coal at the Philadelphia Electric Company also declined in 1990. The return to service of the Peach Bottom Nuclear Plant and the startup of Limerick Unit 2 in August 1989 contributed to less coal-fired generation.

The cost of coal delivered to individual electric utilities varied considerably in 1990. The Minnkota Power Cooperative (North Dakota) reported an average delivered cost of $6.44 per short ton for low-Btu lignite, while the Tucson Electric Power Company reported an average delivered cost of $57.69 per short ton. The Alabama Power Company reported the highest average cost of coal delivered to an individual electric plant. The company reported that 4.4 million short tons of low-sulfur coal were delivered to the James Miller Plant at an average cost of $62.70 per short ton.

New Coal-Fired Units

Several new coal-fired plants and units contributed to an increase in coal receipts. In March 1990, the Texas New Mexico Power Company began commercial operation of its TNP ONE Plant, a 194-megawatt lignite-fired plant in Texas. Lignite delivered to the TNP ONE Plant amounted to 565 thousand short tons at an average cost of $18.39 per short ton. The Century Power Cooperative (formerly known as the Alamito Company) in Arizona placed the Springerville Unit Number 2 (397 megawatts) in commercial operation in April 1990 and doubled the nameplate capacity of this plant. Receipts of coal at the plant in 1990 totaled 1.8 million short tons, an increase of 425 thousand short tons from 1989. The coal originated in New Mexico and was delivered at an average cost of $36.48 per short ton.

The Louisville Gas & Electric Company placed Trimble County Unit Number 1 in commercial operation in September 1990. The Trimble County Plant is in Kentucky and has a nameplate capacity of 566 megawatts. During 1990, 324 thousand short tons of high-sulfur coal from Kentucky and Indiana were delivered to the plant at an average cost of $22.31 per short ton.

The Alabama Power Company's James Miller Unit Number 4 began commercial operation in December 1990. The addition of the 706-megawatt unit brings the total generator nameplate capacity of the plant to 2,822 megawatts. It is now one of the largest coal-fired plants in the United States. Receipts of coal in 1990 at the Miller Plant were 4.4 million short tons at an average delivered cost of $62.70 per short ton. This coal was primarily low-sulfur coal mined in Alabama.

In October 1989, the Indiana Michigan Power Company placed Rockport Unit Number 2 in commercial operation. The company's Units 1 and 2 (each has a 1,300-megawatt generator nameplate capacity rating) are two of the largest coal-fired units in operation in the United States. Receipts of coal at the plant totaled 10 million short tons during 1990; consumption of coal totaled 9.5 million short tons.

The most notable addition to the list of new units and plants was the Zimmer Plant located in Ohio which

began generating electricity in December 1990. The plant is jointly owned by the Dayton Power & Light Company, the Cincinnati Gas & Electric Company, and the Columbus Southern Power Company. This 1,300-megawatt coal-fired plant was originally scheduled to be completed as a nuclear plant. Safety and financial concerns during the construction phase, however, led to the redesign of the facility as a coal-fired plant. Coal received at the Zimmer Plant in 1990 totaled 484 thousand short tons, with all the coal originating in Ohio. Coal receipts at the plant are expected to be substantially higher in 1991.

The Boardman Plant located in Oregon, owned by the Portland General Electric Company (PG), returned to service in 1990. The plant had been temporarily idle because PG had contracted for relatively inexpensive hydroelectric power from Canada to replace the power generated at the plant. Coal received at the Boardman Plant in 1990 totaled nearly 1 million short tons, at an average cost of $18.02 per short ton.

Petroleum

Electric utilities received 209 million barrels of petroleum in 1990, a reduction of 37 million barrels from 1989. The largest decrease in receipts of petroleum in 1990 occurred at ConEd. The company received 19.0 million barrels at an average delivered cost of $25.75 per barrel. In 1989, the company received 24.0 million barrels of petroleum at an average delivered cost of $19.35 per barrel. Higher prices and the availability of gas (gas receipts were up 36 percent) contributed to the decline in petroleum receipts. VEPCO reported a 55-percent (3.4 million barrels) decrease in petroleum receipts. As mentioned previously, there was substantially higher generation from the two nuclear plants owned and operated by VEPCO.

Receipts of petroleum at the Pennsylvania Power & Light Company were 3.8 million barrels, a decrease of 41 percent (2.7 million barrels) from 1989 receipts. The average delivered cost of petroleum at the company rose from $17.56 per barrel in 1989 to $22.08 in 1990. Consumption of petroleum fell by 3.9 million barrels from 1989. In 1990, coal- and petroleum-fired generation declined, while nuclear-powered generation increased by 11 percent.

The availability of the Peach Bottom Nuclear Plant during 1990 allowed both the Philadelphia Electric Company and the Public Service Electric & Gas Company of New Jersey (PSE&G) to reduce their petroleum requirements. Receipts of petroleum to the Philadelphia Electric Company were 3.0 million barrels, a 40-percent reduction from the 5.0 million barrels reported in 1989. Receipts of petroleum to PSE&G totaled 1.6 million barrels, a decrease of 67 percent from the receipts reported in 1989. Each company owns 42 percent of the Peach Bottom facility.

The Public Service Company of New Hampshire (PSCNH) received 4.3 million barrels in 1990, a 16-percent decrease from 1989. This coincides with the March 1990 startup of the Seabrook Nuclear Plant of which the company owns 36 percent. Petroleum-fired generation declined to 2.3 million megawatthours, while nuclear-powered generation totaled 4.1 million megawatthours. The average cost of petroleum delivered to the PSCNH in 1990 was $14.71 per barrel. This is $6.57 below the national average of $21.28 and one of the lowest average delivered costs in 1990. The company purchases only high-sulfur fuel oil, which is usually less expensive compared to other fuel oils. The United Illuminating Company in Connecticut, which owns 18 percent of the Seabrook Plant, reduced its petroleum receipts by 17 percent (1.1 million barrels).

Receipts of petroleum to the Boston Edison Company were 7.2 million barrels, a decrease of 2.5 million barrels from 1989. The average cost of petroleum delivered to the Boston Edison Company was $18.66 per barrel, an increase of $1.88 per barrel from 1989. Consumption of petroleum fell by 3.1 million barrels with a corresponding decrease in petroleum-fired generation. However, generation from the Companys' Pilgrim Nuclear Plant increased by 148 percent, offsetting the decline in petroleum-fired generation.

The FP&L was one of the few electric utilities to report a notable increase in petroleum receipts in 1990. FP&L reported receiving 29.8 million barrels of petroleum at an average delivered cost of $19.53 per barrel. This compares with 1989 petroleum receipts of 25.4 million barrels at an average delivered cost of $17.52 per barrel. Petroleum and gas generation at the company were virtually unchanged from 1989, while nuclear-powered generation decreased slightly. End-of-year stocks of petroleum totaled 6.7 million barrels, an increase of 3.8 million barrels (134 percent) from 1989 end-of-year stocks. Because of its dependency on petroleum, FP&L increased its petroleum stocks in preparation for either a supply shortage or additional increases in petroleum costs that might occur as a result of the Iraqi invasion of Kuwait.

The SCE reported an increase of 2.6 million barrels (83 percent) in its receipts of petroleum. Receipts of petroleum in 1990 were 5.7 million barrels at an average delivered cost of $26.40 per barrel. Because of environmental regulations, nearly all petroleum delivered to electric plants located in California must have a sulfur content of 0.3 percent or less. This usually results in a relatively high delivered cost.) This increase in receipts of petroleum at SCE occurred at the same time as its consumption of petroleum decreased from 5.4 million barrels in 1989 to 3.1 million barrels in 1990. As a result, the company's 1990 end-of-year stocks of petroleum were 7.0 million barrels compared with 1989 end-of-year stocks of 4.3 million barrels.

Gas

Electric utilities received 2,491 billion cubic feet of gas in 1990, an increase of 18.5 billion cubic feet from the level reported in 1989. The availability of nuclear-powered generation, the difference between the cost of gas and petroleum, and the nationwide availability of gas supplies were three important factors affecting gas receipts at individual electric utilities during 1990.

The ConEd reported receiving 103.2 billion cubic feet of gas at an average delivered cost of $2.30 per thousand cubic feet. This is an increase of 27.3 billion cubic feet from 1989 gas receipts and is the largest annual volume that the company has reported to date. In 1990, the cost of gas delivered to ConEd was $2.23 per million Btu, compared with $4.14 per million Btu for petroleum. In 1990, gas-fired generation rose by 32 percent, while petroleum-fired generation decreased by 39 percent for the company.

The return to full service of the Palo Verde Nuclear Plant, operated by the Arizona Public Service Company (APS) dramatically affected gas receipts at several electric utilities in Arizona and California. SCE received 118.6 billion cubic feet of gas in 1990, a decrease of 37.0 billion cubic feet from 1989. Total gas- and petroleum-fired generation from company-operated plants decreased substantially in 1990 from 1989 levels. However, nuclear-powered generation was obtained from the Palo Verde Plant in which SCE has a 16-percent ownership. Generation from the Palo Verde Plant, the largest nuclear facility in the Nation, increased by 162 percent in 1990. The Salt River Project (Arizona), which owns 18 percent of the Palo Verde Plant, reported a decrease in receipts of gas of 9.3 billion cubic feet (67 percent) with a corresponding reduction in gas-fired generation. The Salt River Project also reported declines in coal- and petroleum-fired generation. Receipts of gas at APS fell by 6.8 billion cubic feet (59 percent); the APS owns 29 percent of the Palo Verde Plant. Receipts of gas at the El Paso Electric Company decreased by 4.9 billion cubic feet (24 percent). The company has a 16-percent ownership in the Palo Verde Plant.

The Mississippi Power & Light Company reported receiving 34.5 billion cubic feet of gas in 1990, an increase of 84 percent (15.7 billion cubic feet) from 1989 gas receipts. Most of the growth occurred at the Wilson Plant, where gas receipts increased by 12 billion cubic feet. A legal dispute with a gas pipeline company limited the volume of gas receipts to 0.6 billion cubic feet at the Wilson Plant during 1989.

Receipts of gas and petroleum at TU decreased in 1990, compared with 1989. A corresponding decrease in gas- and petroleum-fired generation occurred when the Comanche Peak Nuclear Plant started-up. The plant, which began commercial operation in April 1990, generated 3.4 million megawatthours, while the company's gas- and petroleum-fired generation decreased by a total of 2.5 million megawatthours.

Gas received by LILCO totaled 33.5 billion cubic feet, an increase of 10.6 billion cubic feet from 1989. Gas-fired generation increased substantially, while petroleum receipts and generation decreased. The cost of gas delivered to the LILCO was $2.22 per million Btu, compared with $3.33 per million Btu for petroleum.

Companies With Unique Situations

The following companies have unique situations that affect the quantity or cost of fuel reported on the FERC Form 423.

Alabama Power Company. All coal delivered to the Gorgas Transshipping Facility is reported as receipts to the Gorgas Plant. Large quantities of this coal are then shipped to the Barry Plant, approximately 250 miles to the south, and the Greene Plant. Transportation costs for coal shipped from the Gorgas Plant to either the Barry Plant or the Greene Plant are not included in this report. Most coal delivered to the Barry and Greene Plants is reported as receipts to the Gorgas Plant.

Baltimore Gas & Electric. Coal receipts for the Brandon Shores Plant are reported when received at the Newport News Virginia dock facility. Transportation costs from Newport News to the Brandon Shores Plant are included in the cost data shown in this report.

Consolidated Edison of New York. Its storage facilities 1, 2, and 5 are located in New Jersey; facilities 3, 4, and 6 are located in New York.

Deepwater Operating Company. Coal receipts are reported only for the coal-fired unit at the Deepwater Plant that is owned by the company. Data on units owned by the Dupont Chemical Company, which is not an electric utility, are not included in this report.

Delmarva Power & Light Company. Only the fuel receipts for Unit 3 are reported. Data are not reported for Units 1, 2, and 4 since they are owned by Texaco, which is not an electric utility.

Detroit Edison. The company's low fuel cost results from its purchase of large quantities of blast-furnace gas.

Florida Power Corporation. Approximately half of the coal reported for the Crystal River Plant includes the cost of transportation to the plant. All other coal is shown as delivered to transfer facilities in Kentucky, West Virginia, and Louisiana. These receipts, although shown in this publication as being delivered to Crystal River, include only the transportation costs from the mine to the transfer facility.

Tampa Electric. Transportation costs (approximately $5.00 per short ton) for coal shipped from the New Orleans loading facility to the Big Bend Plant are not included in this report.

Tennessee Valley Authority. The cost of coal delivered to the TVA reflects the actual cost of coal in 1990. Adjustments reported monthly by the TVA are not included.

Texas Utilities Electric Company. Coal receipts and costs are only reported for the unit (Unit 4) at the Sandow Plant that is owned and operated by the company. Data for Units 1, 2, and 3, owned by Alcoa, are not reported since Alcoa is not an electric utility.

A list of all holding companies in this chapter can be found in the chapter "Origin and Destination of Coal." Table B2 in Appendix B contains a listing, by State, of the electric utilities that submit the FERC Form 423.

Table 40. Receipts of Petroleum Coke, 1990

Company	Quantity (thousand short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Central Elec Power Coop MO.	29	14,138	4.42	0.98	99.3	28.07
Northern Indiana Pub Serv Co	192	14,390	5.50	.81	71.0	20.44
Northern States Power Co	137	14,264	5.36	.42	75.8	21.62
Pennsylvania Power & Light Co	193	14,130	5.79	.52	89.9	25.41
Tennessee Valley Authority	3	14,200	4.70	.30	82.4	23.40
Total	**554**	**14,254**	**5.50**	**.62**	**80.3**	**22.88**

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 41. Receipts of No. 6 Fuel Oil, 1990

Company	Quantity (thousand barrels)	Average Quality		Average Delivered Cost	
		Btu (per gallon)	Sulfur (percent by weight)	(cents per million Btu)	(dollars per barrel)
Arizona Public Service Co	12	149,054	0.83	283.0	17.72
Arkansas Power & Light Co	15	149,666	.10	274.6	17.26
Atlantic City Electric Co	407	151,587	.89	364.1	23.18
Baltimore Gas & Electric Co	3,902	149,527	.97	319.8	20.09
Bangor Hydro-Electric Co	63	151,612	.64	392.3	24.98
Boston Edison Co	7,224	149,982	.89	296.2	18.66
Burbank City of	8	154,307	.22	359.4	23.29
Cambridge Electric Light Co	197	150,089	.43	377.1	23.77
Canal Electric Co	8,841	150,035	2.14	264.6	16.68
Central Hudson Gas & Elec Corp	10,413	151,584	1.28	313.0	19.93
Central Illinois Pub Serv Co	39	150,537	.68	283.5	17.92
Central Maine Power Co	3,718	149,992	.88	275.9	17.38
Cleveland Electric Illum Co	192	153,379	1.05	311.6	20.07
Commonwealth Edison Co	1,449	151,867	.69	378.0	24.11
Commonwealth Electric Co	72	150,195	.92	308.7	19.47
Connecticut Light & Power Co	9,366	150,441	.85	303.9	19.20
Consolidated Edison Co-NY Inc	18,958	148,198	.27	413.8	25.75
Consumers Power Co	615	150,294	.96	294.1	18.57
Coop Power Assn	9	147,000	2.50	209.1	12.91
Deepwater Operating Co	188	149,573	.98	274.4	17.24
Delmarva Power & Light Co	1,861	151,575	1.18	283.6	18.06
Detroit City of	393	144,951	.63	271.5	16.53
Detroit Edison Co	295	147,085	.8	302.8	18.71
Dover City of	490	151,637	2.1	283.9	18.08
Florida Power & Light Co	29,722	151,140	1.1	307.4	19.51
Florida Power Corp	9,633	151,226	1.5	295.2	18.75
Fort Pierre City of	1	147,913	.7	542.8	33.72
Gainesville Regional Utilities	53	151,324	1.3	403.1	25.62
Georgia Power Co	9	147,000	2.6	221.3	13.66
Gulf States Utilities Co	122	148,748	.2	238.3	14.89
Hawaiian Electric Co Inc	10,559	148,883	.5	415.2	25.96
Houston Lighting & Power Co	59	148,476	1.0	350.0	21.83
Illinois Power Co	193	150,000	.9	266.8	16.81
Imperial Irrigation District	133	149,500	1.2	262.0	16.45
Jacksonville Electric Auth	1,229	151,100	1.6	205.0	13.01
Jersey Central Power&Light Co	672	149,769	.4	349.3	21.97
Lakeland City of	184	150,070	2.2	246.4	15.53
Long Island Lighting Co	16,181	151,421	.8	333.3	21.20
Los Angeles City of	1,434	146,370	.2	592.3	36.41
Louisiana Power & Light Co	48	148,468	1.0	261.3	16.30
Mississippi Power & Light Co	1,161	151,618	2.9	235.6	15.00
Mississippi Power Co	10	150,931	2.9	186.8	11.84
Montaup Electric Co	56	150,965	.9	274.3	17.39
Nevada Power Co	202	148,978	.9	289.3	18.10
New England Power Co	8,015	151,114	1.9	297.0	18.85
New Orleans Public Service Inc	21	151,920	1.5	259.5	16.55
Niagara Mohawk Power Corp	10,828	150,333	1.1	343.6	21.70
Oklahoma Gas & Electric Co	110	156,571	1.1	302.2	19.88
Orange & Rockland Utils Inc	4,784	148,376	.3	375.1	23.38
Orlando Utilities Comm	1,007	151,447	1.5	200.4	12.75
Pacific Gas & Electric Co	3,471	146,420	.5	426.0	26.20
Pasadena City of	29	149,256	.2	286.6	17.97
Pennsylvania Power & Light Co	3,558	151,254	.9	332.0	21.09
Philadelphia Electric Co	3,004	150,450	.5	329.7	20.83
Potomac Electric Power Co	2,250	150,875	1.5	286.8	18.17
Power Authority of State of NY	1,357	148,235	.3	409.8	25.51
Public Service Co of NH	4,264	154,436	1.9	224.9	14.59
Public Service Electric&Gas Co	1,584	147,237	.3	343.6	21.25
Puget Sound Power & Light Co	*	156,000	2.0	305.0	19.98
Salt River Proj Ag I & P Dist	96	147,745	.9	355.8	22.08
San Diego Gas & Electric Co	1,627	147,107	.4	347.8	21.49
Savannah Electric & Power Co	43	149,113	2.3	216.8	13.58
Sierra Pacific Power Co	62	148,800	.8	306.2	19.13
Southern California Edison Co	5,743	145,289	.3	432.6	26.40
St Joseph Light & Power Co	34	154,611	2.6	179.6	11.66
Tampa Electric Co	205	151,161	1.0	410.2	26.04
Taunton City of	154	150,194	1.3	324.2	20.45
United Illuminating Co	5,285	151,490	1.0	295.5	18.80
Vineland City of	111	150,578	.9	299.0	18.91
Virginia Electric & Power Co	2,479	147,161	1.0	360.4	22.28
Western Massachusetts Elec Co	318	150,399	1.0	358.7	22.66
Total	**200,824**	**150,140**	**.99**	**331.71**	**20.92**

* = Number less than 0.05 rounded to zero.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Alabama Electric Coop Inc	**645**	**11,754**	**1.39**	**13.81**	**178.8**	**42.04**	**583**	**11,902**	**1.56**	**13.57**	**145.0**	**34.52**
Lowman (AL)	645	11,754	1.39	13.81	178.8	42.04	583	11,902	1.56	13.57	145.0	34.52
Alabama Power Co	**14,295**	**12,226**	**1.27**	**12.27**	**212.2**	**51.89**	**1,247**	**11,418**	**1.81**	**11.65**	**126.8**	**28.95**
Barry (AL)	800	12,512	.94	11.49	207.7	51.97	-	-	-	-	-	-
Gadsden (AL)	112	12,674	1.88	12.08	206.1	52.24	-	-	-	-	-	-
Gorgas 2 and 3 (AL)	4,690	11,904	1.23	13.47	186.2	44.33	848	11,950	2.16	13.27	118.2	28.25
Greene (AL)	832	12,556	1.46	11.20	213.9	53.72	25	12,979	.83	9.70	142.9	37.09
Gaston (AL)	3,659	12,263	2.14	12.34	190.6	46.76	157	12,095	2.07	12.05	127.5	30.85
James Miller (AL)	4,201	12,421	.56	11.25	259.3	64.41	216	8,657	.38	5.21	169.7	29.39
Ames City of	**193**	**8,801**	**.22**	**4.55**	**126.5**	**22.26**	**-**	**-**	**-**	**-**	**-**	**-**
Ames (IA)	193	8,801	.22	4.55	126.5	22.26	-	-	-	-	-	-
Appalachian Power Co	**7,789**	**12,496**	**.78**	**11.06**	**180.0**	**44.99**	**3,971**	**12,313**	**.74**	**11.85**	**119.5**	**29.44**
Clinch River (VA)	986	12,428	.77	13.71	151.7	37.70	628	12,490	.78	13.14	115.7	28.90
Glen Lyn (VA)	365	12,582	.81	10.87	186.7	46.97	173	12,796	.80	10.39	135.8	34.75
Amos (WV)	4,465	12,489	.81	10.62	187.8	46.92	1,757	12,235	.77	11.87	112.7	27.58
Kanawha River (WV)	416	12,634	.76	11.42	167.7	42.38	82	12,056	.81	12.39	106.3	25.64
Mountaineer (WV)	1,556	12,501	.71	10.60	177.3	44.32	1,331	12,286	.66	11.37	129.0	31.69
Arizona Electric Pwr Coop Inc	**1,043**	**11,785**	**.40**	**16.51**	**172.6**	**40.69**	**31**	**10,243**	**.57**	**9.34**	**159.6**	**32.70**
Apache (AZ)	1,043	11,785	.40	16.51	172.6	40.69	31	10,243	.57	9.34	159.6	32.70
Arizona Public Service Co	**11,767**	**9,047**	**.71**	**20.05**	**121.7**	**22.02**	**-**	**-**	**-**	**-**	**-**	**-**
Cholla (AZ)	3,045	9,861	.46	13.97	166.3	32.80	-	-	-	-	-	-
Four Corners (NM)	8,722	8,764	.80	22.17	104.2	18.26	-	-	-	-	-	-
Arkansas Power & Light Co	**9,215**	**8,807**	**.34**	**5.35**	**162.7**	**28.66**	**-**	**-**	**-**	**-**	**-**	**-**
Whitebluff (AR)	4,699	8,795	.47	5.80	165.5	29.11	-	-	-	-	-	-
Independence (AR)	4,516	8,818	.21	4.89	159.9	28.19	-	-	-	-	-	-
Associated Electric Coop Inc	**5,736**	**10,678**	**3.40**	**10.15**	**132.0**	**28.20**	**-**	**-**	**-**	**-**	**-**	**-**
Madrid (MO)	3,449	10,757	2.88	10.26	119.5	25.70	-	-	-	-	-	-
Hill (MO)	2,287	10,560	4.19	9.98	151.3	31.96	-	-	-	-	-	-
Atlantic City Electric Co	**489**	**13,082**	**2.69**	**10.01**	**181.2**	**47.41**	**80**	**13,257**	**1.79**	**7.56**	**193.7**	**51.36**
England (NJ)	489	13,082	2.69	10.01	181.2	47.41	80	13,257	1.79	7.56	193.7	51.36
Baltimore Gas & Electric Co	**2,778**	**12,931**	**1.04**	**8.60**	**154.3**	**39.91**	**754**	**12,907**	**1.06**	**8.92**	**167.8**	**43.32**
Brandon Shores (MD)	1,553	12,732	.70	9.34	153.6	39.11	309	12,782	.70	9.87	169.9	43.44
Crane (MD)	516	13,351	2.35	7.07	154.0	41.12	224	13,139	1.75	7.61	159.1	41.82
Wagner (MD)	709	13,061	.83	8.09	156.1	40.77	221	12,845	.87	8.92	173.9	44.68
Basin Electric Power Coop	**13,468**	**7,466**	**.51**	**7.22**	**65.2**	**9.74**	**-**	**-**	**-**	**-**	**-**	**-**
Leland Olds (ND)	1,995	6,597	.66	8.73	90.2	11.90	-	-	-	-	-	-
Laramie River (WY)	6,670	8,302	.37	5.30	58.5	9.72	-	-	-	-	-	-
Antelope Valley (ND)	4,803	6,666	.63	9.27	66.6	8.88	-	-	-	-	-	-
Big Rivers Electric Corp	**4,847**	**11,160**	**3.59**	**12.82**	**124.3**	**27.73**	**263**	**11,491**	**2.80**	**8.93**	**105.5**	**24.25**
Coleman (KY)	1,237	11,319	2.57	8.22	108.8	24.62	204	11,563	2.59	8.37	107.5	24.85
Reid-Henderson (KY)	824	12,121	2.67	8.95	124.6	30.20	-	-	-	-	-	-
R D Green (KY)	1,585	10,540	4.35	16.71	121.6	25.63	59	11,244	3.54	10.89	98.6	22.17
Wilson (KY)	1,201	11,157	4.26	15.06	143.5	32.03	-	-	-	-	-	-
Cajun Electric Power Coop Inc	**4,682**	**8,604**	**.44**	**5.35**	**170.3**	**29.30**	**-**	**-**	**-**	**-**	**-**	**-**
Big Cajun No.2 (LA)	4,682	8,604	.44	5.35	170.3	29.30	-	-	-	-	-	-
Cardinal Operating Co	**3,825**	**11,846**	**2.13**	**13.03**	**153.4**	**36.34**	**164**	**11,839**	**3.12**	**12.59**	**106.7**	**25.27**
Cardinal (OH)	3,825	11,846	2.13	13.03	153.4	36.34	164	11,839	3.12	12.59	106.7	25.27
Carolina Power & Light Co	**9,087**	**12,538**	**.90**	**10.21**	**181.7**	**45.56**	**781**	**12,723**	**.95**	**9.29**	**159.3**	**40.54**
Asheville (NC)	929	13,322	1.19	9.33	135.6	36.13	41	13,072	1.17	10.05	149.2	39.02

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Carolina Power & Light Co												
Cape Fear (NC)	471	12,693	1.02	9.09	199.2	50.56	70	12,454	0.95	11.04	160.1	39.88
Lee (NC)	339	12,820	1.05	8.34	206.6	52.96	98	12,634	.91	10.04	162.3	41.02
Roxboro (NC)	5,171	12,479	.87	10.14	182.9	45.64	372	12,872	.94	8.37	153.9	39.62
Sutton (NC)	435	12,726	1.10	10.52	190.4	48.46	135	12,491	.93	10.10	171.3	42.79
Weatherspoon (NC)	162	12,704	1.10	10.26	195.7	49.72	12	12,437	.88	9.37	178.3	44.34
Robinson (SC)	176	12,438	1.23	10.48	189.6	47.17	33	12,373	1.25	10.05	168.8	41.76
Mayo (NC)	1,403	12,052	.62	11.72	192.7	46.45	19	12,978	.61	8.30	158.7	41.19
Cedar Falls City of	-	-	-	-	-	-	22	11,214	3.05	11.17	139.1	31.19
Streeter (IA)	-	-	-	-	-	-	22	11,214	3.05	11.17	139.1	31.19
Central Electric Pwr Coop-MO	-	-	-	-	-	-	116	10,818	3.04	10.04	128.2	27.74
Chamois (MO)	-	-	-	-	-	-	116	10,818	3.04	10.04	128.2	27.74
Central Hudson Gas & Elec Corp	776	13,062	.56	8.17	207.5	54.21	158	13,133	.65	7.67	197.2	51.79
Danskammer (NY)	776	13,062	.56	8.17	207.5	54.21	158	13,133	.65	7.67	197.2	51.79
Central Illinois Light Co	1,591	11,863	2.13	7.03	183.1	43.44	539	12,323	1.43	7.09	168.2	41.46
Edwards (IL)	730	13,356	.68	5.54	179.5	47.95	539	12,323	1.43	7.09	168.2	41.46
Duck Creek (IL)	861	10,596	3.37	8.29	186.9	39.61	-	-	-	-	-	-
Central Illinois Pub Serv Co	4,385	11,077	2.75	9.09	160.8	35.62	331	11,821	.91	10.42	154.4	36.51
Coffeen (IL)	1,746	10,606	3.54	8.58	158.9	33.70	-	-	-	-	-	-
Grand Tower (IL)	204	11,574	2.99	11.46	164.7	38.13	-	-	-	-	-	-
Hutsonville (IL)	193	11,418	2.67	8.55	144.8	33.07	20	10,948	2.41	10.44	123.6	27.06
Meredosia (IL)	477	11,308	2.52	5.03	146.9	33.23	40	12,061	2.69	5.60	134.6	32.47
Newton (IL)	1,765	11,386	2.01	10.47	167.5	38.15	270	11,852	.54	11.14	159.6	37.82
Central Iowa Power Coop	120	10,859	2.94	10.28	117.9	25.61	22	11,339	3.01	9.57	116.8	26.50
Fair Station (IA)	120	10,859	2.94	10.28	117.9	25.61	22	11,339	3.01	9.57	116.8	26.50
Central Louisiana Elec Co Inc	4,852	7,540	.53	10.20	157.3	23.72	-	-	-	-	-	-
Dolet Hills (LA)	3,186	6,881	.55	12.50	133.5	18.37	-	-	-	-	-	-
Rodemacher (LA)	1,666	8,800	.49	5.80	192.8	33.93	-	-	-	-	-	-
Central Operating Co	1,206	12,394	1.13	11.29	160.5	39.77	946	12,200	1.13	12.22	111.3	27.17
Sporn (WV)	1,206	12,394	1.13	11.29	160.5	39.77	946	12,200	1.13	12.22	111.3	27.17
Central Power & Light Co	1,210	10,622	.36	5.17	222.5	47.26	619	10,521	.43	8.49	173.6	36.52
Coleto Creek (TX)	1,210	10,622	.36	5.17	222.5	47.26	619	10,521	.43	8.49	173.6	36.52
Century Power Corp	1,785	9,268	.62	16.53	196.8	36.48	-	-	-	-	-	-
Springerville (AZ)	1,785	9,268	.62	16.53	196.8	36.48	-	-	-	-	-	-
Cincinnati Gas & Electric Co	4,355	11,696	1.69	12.28	166.9	39.04	3,650	11,670	2.22	11.69	115.0	26.84
Beckjord (OH)	1,422	11,582	1.64	12.92	169.6	39.28	1,312	11,559	2.48	12.41	111.6	25.80
Miami Fort (OH)	1,990	11,821	1.63	11.66	164.7	38.93	1,278	11,801	1.80	11.35	119.8	28.28
East Bend (KY)	943	11,605	1.90	12.63	167.7	38.92	575	11,485	1.88	12.04	116.2	26.69
Zimmer (OH)	-	-	-	-	-	-	484	11,846	3.02	10.22	110.0	26.06
Cleveland Electric Illum Co	2,550	12,410	3.16	9.98	165.4	41.05	2,831	12,734	2.17	8.67	144.2	36.73
Ashtabula (OH)	451	12,401	4.04	9.87	157.4	39.03	503	12,873	2.38	8.00	135.1	34.78
Avon Lake (OH)	1,261	12,332	2.37	9.99	163.2	40.26	576	12,141	2.23	9.89	138.0	33.51
Eastlake (OH)	838	12,532	3.88	10.02	172.8	43.32	1,342	12,833	2.55	9.06	140.4	36.04
Lake Shore (OH)	-	-	-	-	-	-	409	13,072	.60	6.50	175.5	45.88
Colorado Springs City of	697	10,544	.37	5.86	176.2	37.16	671	10,861	.42	7.29	108.1	23.48
Drake (CO)	406	10,616	.36	5.02	172.9	36.71	202	10,582	.39	5.27	103.9	21.99
Nixon (CO)	291	10,442	.39	7.03	181.0	37.79	469	10,982	.43	8.16	109.8	24.12
Colorado Ute Electric Assn Inc	4,582	10,309	.40	8.23	95.9	19.78	1,031	10,381	.35	5.78	80.6	16.74
Hayden (CO)	1,478	10,668	.43	10.14	84.8	18.09	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Colorado Ute Electric Assn Inc												
Nucla (CO)	209	10,314	0.50	17.22	125.5	25.88	-	-	-	-	-	-
Craig (CO)	2,896	10,126	.38	6.60	99.7	20.20	1,031	10,381	0.35	5.78	80.6	16.74
Columbia City of	**13**	**10,530**	**3.69**	**11.84**	**158.6**	**33.41**	**23**	**14,128**	**.63**	**5.59**	**212.8**	**60.12**
Columbia (MO)	13	10,530	3.69	11.84	158.6	33.41	23	14,128	.63	5.59	212.8	60.12
Columbus Southern Power Co	**3,306**	**11,839**	**3.02**	**7.91**	**165.5**	**39.18**	**599**	**11,344**	**3.67**	**10.49**	**97.3**	**22.08**
Conesville (OH)	3,150	11,855	3.03	7.80	167.7	39.75	489	11,269	3.76	10.76	96.3	21.70
Picway (OH)	155	11,504	2.78	10.10	120.1	27.64	109	11,678	3.29	9.24	101.8	23.77
Columbus City of	**-**	**-**	**-**	**-**	**-**	**-**	**45**	**12,329**	**.74**	**8.58**	**168.6**	**41.58**
Solid Waste R F (OH)	-	-	-	-	-	-	45	12,329	.74	8.58	168.6	41.58
Commonwealth Edison Co	**8,516**	**9,747**	**1.24**	**7.21**	**250.2**	**48.77**	**-**	**-**	**-**	**-**	**-**	**-**
Crawford (IL)	254	9,504	.44	8.54	323.4	61.47	-	-	-	-	-	-
Joliet (IL)	1,503	9,529	.42	7.88	296.0	56.41	-	-	-	-	-	-
Kincaid (IL)	2,335	10,266	3.46	9.37	138.0	28.34	-	-	-	-	-	-
Powerton (IL)	1,969	9,596	.37	4.13	280.9	53.92	-	-	-	-	-	-
Waukegan (IL)	850	9,504	.42	8.47	284.2	54.02	-	-	-	-	-	-
Will County (IL)	856	9,562	.40	6.21	319.9	61.17	-	-	-	-	-	-
Fisk (IL)	400	9,502	.42	8.59	322.2	61.22	-	-	-	-	-	-
State Line (IN)	348	9,566	.39	4.15	296.5	56.72	-	-	-	-	-	-
Consumers Power Co	**3,509**	**12,297**	**.73**	**9.51**	**166.8**	**41.02**	**3,201**	**11,878**	**.83**	**10.63**	**153.6**	**36.49**
Cobb (MI)	277	10,167	.49	6.28	146.8	29.84	550	11,421	.76	8.90	155.8	35.59
Karn-Weadock (MI)	543	12,358	.79	10.19	158.7	39.22	717	12,188	.91	11.15	153.1	37.31
Campbell (MI)	1,903	12,599	.71	9.28	175.2	44.15	987	12,137	.87	11.60	158.2	38.40
Weadock (MI)	216	12,377	.86	10.40	159.9	39.58	620	11,323	.74	9.41	146.7	33.22
Whiting (MI)	570	12,232	.83	10.84	156.5	38.29	327	12,236	.86	11.75	149.7	36.63
Coop Power Assn	**6,776**	**6,360**	**.77**	**10.60**	**68.3**	**8.69**	**-**	**-**	**-**	**-**	**-**	**-**
Coal Creek (ND)	6,776	6,360	.77	10.60	68.3	8.69	-	-	-	-	-	-
Dairyland Power Coop	**1,249**	**9,257**	**.75**	**5.75**	**141.8**	**26.25**	**786**	**9,158**	**1.10**	**7.26**	**118.6**	**21.71**
Alma-Madgett (WI)	1,124	9,054	.54	5.33	142.7	25.85	316	8,420	.37	5.31	106.9	18.01
Genoa No.3 (WI)	100	10,926	2.94	10.34	132.4	28.94	470	9,654	1.58	8.57	125.4	24.21
Stoneman (WI)	25	11,694	1.42	6.21	143.0	33.45	-	-	-	-	-	-
Dayton Power & Light Co	**3,572**	**11,996**	**1.16**	**12.71**	**189.8**	**45.55**	**5,482**	**11,700**	**1.30**	**13.43**	**124.0**	**29.02**
Hutchings (OH)	-	-	-	-	-	-	169	12,169	.79	10.54	150.1	36.53
Stuart (OH)	2,724	11,824	1.32	13.21	196.8	46.53	4,232	11,477	1.48	14.29	119.8	27.50
Killen (OH)	847	12,549	.64	11.12	168.9	42.39	1,082	12,500	.65	10.53	135.2	33.80
Deepwater Operating Co	**185**	**12,953**	**.84**	**9.30**	**177.7**	**46.03**	**8**	**12,586**	**.73**	**12.00**	**180.9**	**45.54**
Deepwater (NJ)	185	12,953	.84	9.30	177.7	46.03	8	12,586	.73	12.00	180.9	45.54
Delmarva Power & Light Co	**1,628**	**13,046**	**.94**	**8.72**	**183.8**	**47.96**	**563**	**13,002**	**1.05**	**8.68**	**174.7**	**45.44**
Edgemoor (DE)	566	13,318	.85	7.78	200.3	53.35	*	13,000	1.00	10.00	163.4	42.48
Indian River (DE)	1,062	12,902	.99	9.22	174.7	45.09	563	13,002	1.05	8.68	174.8	45.44
Deseret Generation & Tran Coop	**1,508**	**10,736**	**.48**	**8.86**	**223.3**	**47.95**	**-**	**-**	**-**	**-**	**-**	**-**
Bonanza (UT)	1,508	10,736	.48	8.86	223.3	47.95	-	-	-	-	-	-
Detroit Edison Co	**16,765**	**10,796**	**.62**	**5.51**	**161.5**	**34.87**	**2,851**	**10,231**	**.68**	**5.83**	**126.6**	**25.90**
Harbor Beach (MI)	53	13,276	.91	7.64	183.1	48.61	-	-	-	-	-	-
Monroe (MI)	6,054	11,850	.87	6.18	172.4	40.86	2,019	10,369	.65	5.93	125.8	26.08
River Rouge (MI)	974	12,573	.71	10.16	166.7	41.92	13	8,790	.30	5.25	107.2	18.85
St Clair (MI)	4,592	9,712	.48	4.38	142.2	27.62	563	9,970	.90	5.99	127.0	25.32
Trenton Channel (MI)	1,251	12,001	.73	7.08	197.7	47.46	41	11,975	.73	7.66	169.9	40.70
Belle River (MI)	3,841	9,554	.34	4.07	146.7	28.03	215	9,374	.32	4.15	124.5	23.35
Duke Power Co	**7,532**	**12,524**	**1.01**	**9.86**	**186.0**	**46.59**	**2,725**	**12,566**	**1.00**	**9.05**	**146.8**	**36.89**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Duke Power Co												
Allen (NC)	1,254	12,577	1.03	11.26	179.1	45.05	1	12,090	1.24	11.70	143.2	34.63
Buck (NC)	28	12,871	.93	8.69	198.6	51.12	55	12,777	.95	9.25	161.1	41.16
Cliffside (NC)	581	12,648	1.05	8.95	196.8	49.77	327	12,403	1.00	9.97	152.0	37.69
Dan River (NC)	38	12,718	.98	7.62	188.9	48.05	231	12,728	.96	9.30	147.9	37.66
Marshall (NC)	2,351	12,550	1.06	10.45	182.0	45.68	1,497	12,523	.99	8.96	144.2	36.12
Riverbend (NC)	98	12,674	1.05	9.32	196.2	49.73	145	12,644	1.00	9.11	147.7	37.36
Lee (SC)	-	-	-	-	-	-	309	12,624	1.00	9.13	154.7	39.07
Belews Creek (NC)	3,182	12,451	.97	9.10	189.3	47.13	160	12,618	1.16	7.36	137.8	35.34
Duquesne Light Co	**1,659**	**12,367**	**1.63**	**11.94**	**153.2**	**37.88**	**579**	**12,320**	**1.96**	**11.86**	**114.7**	**28.26**
Elrama (PA)	431	12,437	1.85	11.40	170.7	42.45	380	12,076	2.04	12.91	111.6	26.96
Cheswick (PA)	1,228	12,342	1.56	12.13	147.0	36.28	199	12,785	1.82	9.87	120.2	30.74
East Kentucky Power Coop	**1,080**	**11,947**	**1.59**	**12.06**	**117.8**	**28.15**	**1,774**	**12,282**	**.92**	**10.67**	**120.1**	**29.50**
Cooper (KY)	370	11,896	1.50	11.92	123.0	29.27	282	12,261	1.56	10.03	116.3	28.52
Dale (KY)	-	-	-	-	-	-	256	12,133	.82	10.20	120.7	29.30
Spurlock (KY)	710	11,973	1.63	12.13	115.1	27.56	1,236	12,318	.80	10.92	120.8	29.76
Electric Energy Inc	**1,418**	**11,763**	**1.88**	**8.39**	**112.9**	**26.56**	**2,059**	**11,414**	**2.00**	**8.90**	**120.5**	**27.52**
Joppa (IL)	1,418	11,763	1.88	8.39	112.9	26.56	2,059	11,414	2.00	8.90	120.5	27.52
Empire District Electric Co	**516**	**8,810**	**.23**	**4.60**	**103.9**	**18.31**	**392**	**12,019**	**2.95**	**11.71**	**116.8**	**28.08**
Riverton (KS)	105	8,819	.22	4.61	118.1	20.84	125	11,769	2.30	11.08	117.2	27.59
Asbury (MO)	410	8,807	.23	4.60	100.3	17.66	267	12,136	3.25	12.00	116.6	28.30
Florida Power Corp	**5,259**	**12,684**	**.81**	**8.35**	**176.9**	**44.88**	**283**	**12,691**	**.79**	**9.29**	**181.9**	**46.16**
Crystal River (FL)	5,259	12,684	.81	8.35	176.9	44.88	283	12,691	.79	9.29	181.9	46.16
Fremont City of	**66**	**8,539**	**.31**	**4.95**	**81.1**	**13.85**	**125**	**8,668**	**.42**	**5.53**	**83.0**	**14.39**
Wright (NE)	66	8,539	.31	4.95	81.1	13.85	125	8,668	.42	5.53	83.0	14.39
Gainesville Regional Utilities	**560**	**13,096**	**.65**	**6.55**	**179.6**	**47.03**	**26**	**13,110**	**.73**	**6.16**	**191.4**	**50.18**
Deerhaven (FL)	560	13,096	.65	6.55	179.6	47.03	26	13,110	.73	6.16	191.4	50.18
Georgia Power Co	**19,203**	**12,098**	**1.77**	**10.18**	**188.3**	**45.56**	**7,895**	**11,317**	**1.34**	**8.95**	**154.4**	**34.95**
Arkwright (GA)	-	-	-	-	-	-	194	12,533	2.09	10.72	162.8	40.81
Atkinson-Mcdonough (GA)	957	11,916	2.10	10.04	180.2	42.94	514	12,127	1.83	9.62	149.2	36.18
Bowen (GA)	7,824	12,119	1.61	10.85	173.6	42.06	516	12,319	1.36	11.07	131.2	32.34
Hammond (GA)	1,113	13,023	1.63	9.71	179.6	46.78	891	12,571	1.72	9.99	154.6	38.87
Harllee Branch (GA)	1,954	12,649	1.06	9.56	190.1	48.10	2,046	12,279	1.44	9.98	161.0	39.55
Mitchell (GA)	224	12,442	1.36	10.15	213.3	53.08	44	12,486	1.38	9.90	186.5	46.58
Yates (GA)	1,475	12,064	2.17	10.22	191.6	46.23	1,202	12,098	1.83	10.13	155.1	37.52
Wansley (GA)	3,675	11,352	2.87	9.06	200.3	45.47	946	10,118	1.41	9.22	151.2	30.60
Scherer (GA)	1,981	12,409	.69	10.55	226.5	56.22	1,541	8,650	.31	4.69	154.0	26.64
Grand Haven City of	**88**	**10,969**	**2.66**	**10.46**	**165.4**	**36.29**	**111**	**11,224**	**2.85**	**10.93**	**144.9**	**32.54**
J B Simms (MI)	88	10,969	2.66	10.46	165.4	36.29	111	11,224	2.85	10.93	144.9	32.54
Grand Island City of	**44**	**8,407**	**.36**	**5.72**	**66.4**	**11.16**	**239**	**8,395**	**.36**	**5.94**	**68.8**	**11.55**
Platte (NE)	44	8,407	.36	5.72	66.4	11.16	239	8,395	.36	5.94	68.8	11.55
Grand River Dam Authority	**3,046**	**8,586**	**.53**	**5.06**	**102.6**	**17.62**	**419**	**8,956**	**.32**	**4.95**	**92.8**	**16.62**
GRDA No 1 (OK)	3,046	8,586	.53	5.06	102.6	17.62	419	8,956	.32	4.95	92.8	16.62
Gulf Power Co	**1,928**	**12,039**	**2.75**	**8.76**	**214.9**	**51.74**	**1,085**	**12,081**	**2.87**	**7.71**	**144.7**	**34.96**
Crist (FL)	1,387	12,046	2.76	8.71	213.8	51.51	721	12,014	2.89	7.49	139.8	33.60
Scholtz (FL)	-	-	-	-	-	-	236	12,347	2.78	8.35	159.9	39.49
Smith (FL)	541	12,021	2.73	8.88	217.7	52.35	128	11,969	2.87	7.78	143.2	34.28
Gulf States Utilities Co	**2,059**	**8,805**	**.49**	**5.86**	**192.6**	**33.91**	**-**	**-**	**-**	**-**	**-**	**-**
Nelson (LA)	2,059	8,805	.49	5.86	192.6	33.91	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Hamilton City of	**96**	**12,351**	**0.65**	**10.09**	**157.5**	**38.90**	**-**	**-**	**-**	**-**	**-**	**-**
Hamilton (OH)	96	12,351	.65	10.09	157.5	38.90	-	-	-	-	-	-
Hastings City of	**187**	**8,682**	**.27**	**4.87**	**103.7**	**18.00**	**-**	**-**	**-**	**-**	**-**	**-**
Hastings (NE)	187	8,682	.27	4.87	103.7	18.00	-	-	-	-	-	-
Holland City of	**185**	**13,251**	**.82**	**5.98**	**172.9**	**45.82**	**-**	**-**	**-**	**-**	**-**	**-**
James De Young (MI)	185	13,251	.82	5.98	172.9	45.82	-	-	-	-	-	-
Holyoke Water Power Co	**-**	**-**	**-**	**-**	**-**	**-**	**405**	**13,055**	**1.38**	**6.55**	**177.2**	**46.26**
Mount Tom (MA)	-	-	-	-	-	-	405	13,055	1.38	6.55	177.2	46.26
Hoosier Energy R E C Inc	**2,636**	**11,044**	**3.69**	**11.52**	**123.4**	**27.26**	**115**	**10,901**	**3.20**	**12.19**	**101.8**	**22.19**
Frank E Ratts (IN)	638	11,158	3.09	10.02	131.9	29.44	-	-	-	-	-	-
Merom (IN)	1,998	11,008	3.88	12.00	120.7	26.57	115	10,901	3.20	12.19	101.8	22.19
Houston Lighting & Power Co	**16,453**	**7,619**	**.64**	**10.33**	**200.5**	**30.56**	**-**	**-**	**-**	**-**	**-**	**-**
Limestone (TX)	7,392	6,584	.92	16.43	148.4	19.55	-	-	-	-	-	-
Parish (TX)	9,061	8,463	.41	5.35	233.6	39.54	-	-	-	-	-	-
Illinois Power Co	**5,836**	**11,106**	**2.68**	**9.91**	**149.1**	**33.11**	**468**	**11,667**	**.82**	**8.41**	**157.3**	**36.70**
Baldwin (IL)	3,995	10,919	3.06	10.38	147.6	32.23	-	-	-	-	-	-
Havana (IL)	211	12,695	.70	8.48	160.1	40.65	285	12,335	.64	8.43	156.4	38.59
Hennepin (IL)	585	10,600	2.89	10.64	147.3	31.22	103	9,642	1.51	6.31	153.7	29.64
Vermilion (IL)	387	10,695	2.47	11.81	122.5	26.21	-	-	-	-	-	-
Wood River (IL)	658	12,426	.90	5.76	168.1	41.78	80	11,911	.57	11.04	164.2	39.12
Independence City of	**30**	**12,153**	**3.23**	**11.83**	**158.1**	**38.42**	**-**	**-**	**-**	**-**	**-**	**-**
Blue Valley (MO)	30	12,153	3.23	11.83	158.1	38.42	-	-	-	-	-	-
Indiana Michigan Power Co	**11,220**	**9,216**	**.71**	**5.99**	**136.2**	**25.11**	**1,612**	**9,287**	**.94**	**5.83**	**115.2**	**21.40**
Breed (IN)	500	10,773	3.81	11.17	148.4	31.98	-	-	-	-	-	-
Tanners Creek (IN)	1,946	11,722	1.66	9.09	181.4	42.53	432	11,136	2.64	8.47	111.8	24.91
Rockport (IN)	8,773	8,571	.33	5.00	121.7	20.85	1,180	8,611	.31	4.86	116.8	20.12
Indiana-Kentucky Electric Corp	**3,314**	**11,520**	**3.48**	**11.32**	**104.5**	**24.08**	**1,088**	**10,923**	**3.17**	**9.94**	**101.9**	**22.26**
Clifty Creek (IN)	3,314	11,520	3.48	11.32	104.5	24.08	1,088	10,923	3.17	9.94	101.9	22.26
Indianapolis Power & Light Co	**5,592**	**11,211**	**2.31**	**7.88**	**109.4**	**24.53**	**381**	**11,331**	**2.19**	**8.30**	**84.4**	**19.13**
Stout (IN)	1,304	11,168	1.56	8.09	130.1	29.05	2	13,283	.84	5.99	110.0	29.22
Pritchard (IN)	295	11,331	1.42	6.98	119.3	27.03	-	-	-	-	-	-
Petersburg (IN)	3,993	11,216	2.62	7.88	101.9	22.87	379	11,321	2.20	8.32	84.3	19.08
Interstate Power Co	**1,366**	**9,664**	**1.23**	**6.78**	**182.7**	**35.32**	**59**	**10,992**	**1.96**	**9.50**	**163.8**	**36.00**
Dubuque (IA)	131	10,994	2.86	8.91	191.5	42.12	-	-	-	-	-	-
Lansing (IA)	745	8,441	.44	4.90	224.5	37.90	-	-	-	-	-	-
Kapp (IA)	490	11,169	2.01	9.06	132.4	29.57	-	-	-	-	-	-
Fox Lake (MN)	-	-	-	-	-	-	59	10,992	1.96	9.50	163.8	36.00
Iowa Electric Light & Power Co	**66**	**10,128**	**3.33**	**11.76**	**163.7**	**33.17**	**625**	**10,474**	**1.53**	**7.59**	**140.9**	**29.52**
6th St (IA)	-	-	-	-	-	-	84	11,099	2.13	9.24	156.8	34.80
Praire Creek (IA)	52	10,141	3.33	11.65	166.1	33.69	324	10,623	1.84	8.14	148.9	31.63
Sutherland (IA)	14	10,077	3.34	12.14	154.8	31.21	217	10,010	.84	6.13	121.5	24.33
Iowa Power & Light Co	**1,939**	**8,324**	**.35**	**4.68**	**109.4**	**18.22**	**1,254**	**8,289**	**.31**	**4.60**	**79.0**	**13.09**
Council Bluffs (IA)	1,939	8,324	.35	4.68	109.4	18.22	1,254	8,289	.31	4.60	79.0	13.09
Iowa Public Service Co	**2,151**	**8,755**	**.39**	**5.89**	**89.1**	**15.61**	**2,772**	**8,641**	**.39**	**5.87**	**80.5**	**13.91**
George Neal 1-4 (IA)	2,151	8,755	.39	5.89	89.1	15.61	2,772	8,641	.39	5.87	80.5	13.91
Iowa Southern Utilities Co	**1,997**	**8,765**	**.70**	**6.17**	**109.9**	**19.26**	**571**	**8,593**	**.60**	**6.23**	**90.8**	**15.60**
Burlington (IA)	276	11,079	2.91	9.55	120.6	26.73	71	10,114	2.37	9.02	109.8	22.21
Ottumwa (IA)	1,721	8,395	.34	5.63	107.6	18.06	500	8,377	.35	5.83	87.5	14.66

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Iowa-Illinois Gas&Electric Co	**1,998**	**8,692**	**0.62**	**6.35**	**112.9**	**19.62**	**12**	**8,418**	**0.34**	**5.30**	**108.3**	**18.23**
Riverside (IA)	233	10,796	2.69	12.66	127.5	27.54	-	-	-	-	-	-
Louisa (IA)	1,765	8,414	.35	5.51	110.4	18.57	12	8,418	.34	5.30	108.3	18.23
Jacksonville Electric Auth	**2,229**	**12,290**	**.93**	**9.29**	**183.7**	**45.16**	**1,226**	**12,420**	**.97**	**8.73**	**163.2**	**40.54**
St Johns River (FL)	2,229	12,290	.93	9.29	183.7	45.16	1,226	12,420	.97	8.73	163.2	40.54
Jamestown City of	**-**	**-**	**-**	**-**	**-**	**-**	**122**	**12,624**	**1.85**	**10.40**	**144.7**	**36.53**
Samuel A Carlson (NY)	-	-	-	-	-	-	122	12,624	1.85	10.40	144.7	36.53
Kansas City City of	**1,034**	**9,013**	**.91**	**6.49**	**138.1**	**24.90**	**241**	**10,514**	**.43**	**8.43**	**126.4**	**26.58**
Kaw (KS)	76	11,504	2.74	11.90	230.1	52.94	-	-	-	-	-	-
Quindaro (KS)	159	11,520	2.72	11.64	223.7	51.55	241	10,514	.43	8.43	126.4	26.58
Nearman (KS)	799	8,276	.37	4.95	102.2	16.92	-	-	-	-	-	-
Kansas City Power & Light Co	**5,154**	**8,698**	**.32**	**5.06**	**95.5**	**16.61**	**3,824**	**9,298**	**1.09**	**6.30**	**104.5**	**19.42**
La Cygne (KS)	1,715	8,498	.35	5.03	108.0	18.36	2,271	9,884	1.59	7.11	108.4	21.43
Hawthorne (MO)	1,132	8,808	.21	4.85	97.1	17.10	168	8,584	.28	4.87	75.3	12.92
Montrose (MO)	11	8,742	.36	5.10	119.9	20.96	1,328	8,428	.39	5.14	101.8	17.16
Iatan (MO)	2,295	8,792	.36	5.18	85.5	15.04	57	8,331	.43	5.54	68.0	11.34
Kansas Power & Light Co	**9,230**	**8,771**	**.36**	**5.52**	**133.0**	**23.34**	**-**	**-**	**-**	**-**	**-**	**-**
Lawrence (KS)	1,338	10,582	.45	9.30	129.1	27.33	-	-	-	-	-	-
Tecumseh (KS)	400	10,445	.46	8.53	130.9	27.35	-	-	-	-	-	-
Jeffrey Energy Cnt (KS)	7,491	8,358	.34	4.69	134.1	22.41	-	-	-	-	-	-
Kentucky Power Co	**1,957**	**11,981**	**1.07**	**12.12**	**128.3**	**30.75**	**778**	**11,989**	**1.10**	**10.72**	**108.0**	**25.91**
Big Sandy (KY)	1,957	11,981	1.07	12.12	128.3	30.75	778	11,989	1.10	10.72	108.0	25.91
Kentucky Utilities Co	**2,774**	**12,500**	**1.44**	**9.66**	**135.8**	**33.96**	**3,760**	**11,919**	**1.59**	**9.93**	**118.7**	**28.30**
Brown (KY)	1,022	12,238	1.98	12.20	113.5	27.77	677	11,928	2.05	9.55	124.5	29.70
Ghent (KY)	1,689	12,689	1.08	8.17	149.8	38.02	2,635	11,946	1.40	10.23	118.7	28.36
Green River (KY)	64	11,717	2.02	8.31	109.7	25.70	392	11,693	2.14	8.43	106.8	24.97
Tyrone (KY)	-	-	-	-	-	-	56	12,109	.85	10.80	131.6	31.87
Lakeland City of	**902**	**12,242**	**1.09**	**10.48**	**208.4**	**51.02**	**-**	**-**	**-**	**-**	**-**	**-**
Plant 3-Mcintosh (FL)	902	12,242	1.09	10.48	208.4	51.02	-	-	-	-	-	-
Lansing City of	**704**	**13,019**	**.84**	**7.00**	**183.8**	**47.86**	**439**	**13,045**	**.86**	**7.08**	**177.9**	**46.41**
Eckert (MI)	382	13,028	.85	7.28	188.8	49.19	199	13,038	.85	7.10	177.3	46.22
Erickson (MI)	322	13,008	.84	6.66	177.9	46.28	240	13,051	.87	7.07	178.4	46.57
Los Angeles City of	**3,769**	**11,639**	**.50**	**8.43**	**153.2**	**35.65**	**1,052**	**11,927**	**.56**	**7.73**	**110.9**	**26.46**
Intermountain (UT)	3,769	11,639	.50	8.43	153.2	35.65	1,052	11,927	.56	7.73	110.9	26.46
Louisville Gas & Electric Co	**4,562**	**11,516**	**3.05**	**10.00**	**113.6**	**26.16**	**842**	**11,362**	**2.92**	**9.63**	**103.4**	**23.51**
Cane Run (KY)	869	11,438	2.94	10.16	123.5	28.24	353	11,365	2.86	9.11	107.1	24.34
Mill Creek (KY)	3,385	11,537	3.10	10.02	112.6	25.98	473	11,365	2.96	9.94	100.8	22.90
Trimble County (KY)	308	11,495	2.80	9.30	96.9	22.27	16	11,232	3.15	11.67	102.2	22.97
Lower Colorado River Authority	**4,504**	**8,668**	**.41**	**5.41**	**131.4**	**22.78**	**1,173**	**8,384**	**.37**	**5.90**	**113.2**	**18.98**
S Seymour-Fayette (TX)	4,504	8,668	.41	5.41	131.4	22.78	1,173	8,384	.37	5.90	113.2	18.98
Madison Gas & Electric Co	**91**	**12,076**	**2.19**	**8.02**	**164.1**	**39.63**	**9**	**12,763**	**.82**	**8.20**	**187.7**	**47.91**
Blount (WI)	91	12,076	2.19	8.02	164.1	39.63	9	12,763	.82	8.20	187.7	47.91
Manitowoc City of	**10**	**13,093**	**.74**	**7.40**	**185.5**	**48.58**	**120**	**13,169**	**.86**	**7.38**	**185.6**	**48.89**
Manitowoc (WI)	10	13,093	.74	7.40	185.5	48.58	120	13,169	.86	7.38	185.6	48.89
Marquette City of	**127**	**9,462**	**.62**	**6.95**	**180.2**	**34.10**	**13**	**8,767**	**.41**	**6.26**	**180.7**	**31.68**
Shiras (MI)	127	9,462	.62	6.95	180.2	34.10	13	8,767	.41	6.26	180.7	31.68
Metropolitan Edison Co	**1,183**	**13,261**	**1.77**	**7.14**	**164.7**	**43.69**	**213**	**13,129**	**1.75**	**7.56**	**176.7**	**46.40**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Metropolitan Edison Co												
Portland (PA)	717	13,241	1.93	7.43	160.8	42.59	141	13,205	1.91	7.19	176.9	46.73
Titus (PA)	466	13,292	1.53	6.69	170.7	45.39	72	12,980	1.43	8.30	176.3	45.76
Michigan South Central Pwr Agy	**143**	**11,733**	**3.39**	**10.04**	**204.0**	**47.87**	**-**	**-**	**-**	**-**	**-**	**-**
Project I (MI)	143	11,733	3.39	10.04	204.0	47.87	-	-	-	-	-	-
Minnesota Power & Light Co	**3,187**	**8,710**	**.71**	**9.80**	**143.2**	**24.95**	**850**	**8,760**	**.70**	**9.41**	**107.3**	**18.80**
Aurora-Syl Laskin (MN)	29	8,726	.71	9.58	178.0	31.07	15	10,761	.51	7.71	173.1	37.25
Boswell (MN)	3,158	8,710	.71	9.80	142.9	24.89	835	8,723	.71	9.44	105.8	18.46
Minnkota Power Coop Inc	**4,100**	**6,850**	**1.01**	**7.95**	**47.0**	**6.44**	**-**	**-**	**-**	**-**	**-**	**-**
Young (ND)	4,100	6,850	1.01	7.95	47.0	6.44	-	-	-	-	-	-
Mississippi Power Co	**2,231**	**12,776**	**1.55**	**7.56**	**160.1**	**40.90**	**915**	**12,074**	**2.43**	**7.52**	**146.0**	**35.25**
Watson (MS)	1,009	12,509	2.55	8.30	152.5	38.15	915	12,074	2.43	7.52	146.0	35.25
Daniel (MS)	1,222	12,996	.72	6.95	166.1	43.17	-	-	-	-	-	-
Missouri Public Service Comm	**595**	**11,007**	**3.17**	**10.05**	**174.1**	**38.33**	**262**	**11,192**	**2.67**	**9.20**	**135.8**	**30.40**
Sibley (MO)	595	11,007	3.17	10.05	174.1	38.33	262	11,192	2.67	9.20	135.8	30.40
Monongahela Power Co	**9,968**	**12,755**	**2.74**	**9.69**	**136.2**	**34.74**	**2,206**	**12,618**	**2.58**	**10.15**	**111.5**	**28.14**
Albright (WV)	335	12,494	1.70	12.67	115.1	28.76	282	12,360	1.54	12.44	106.1	26.23
Ft Martin (WV)	2,265	12,612	1.86	10.81	151.7	38.27	147	12,259	1.34	12.65	118.9	29.15
Harrison (WV)	4,390	13,100	3.11	7.83	142.6	37.37	571	13,148	3.06	7.86	106.9	28.12
Rivesville (WV)	42	12,717	.96	9.13	134.0	34.08	178	12,224	.98	12.79	134.3	32.83
Willow Island (WV)	246	12,451	1.36	10.58	126.4	31.48	164	12,396	1.45	9.55	134.8	33.43
Pleasants (WV)	2,690	12,372	3.18	11.34	115.3	28.53	863	12,537	3.37	10.06	106.3	26.64
Montana Power Co	**9,343**	**8,602**	**.63**	**8.85**	**66.3**	**11.42**	**-**	**-**	**-**	**-**	**-**	**-**
Corette (MT)	545	8,727	.60	7.62	70.8	12.37	-	-	-	-	-	-
Colstrip (MT)	8,798	8,595	.64	8.93	66.1	11.36	-	-	-	-	-	-
Montana-Dakota Utilities Co	**2,332**	**6,913**	**1.00**	**8.33**	**81.3**	**11.24**	**-**	**-**	**-**	**-**	**-**	**-**
Heskett (ND)	416	7,084	.88	8.65	103.4	14.65	-	-	-	-	-	-
Lewis and Clark (MT)	176	6,557	.52	8.28	109.9	14.42	-	-	-	-	-	-
Coyote (ND)	1,740	6,908	1.08	8.26	73.1	10.11	-	-	-	-	-	-
Montaup Electric Co	**411**	**13,096**	**1.15**	**7.16**	**181.5**	**47.53**	**-**	**-**	**-**	**-**	**-**	**-**
Somerset (MA)	411	13,096	1.15	7.16	181.5	47.53	-	-	-	-	-	-
Muscatine City of	**530**	**11,208**	**3.13**	**7.10**	**192.0**	**43.03**	**-**	**-**	**-**	**-**	**-**	**-**
Muscatine (IA)	530	11,208	3.13	7.10	192.0	43.03	-	-	-	-	-	-
Nebraska Public Power District	**3,822**	**8,798**	**.37**	**5.18**	**82.0**	**14.43**	**9**	**11,484**	**.48**	**4.91**	**112.2**	**25.77**
Sheldon (NE)	584	8,805	.39	5.15	78.8	13.88	9	11,484	.48	4.91	112.2	25.77
Gerald Gentleman (NE)	3,238	8,797	.37	5.18	82.6	14.53	-	-	-	-	-	-
Nevada Power Co	**1,878**	**11,898**	**.63**	**9.88**	**177.7**	**42.30**	**8**	**11,593**	**.72**	**11.40**	**149.5**	**34.66**
Gardner (NV)	1,878	11,898	.63	9.88	177.7	42.30	8	11,593	.72	11.40	149.5	34.66
New England Power Co	**2,476**	**13,040**	**1.27**	**8.46**	**168.6**	**43.97**	**828**	**13,116**	**1.08**	**7.21**	**181.8**	**47.69**
Brayton (MA)	2,072	13,003	1.29	8.61	168.3	43.76	349	13,198	.96	7.43	179.8	47.47
Salem Harbor (MA)	404	13,228	1.20	7.67	170.2	45.02	479	13,056	1.16	7.04	183.3	47.86
New York State Elec & Gas Corp	**2,116**	**13,047**	**2.54**	**8.61**	**144.8**	**37.79**	**2,402**	**12,004**	**1.76**	**13.85**	**160.9**	**38.64**
Goudey (NY)	13	12,255	1.75	11.51	156.3	38.30	374	12,720	1.83	9.60	159.2	40.49
Greenidge (NY)	28	12,150	1.84	11.55	155.4	37.76	452	12,361	2.00	11.95	158.9	39.28
Hickling (NY)	-	-	-	-	-	-	381	10,748	1.22	20.31	153.4	32.98
Jennison (NY)	-	-	-	-	-	-	267	10,772	1.05	21.70	178.7	38.50
Milliken (NY)	152	12,095	1.87	12.24	159.9	38.69	830	12,327	1.95	12.03	164.2	40.48
Somerset (NY)	1,923	13,141	2.61	8.26	143.5	37.71	97	13,156	2.90	7.46	134.6	35.41

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Niagara Mohawk Power Corp	**2,931**	**13,135**	**1.96**	**7.22**	**150.5**	**39.53**	**563**	**13,045**	**2.12**	**7.62**	**147.1**	**38.38**
Huntley (NY)	1,771	13,147	1.80	7.17	155.0	40.75	181	13,007	1.72	7.65	157.4	40.94
Dunkirk (NY)	1,160	13,116	2.20	7.29	143.6	37.67	382	13,062	2.31	7.61	142.3	37.17
Northern Indiana Pub Serv Co	**3,680**	**11,107**	**2.10**	**8.65**	**182.1**	**40.44**	**2,756**	**10,655**	**1.57**	**8.08**	**135.9**	**28.97**
Bailly (IN)	380	11,058	3.20	10.25	153.1	33.85	760	11,253	2.84	11.10	125.3	28.20
Mitchell (IN)	92	11,142	.57	5.40	186.7	41.60	873	10,058	.49	6.51	144.4	29.05
Michigan City (IN)	537	11,070	1.75	7.76	168.0	37.18	589	11,523	2.56	9.42	130.9	30.18
Rollin Schahfer (IN)	2,670	11,120	2.07	8.72	188.8	42.00	534	9,823	.43	4.86	145.5	28.58
Northern States Power Co	**12,221**	**8,776**	**.44**	**6.91**	**121.2**	**21.27**	**-**	**-**	**-**	**-**	**-**	**-**
Black Dog (MN)	534	8,820	.31	5.46	133.4	23.53	-	-	-	-	-	-
High Bridge (MN)	563	8,824	.27	4.86	108.4	19.14	-	-	-	-	-	-
King (MN)	1,605	8,820	.41	6.27	127.6	22.51	-	-	-	-	-	-
Riverside (MN)	1,032	8,823	.26	4.79	103.1	18.19	-	-	-	-	-	-
Sherburne County (MN)	8,488	8,756	.48	7.51	122.2	21.40	-	-	-	-	-	-
Ohio Edison Co	**4,221**	**12,364**	**1.63**	**11.06**	**142.3**	**35.19**	**3,632**	**11,890**	**2.61**	**11.80**	**112.3**	**26.71**
Edgewater (OH)	-	-	-	-	-	-	236	11,868	1.85	10.40	135.7	32.20
Gorge Steam (OH)	-	-	-	-	-	-	107	12,407	2.21	8.14	133.8	33.21
Niles (OH)	-	-	-	-	-	-	535	11,836	2.88	11.24	109.2	25.86
Burger (OH)	410	11,990	2.64	11.99	149.3	35.80	895	11,781	3.17	12.06	102.9	24.23
Sammis (OH)	3,799	12,405	1.52	10.95	141.6	35.13	1,554	11,975	2.05	12.14	115.4	27.65
Toronto (OH)	12	11,985	2.88	13.99	136.3	32.66	305	11,704	4.10	12.72	103.4	24.21
Ohio Power Co	**13,799**	**11,546**	**3.27**	**13.32**	**177.1**	**40.89**	**833**	**12,013**	**2.84**	**11.44**	**116.7**	**28.03**
Muskingum (OH)	3,052	11,427	4.42	12.35	174.1	39.79	235	11,908	.81	11.18	159.5	37.98
Tidd (OH)	11	12,205	3.21	11.52	129.6	31.64	-	-	-	-	-	-
Kammer (WV)	1,529	12,154	4.33	13.10	140.9	34.26	422	12,229	4.01	11.43	89.5	21.88
Mitchell (WV)	2,909	11,890	1.32	16.17	182.4	43.37	54	12,737	1.18	10.42	154.0	39.22
Gavin (OH)	6,299	11,297	3.35	12.52	185.5	41.91	123	11,157	3.41	12.38	113.1	25.23
Ohio Valley Electric Corp	**2,333**	**12,172**	**3.91**	**10.19**	**131.0**	**31.89**	**1,177**	**11,241**	**3.57**	**11.86**	**101.1**	**22.72**
Kyger Creek (OH)	2,333	12,172	3.91	10.19	131.0	31.89	1,177	11,241	3.57	11.86	101.1	22.72
Oklahoma Gas & Electric Co	**5,698**	**8,809**	**.37**	**5.10**	**139.9**	**24.65**	**850**	**10,740**	**.92**	**7.57**	**131.5**	**28.24**
Muskogee (OK)	2,863	8,808	.37	5.12	139.5	24.58	625	10,497	.81	6.58	126.2	26.50
Sooner (OK)	2,836	8,810	.37	5.09	140.3	24.71	226	11,411	1.24	10.30	144.9	33.06
Omaha Public Power District	**2,029**	**8,242**	**.33**	**4.78**	**65.5**	**10.80**	**1,419**	**8,369**	**.35**	**4.88**	**65.9**	**11.03**
North Omaha (NE)	134	8,239	.32	4.74	65.4	10.77	1,396	8,364	.36	4.87	65.9	11.03
Nebraska City (NE)	1,895	8,242	.33	4.79	65.5	10.80	23	8,673	.31	5.05	63.5	11.02
Orange & Rockland Utils Inc	**642**	**13,109**	**.56**	**7.01**	**215.4**	**56.47**	**45**	**12,996**	**.62**	**7.52**	**203.6**	**52.91**
Lovett (NY)	642	13,109	.56	7.01	215.4	56.47	45	12,996	.62	7.52	203.6	52.91
Orlando Utilities Comm	**996**	**12,732**	**.80**	**9.52**	**189.7**	**48.30**	**-**	**-**	**-**	**-**	**-**	**-**
Stanton Energy (FL)	996	12,732	.80	9.52	189.7	48.30	-	-	-	-	-	-
Otter Tail Power Co	**2,097**	**6,127**	**.89**	**8.40**	**114.9**	**14.08**	**156**	**9,219**	**.39**	**4.41**	**124.8**	**23.02**
Hoot Lake (MN)	30	9,285	.31	3.97	128.9	23.94	145	9,247	.39	4.35	125.7	23.24
Big Stone (SD)	2,067	6,081	.90	8.46	114.6	13.93	11	8,849	.36	5.20	113.7	20.13
Owensboro City of	**1,003**	**10,669**	**2.97**	**12.37**	**110.2**	**23.52**	**-**	**-**	**-**	**-**	**-**	**-**
Smith (KY)	1,003	10,669	2.97	12.37	110.2	23.52	-	-	-	-	-	-
PacifiCorp	**24,288**	**9,652**	**.62**	**10.87**	**102.5**	**19.79**	**4,702**	**8,841**	**.43**	**8.36**	**75.7**	**13.38**
Carbon (UT)	-	-	-	-	-	-	585	11,951	.56	8.95	92.6	22.13
Centralia (WA)	4,688	8,100	.73	15.32	160.0	25.93	356	8,597	.31	5.41	127.5	21.92
Johnston (WY)	1,151	7,526	.47	11.53	67.1	10.10	2,890	8,034	.38	8.31	60.5	9.72
Naughton (WY)	2,518	9,599	.86	6.12	116.9	22.43	-	-	-	-	-	-
Wyodak (WY)	1,945	8,021	.65	7.62	61.2	9.82	-	-	-	-	-	-
Emery-Hunter (UT)	4,267	11,380	.48	11.40	75.4	17.16	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
PacifiCorp												
Jim Bridger (WY)	6,887	9,688	0.62	9.48	107.7	20.87	871	9,531	0.57	9.32	84.7	16.15
Huntington (UT)	2,832	11,565	.47	12.28	83.8	19.38	-	-	-	-	-	-
Painesville City of	**88**	**12,211**	**2.85**	**9.37**	**138.2**	**33.76**	**-**	**-**	**-**	**-**	**-**	**-**
Painesville (OH)	88	12,211	2.85	9.37	138.2	33.76	-	-	-	-	-	-
Pennsylvania Electric Co	**12,577**	**12,029**	**1.82**	**16.10**	**149.1**	**35.87**	**5,343**	**12,214**	**1.78**	**13.18**	**136.7**	**33.39**
Conemaugh (PA)	2,917	12,321	2.23	15.26	174.3	42.96	1,933	12,383	2.18	13.20	127.0	31.45
Front St (PA)	-	-	-	-	-	-	205	12,329	1.89	10.00	146.1	36.01
Homer City (PA)	4,251	11,578	1.75	18.98	147.4	34.12	1,727	12,023	1.25	13.86	154.6	37.18
Seward (PA)	-	-	-	-	-	-	537	12,039	1.56	13.33	129.3	31.13
Shawville (PA)	1,250	12,129	1.92	13.65	115.6	28.03	356	12,129	1.94	13.74	128.7	31.22
Warren (PA)	93	12,473	1.89	9.59	134.3	33.50	150	12,342	1.83	10.51	137.4	33.91
Keystone (PA)	4,066	12,250	1.56	14.60	143.1	35.06	435	12,404	2.16	12.24	121.5	30.15
Pennsylvania Power & Light Co	**7,873**	**12,246**	**1.89**	**14.49**	**180.0**	**44.09**	**2,560**	**11,854**	**1.71**	**15.83**	**142.0**	**33.65**
Brunner Island (PA)	3,720	12,383	1.96	13.91	185.0	45.81	210	12,956	1.82	10.28	148.8	38.55
Holtwood (PA)	79	7,683	.72	33.82	107.3	16.49	220	8,628	.64	28.86	113.9	19.66
Martins Creek (PA)	331	12,536	2.09	13.10	201.1	50.42	407	13,003	1.85	9.16	156.4	40.68
Montour (PA)	3,261	12,441	1.86	13.68	179.2	44.59	1,102	12,549	1.96	13.24	147.5	37.02
Sunbury (PA)	482	10,406	1.56	22.32	132.5	27.59	621	10,637	1.53	22.04	124.0	26.39
Pennsylvania Power Co	**6,353**	**12,082**	**4.04**	**11.89**	**150.4**	**36.34**	**408**	**12,108**	**1.45**	**9.80**	**126.7**	**30.69**
New Castle (PA)	309	12,100	1.50	11.63	132.3	32.02	408	12,108	1.45	9.80	126.7	30.69
Bruce Mansfield (PA)	6,044	12,081	4.17	11.90	151.3	36.57	-	-	-	-	-	-
Philadelphia Electric Co	**670**	**13,072**	**1.51**	**7.45**	**165.5**	**43.28**	**132**	**13,066**	**1.57**	**7.34**	**177.2**	**46.31**
Cromby (PA)	165	13,061	1.37	6.93	163.7	42.76	20	12,857	1.41	7.30	175.5	45.13
Eddystone (PA)	505	13,075	1.55	7.62	166.1	43.45	112	13,104	1.60	7.35	177.5	46.53
Plains Elec Gen&Trans Coop Inc	**836**	**9,223**	**.65**	**17.19**	**131.4**	**24.24**	**-**	**-**	**-**	**-**	**-**	**-**
Escalante (NM)	836	9,223	.65	17.19	131.4	24.24	-	-	-	-	-	-
Platte River Power Authority	**1,089**	**8,778**	**.32**	**5.46**	**73.1**	**12.83**	**-**	**-**	**-**	**-**	**-**	**-**
Rawhide (CO)	1,089	8,778	.32	5.46	73.1	12.83	-	-	-	-	-	-
Portland General Electric Co	**968**	**8,348**	**.31**	**4.57**	**107.9**	**18.02**	**-**	**-**	**-**	**-**	**-**	**-**
Boardman (OR)	968	8,348	.31	4.57	107.9	18.02	-	-	-	-	-	-
Potomac Edison Co	**110**	**13,578**	**1.08**	**7.19**	**151.9**	**41.25**	**95**	**12,105**	**.95**	**12.92**	**150.8**	**36.52**
Smith (MD)	110	13,578	1.08	7.19	151.9	41.25	95	12,105	.95	12.92	150.8	36.52
Potomac Electric Power Co	**4,699**	**12,600**	**1.65**	**11.38**	**175.6**	**44.26**	**2,503**	**12,736**	**1.40**	**10.57**	**165.3**	**42.10**
Chalk (MD)	1,554	12,515	1.86	12.12	179.2	44.85	355	12,764	1.79	11.46	166.3	42.44
Dickerson (MD)	939	12,592	1.53	10.73	150.5	37.90	669	12,532	1.44	10.81	153.0	38.34
Morgantown (MD)	1,761	12,611	1.74	11.92	181.4	45.75	987	12,845	1.58	11.14	163.8	42.08
Potomac River (VA)	445	12,868	.83	8.01	193.3	49.74	492	12,773	.72	8.43	184.1	47.02
Public Service Co of Colorado	**6,451**	**9,184**	**.37**	**6.09**	**114.6**	**21.04**	**821**	**11,071**	**.43**	**10.67**	**109.7**	**24.30**
Arapahoe (CO)	118	10,527	.45	9.30	131.0	27.59	451	11,059	.43	10.64	111.6	24.69
Cameo (CO)	187	11,438	.58	8.87	96.0	21.97	5	11,907	.51	8.78	93.7	22.32
Cherokee (CO)	1,815	10,633	.43	8.76	118.2	25.14	-	-	-	-	-	-
Comanche (CO)	2,239	8,491	.32	4.79	116.4	19.77	-	-	-	-	-	-
Valmont (CO)	62	10,650	.54	8.39	109.5	23.32	364	11,074	.43	10.73	107.7	23.85
Pawnee (CO)	2,030	8,323	.34	4.61	109.6	18.24	-	-	-	-	-	-
Public Service Co of IN Inc	**11,066**	**10,839**	**2.39**	**10.36**	**152.8**	**33.12**	**2,520**	**11,069**	**2.27**	**9.52**	**116.8**	**25.87**
Cayuga (IN)	2,020	10,781	2.24	11.00	129.1	27.83	862	11,051	2.22	9.21	117.1	25.89
Edwardsport (IN)	-	-	-	-	-	-	101	10,662	2.66	12.05	116.6	24.86
Noblesville (IN)	-	-	-	-	-	-	40	11,264	1.98	6.77	130.8	29.47
Gallagher (IN)	1,003	10,951	2.34	9.02	136.2	29.82	87	11,050	2.44	10.01	120.1	26.53
Wabash River (IN)	535	10,823	2.14	10.81	141.0	30.52	1,096	10,960	2.05	10.03	119.4	26.17
Gibson Station (IN)	7,508	10,841	2.46	10.33	162.2	35.17	333	11,577	2.99	8.08	105.8	24.49

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Public Service Co of NH	**1,070**	**13,309**	**1.83**	**6.71**	**177.6**	**47.27**	**201**	**13,268**	**1.75**	**6.93**	**181.2**	**48.08**
Merrimack (NH)	843	13,372	2.12	6.91	174.3	46.61	128	13,310	2.15	7.31	176.3	46.93
Schiller (NH)	227	13,076	.72	5.98	190.1	49.72	73	13,194	1.06	6.26	189.8	50.09
Public Service Co of NM	**5,683**	**9,644**	**.80**	**22.03**	**170.4**	**32.87**	**-**	**-**	**-**	**-**	**-**	**-**
San Juan (NM)	5,683	9,644	.80	22.03	170.4	32.87	-	-	-	-	-	-
Public Service Co of Oklahoma	**3,150**	**8,798**	**.48**	**5.88**	**165.4**	**29.11**	**162**	**11,681**	**.56**	**10.95**	**145.5**	**33.99**
Northeastern (OK)	3,150	8,798	.48	5.88	165.4	29.11	162	11,681	.56	10.95	145.5	33.99
Public Service Electric&Gas Co	**1,810**	**13,624**	**.80**	**6.36**	**178.5**	**48.64**	**254**	**13,156**	**.82**	**7.76**	**185.9**	**48.90**
Hudson (NJ)	873	13,101	.80	8.16	179.5	47.03	227	13,062	.82	7.97	186.4	48.71
Mercer (NJ)	936	14,113	.80	4.67	177.7	50.15	27	13,937	.83	5.94	181.3	50.55
Richmond City of	**188**	**11,238**	**2.72**	**11.32**	**166.0**	**37.32**	**47**	**11,772**	**2.28**	**9.41**	**131.7**	**31.02**
Whitewater (IN)	188	11,238	2.72	11.32	166.0	37.32	47	11,772	2.28	9.41	131.7	31.02
Rochester City of	**64**	**12,096**	**1.61**	**7.29**	**175.3**	**42.40**	**1**	**10,579**	**2.41**	**11.47**	**113.6**	**24.04**
Silver Lake (MN)	64	12,096	1.61	7.29	175.3	42.40	1	10,579	2.41	11.47	113.6	24.04
Rochester Gas & Electric Corp	**612**	**13,196**	**2.12**	**7.11**	**161.5**	**42.62**	**201**	**13,136**	**2.11**	**7.50**	**158.1**	**41.54**
Rochester 3 (NY)	172	13,267	2.14	7.20	161.4	42.82	40	13,148	2.10	7.70	158.5	41.68
Rochester 7 (NY)	441	13,169	2.11	7.08	161.5	42.55	161	13,133	2.11	7.45	158.0	41.51
S Mississippi Elec Pwr Assn	**775**	**12,426**	**.97**	**9.01**	**203.5**	**50.57**	**-**	**-**	**-**	**-**	**-**	**-**
R D Morrow (MS)	775	12,426	.97	9.01	203.5	50.57	-	-	-	-	-	-
Salt River Proj Ag I & P Dist	**9,314**	**10,777**	**.48**	**9.89**	**121.1**	**26.10**	**-**	**-**	**-**	**-**	**-**	**-**
Navajo (AZ)	7,276	11,047	.48	8.64	100.6	22.23	-	-	-	-	-	-
Coronado (AZ)	2,038	9,816	.47	14.35	203.4	39.94	-	-	-	-	-	-
San Antonio City of	**2,655**	**8,376**	**.40**	**6.13**	**126.5**	**21.19**	**-**	**-**	**-**	**-**	**-**	**-**
J T Deely (TX)	2,655	8,376	.40	6.13	126.5	21.19	-	-	-	-	-	-
San Miguel Electric Coop Inc	**3,015**	**5,521**	**1.90**	**23.26**	**87.2**	**9.63**	**-**	**-**	**-**	**-**	**-**	**-**
San Miquel (TX)	3,015	5,521	1.90	23.26	87.2	9.63	-	-	-	-	-	-
Savannah Electric & Power Co	**-**	**-**	**-**	**-**	**-**	**-**	**790**	**12,675**	**1.04**	**9.22**	**169.6**	**43.00**
Port Wentworth (GA)	-	-	-	-	-	-	418	12,946	1.06	8.66	166.9	43.21
McIntosh (GA)	-	-	-	-	-	-	372	12,370	1.01	9.84	172.9	42.77
Seminole Electric Coop Inc	**2,824**	**12,132**	**2.91**	**8.54**	**206.9**	**50.21**	**320**	**11,991**	**2.71**	**9.85**	**184.0**	**44.13**
Seminole (FL)	2,824	12,132	2.91	8.54	206.9	50.21	320	11,991	2.71	9.85	184.0	44.13
Sierra Pacific Power Co	**1,420**	**10,575**	**.39**	**8.97**	**193.0**	**40.83**	**-**	**-**	**-**	**-**	**-**	**-**
North Valmy (NV)	1,420	10,575	.39	8.97	193.0	40.83	-	-	-	-	-	-
Sikeston City of	**375**	**11,359**	**2.67**	**11.91**	**176.0**	**39.99**	**276**	**11,339**	**2.57**	**12.07**	**113.5**	**25.73**
Sikeston (MO)	375	11,359	2.67	11.91	176.0	39.99	276	11,339	2.57	12.07	113.5	25.73
South Carolina Electric&Gas Co	**3,542**	**12,864**	**1.18**	**8.78**	**167.6**	**43.13**	**959**	**12,616**	**1.25**	**8.83**	**163.5**	**41.26**
Canadys (SC)	581	12,865	1.25	8.71	172.2	44.30	187	12,624	1.29	9.20	166.7	42.08
Mcmeekin (SC)	479	13,214	1.34	8.44	164.3	43.42	84	12,581	1.14	8.93	161.0	40.52
Urguhart (SC)	323	12,840	1.23	8.78	172.9	44.39	207	12,625	1.20	8.76	160.9	40.64
Wateree (SC)	1,291	12,827	1.09	8.65	166.8	42.79	482	12,615	1.27	8.71	163.9	41.34
Williams (SC)	869	12,737	1.13	9.22	165.7	42.21	-	-	-	-	-	-
South Carolina Pub Serv Auth	**3,152**	**12,358**	**1.21**	**9.97**	**189.2**	**46.76**	**1,217**	**12,892**	**1.20**	**8.57**	**150.7**	**38.86**
Cross (SC)	938	12,295	1.16	9.94	191.9	47.19	420	12,978	1.04	7.53	148.6	38.56
Grainger (SC)	-	-	-	-	-	-	210	12,973	1.93	10.92	161.6	41.92
Jefferies (SC)	615	12,166	1.60	10.90	184.6	44.91	56	12,524	1.63	9.49	146.9	36.80
Winyah (SC)	1,598	12,468	1.09	9.63	189.4	47.22	531	12,831	.99	8.37	148.5	38.11

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Southern California Edison Co	**4,171**	**10,959**	**0.53**	**10.08**	**120.6**	**26.43**	**-**	**-**	**-**	**-**	**-**	**-**
Mohave (NV)	4,171	10,959	.53	10.08	120.6	26.43	-	-	-	-	-	-
Southern Illinois Power Coop	**226**	**11,382**	**4.00**	**18.43**	**106.2**	**24.17**	**513**	**10,018**	**2.74**	**19.54**	**84.1**	**16.86**
Marion (IL)	226	11,382	4.00	18.43	106.2	24.17	513	10,018	2.74	19.54	84.1	16.86
Southern Indiana Gas & Elec Co	**2,410**	**11,302**	**3.08**	**8.24**	**151.1**	**34.15**	**220**	**11,191**	**2.75**	**8.03**	**113.0**	**25.29**
Culley (IN)	955	11,092	2.75	8.14	163.1	36.18	189	11,123	2.74	8.08	114.0	25.35
A B Brown (IN)	1,158	11,541	3.40	8.17	150.2	34.68	30	11,620	2.81	7.77	107.2	24.91
Warrick (IN)	297	11,046	2.87	8.79	115.8	25.59	-	-	-	-	-	-
Southwestern Electric Power Co	**9,450**	**7,871**	**.76**	**6.67**	**173.0**	**27.23**	**-**	**-**	**-**	**-**	**-**	**-**
Flint Creek (AR)	1,724	8,384	.33	4.78	152.3	25.53	-	-	-	-	-	-
Welsh Station (TX)	4,687	8,384	.33	4.76	206.8	34.67	-	-	-	-	-	-
Pirkey (TX)	3,039	6,789	1.66	10.70	123.1	16.72	-	-	-	-	-	-
Southwestern Public Service Co	**7,759**	**8,755**	**.38**	**5.17**	**175.6**	**30.75**	**507**	**8,678**	**.37**	**5.09**	**110.2**	**19.13**
Harrington (TX)	4,157	8,794	.38	5.23	155.6	27.36	-	-	-	-	-	-
Tolk (TX)	3,602	8,710	.37	5.09	198.9	34.65	507	8,678	.37	5.09	110.2	19.13
Springfield City of	**861**	**11,670**	**2.27**	**8.16**	**133.6**	**31.19**	**-**	**-**	**-**	**-**	**-**	**-**
James River (MO)	419	11,651	2.03	7.69	131.5	30.65	-	-	-	-	-	-
Southwest (MO)	442	11,688	2.50	8.60	135.6	31.70	-	-	-	-	-	-
Springfield City of	**922**	**10,399**	**2.94**	**9.32**	**133.7**	**27.81**	**-**	**-**	**-**	**-**	**-**	**-**
Dallman (IL)	858	10,399	2.94	9.31	133.7	27.80	-	-	-	-	-	-
Lakeside (IL)	64	10,387	2.96	9.46	134.6	27.95	-	-	-	-	-	-
St Joseph Light & Power Co	**-**	**-**	**-**	**-**	**-**	**-**	**172**	**11,622**	**3.25**	**12.09**	**133.0**	**30.92**
Lakeroad (MO)	-	-	-	-	-	-	172	11,622	3.25	12.09	133.0	30.92
Sunflower Electric Power Corp	**1,052**	**8,478**	**.33**	**4.95**	**97.3**	**16.50**	**-**	**-**	**-**	**-**	**-**	**-**
Holcomb (KS)	1,052	8,478	.33	4.95	97.3	16.50	-	-	-	-	-	-
Tampa Electric Co	**4,890**	**12,293**	**2.11**	**7.70**	**199.0**	**48.93**	**1,760**	**12,193**	**2.48**	**7.96**	**131.1**	**31.96**
Big Bend (FL)	4,332	12,227	2.24	7.84	194.5	47.56	1,760	12,193	2.48	7.96	131.1	31.96
Gannon (FL)	557	12,804	1.13	6.61	232.9	59.64	-	-	-	-	-	-
Tennessee Valley Authority	**27,412**	**11,710**	**2.58**	**11.40**	**129.0**	**30.22**	**9,464**	**11,892**	**1.88**	**9.79**	**122.6**	**29.16**
Colbert (AL)	769	11,654	1.92	11.76	121.6	28.33	1,244	11,785	1.46	9.94	122.8	28.93
Widows Creek (AL)	1,320	12,215	2.18	8.39	137.1	33.51	2,105	12,025	2.42	10.20	124.4	29.93
Paradise (KY)	6,874	10,898	4.34	16.71	104.4	22.75	307	10,814	3.68	13.73	100.6	21.76
Shawnee (KY)	1,612	12,000	1.08	10.38	134.2	32.22	1,198	11,908	1.46	10.47	123.6	29.44
Allen (TN)	1,250	11,934	2.06	8.09	118.1	28.18	291	11,368	1.90	7.99	119.6	27.18
Bull Run (TN)	2,467	11,683	.98	13.04	199.1	46.52	-	-	-	-	-	-
Cumberland (TN)	5,283	11,519	2.79	8.39	132.4	30.51	1,063	11,545	2.35	8.09	118.0	27.25
Gallatin (TN)	2,605	12,151	2.75	9.42	121.3	29.48	-	-	-	-	-	-
Sevier (TN)	1,656	12,884	1.67	9.45	128.3	33.06	406	12,451	1.91	11.89	117.9	29.35
Johnsonville (TN)	1,014	11,572	1.62	10.33	133.4	30.87	1,561	11,741	1.71	8.76	127.1	29.85
Kingston (TN)	2,561	12,623	1.39	9.16	123.6	31.19	1,290	12,431	1.16	9.83	123.7	30.76
Texas Municipal Power Agency	**3,548**	**4,693**	**1.41**	**26.62**	**151.2**	**14.19**	**75**	**6,995**	**1.06**	**13.23**	**127.2**	**17.80**
Gibbons Creek (TX)	3,548	4,693	1.41	26.62	151.2	14.19	75	6,995	1.06	13.23	127.2	17.80
Texas New Mexico Power Co	**565**	**6,821**	**1.02**	**15.21**	**134.8**	**18.39**	**-**	**-**	**-**	**-**	**-**	**-**
TNP One (Tx)	565	6,821	1.02	15.21	134.8	18.39	-	-	-	-	-	-
Texas Utilities Electric Co	**31,244**	**6,480**	**.81**	**15.17**	**94.7**	**12.27**	**-**	**-**	**-**	**-**	**-**	**-**
Big Brown (TX)	5,329	6,811	.72	14.22	93.4	12.72	-	-	-	-	-	-
Martin Lake (TX)	13,150	6,761	1.12	13.11	98.2	13.27	-	-	-	-	-	-
Monticello (TX)	12,112	6,034	.50	17.58	92.0	11.10	-	-	-	-	-	-
Sandow No 4 (TX)	653	6,408	1.12	19.93	80.1	10.26	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 42. Receipts and Average Delivered Cost of Coal by Type of Purchase, Company, and Plant, 1990 (Continued)

Company Plant (State)	Contract						Spot					
	Quantity (1000 short tons)	Average Quality			Average Delivered Cost		Quantity (1000 short tons)	Average Quality			Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)		Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cents per million Btu)	($ per short ton)
Toledo Edison Co	**1,285**	**13,111**	**1.20**	**6.87**	**195.9**	**51.37**	**24**	**12,993**	**0.66**	**7.71**	**161.9**	**42.08**
Acme (OH)	102	13,070	.74	7.54	168.9	44.15	24	12,993	.66	7.71	161.9	42.08
Bay Shore (OH)	1,183	13,114	1.24	6.81	198.3	52.00	-	-	-	-	-	-
Tucson Electric Power Co	**167**	**10,192**	**.49**	**13.03**	**283.0**	**57.69**	**-**	**-**	**-**	**-**	**-**	**-**
Irvington (AZ)	167	10,192	.49	13.03	283.0	57.69	-	-	-	-	-	-
Union Electric Co	**7,491**	**11,091**	**2.03**	**8.77**	**156.0**	**34.60**	**2,731**	**10,138**	**1.59**	**7.86**	**137.0**	**27.78**
Labadie (MO)	3,922	11,380	2.49	9.41	146.5	33.35	1,196	10,556	2.56	9.73	118.8	25.07
Meramec (MO)	62	11,500	1.27	12.00	134.6	30.95	571	11,794	1.28	7.21	208.5	49.18
Sioux (MO)	1,801	10,998	2.04	7.60	171.6	37.75	301	8,613	.66	6.41	112.6	19.40
Rush Island (MO)	1,706	10,510	1.00	8.40	163.1	34.29	663	8,650	.52	5.70	104.2	18.03
United Illuminating Co	**852**	**13,241**	**.53**	**6.30**	**215.8**	**57.14**	**102**	**13,166**	**.55**	**6.81**	**189.0**	**49.77**
Bridgeport Harbor (CT)	852	13,241	.53	6.30	215.8	57.14	102	13,166	.55	6.81	189.0	49.77
United Power Assn	**1,085**	**6,881**	**.94**	**8.64**	**100.7**	**13.86**	**-**	**-**	**-**	**-**	**-**	**-**
Stanton (ND)	1,085	6,881	.94	8.64	100.7	13.86	-	-	-	-	-	-
Vineland City of	**10**	**12,892**	**.70**	**7.16**	**215.1**	**55.46**	**-**	**-**	**-**	**-**	**-**	**-**
H M Down (NJ)	10	12,892	.70	7.16	215.1	55.46	-	-	-	-	-	-
Virginia Electric & Power Co	**6,899**	**12,693**	**1.37**	**10.67**	**154.0**	**39.09**	**2,746**	**12,272**	**1.39**	**12.63**	**137.1**	**33.66**
Bremo Bluff (VA)	174	12,714	.98	10.20	152.9	38.88	112	12,498	.77	10.37	145.5	36.37
Chesterfield (VA)	1,977	12,765	1.04	8.68	151.0	38.55	828	12,612	1.03	8.99	155.6	39.25
Chesapeake Energy (VA)	945	12,902	1.12	9.50	149.2	38.50	253	13,077	1.15	8.41	153.8	40.22
Possum Point (VA)	427	12,579	1.02	9.15	156.4	39.35	154	12,675	.83	9.19	150.5	38.14
Yorktown (VA)	428	13,013	1.26	8.26	151.1	39.33	100	13,031	1.55	8.06	157.5	41.04
Mount Storm (WV)	2,948	12,548	1.77	12.99	157.7	39.57	1,299	11,774	1.77	16.72	116.7	27.48
West Penn Power Co	**4,918**	**12,762**	**2.19**	**9.99**	**141.4**	**36.10**	**328**	**12,095**	**1.95**	**12.57**	**114.9**	**27.80**
Armstrong (PA)	594	12,471	1.77	10.89	130.8	32.63	311	12,095	1.89	12.59	115.7	27.98
Hatfield (PA)	3,719	12,878	2.19	9.47	145.3	37.42	-	-	-	-	-	-
Mitchell (PA)	605	12,331	2.63	12.30	127.2	31.38	17	12,089	3.08	12.22	101.3	24.48
West Texas Utilities Co	**2,362**	**8,310**	**.34**	**4.80**	**172.6**	**28.69**	**234**	**8,557**	**.35**	**5.01**	**130.5**	**22.34**
Oklaunion (TX)	2,362	8,310	.34	4.80	172.6	28.69	234	8,557	.35	5.01	130.5	22.34
Western Farmers Elec Coop Inc	**1,146**	**8,611**	**.45**	**5.45**	**198.4**	**34.17**	**-**	**-**	**-**	**-**	**-**	**-**
Hugo (OK)	1,146	8,611	.45	5.45	198.4	34.17	-	-	-	-	-	-
Wisconsin Electric Power Co	**8,246**	**10,041**	**.78**	**6.02**	**129.8**	**26.06**	**21**	**12,532**	**.51**	**11.25**	**172.7**	**43.29**
Presque Isle (MI)	1,412	10,440	.65	7.52	168.3	35.14	-	-	-	-	-	-
Oak Creek (WI)	1,737	12,831	1.70	7.08	151.7	38.93	21	12,532	.51	11.25	172.7	43.29
Port Washington (WI)	139	13,094	1.67	6.54	165.1	43.23	-	-	-	-	-	-
Valley (WI)	397	13,237	1.66	6.78	168.1	44.51	-	-	-	-	-	-
Pleasant Prairie (WI)	4,560	8,483	.36	5.08	95.5	16.21	-	-	-	-	-	-
Wisconsin Power & Light Co	**3,564**	**9,479**	**1.05**	**8.01**	**162.3**	**30.78**	**2,985**	**8,917**	**.36**	**5.31**	**109.1**	**19.46**
Edgewater (WI)	1,762	9,906	1.22	7.08	154.2	30.54	426	9,129	.36	5.26	113.6	20.73
Nelson Dewey (WI)	48	11,550	1.52	5.96	139.4	32.21	471	9,910	.37	4.46	129.6	25.68
Rock River (WI)	192	11,226	2.21	9.44	197.1	44.25	59	10,775	.73	4.59	159.0	34.27
Columbia (WI)	1,562	8,719	.70	8.95	168.3	29.35	2,029	8,588	.34	5.54	100.9	17.33
Wisconsin Public Service Corp	**1,678**	**9,942**	**1.03**	**6.97**	**180.1**	**35.82**	**465**	**10,022**	**.69**	**5.90**	**129.8**	**26.02**
Pulliam (WI)	561	11,087	2.09	9.39	202.6	44.93	98	12,786	1.50	8.14	161.2	41.24
Weston (WI)	1,117	9,367	.50	5.75	166.8	31.25	367	9,284	.47	5.30	118.3	21.96
Wyandotte Municipal Serv Comm	**139**	**13,179**	**.73**	**7.32**	**190.0**	**50.08**	**-**	**-**	**-**	**-**	**-**	**-**
Wyandotte (MI)	139	13,179	.73	7.32	190.0	50.08	-	-	-	-	-	-
Total	**648,604**	**10,287**	**1.32**	**9.92**	**149.4**	**30.74**	**138,023**	**11,301**	**1.45**	**9.55**	**128.8**	**29.11**

* = Number less than 0.05 rounded to zero.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Alabama Electric Coop Inc	**1,228**	**162.7**	**38.47**	**1.47**	**4**	**559.5**	**30.67**	**0.10**	**-**	**-**	**-**	**100**	*****	**-**
Lowman (AL)	1,228	162.7	38.47	1.47	4	559.5	30.67	.10	-	-	-	100	*	-
Alabama Power Co	**15,542**	**205.8**	**50.05**	**1.31**	**81**	**542.7**	**31.35**	**.42**	**2,581**	**215.6**	**2.22**	**99**	*****	**1**
Barry (AL)	800	207.7	51.97	.94	1	430.6	25.02	.27	679	190.8	1.97	97	*	3
Gadsden (AL)	112	206.1	52.24	1.88	1	661.0	38.47	.47	24	354.2	3.63	99	*	1
Gorgas 2 and 3 (AL)	5,539	175.7	41.87	1.37	30	529.7	30.58	.44	-	-	-	100	*	-
Greene (AL)	857	211.8	53.24	1.44	13	499.8	28.70	.39	-	-	-	100	*	-
Gaston (AL)	3,817	188.1	46.10	2.14	23	519.7	30.04	.38	-	-	-	100	*	-
James Miller (AL)	4,417	256.2	62.70	.55	14	650.5	37.80	.48	1,878	222.9	2.30	98	*	2
Alexandria City of	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**93**	**203.9**	**2.13**	**-**	**-**	**100**
Alexandria-Hunter (LA)	-	-	-	-	-	-	-	-	93	203.9	2.13	-	-	100
Ames City of	**193**	**126.5**	**22.26**	**.22**	**4**	**511.3**	**30.41**	**.30**	**-**	**-**	**-**	**99**	**1**	**-**
Ames (IA)	193	126.5	22.26	.22	4	511.3	30.41	.30	-	-	-	99	1	-
Appalachian Power Co	**11,760**	**159.8**	**39.74**	**.77**	**146**	**[2] 595.2**	**34.66**	**.00**	**-**	**-**	**-**	**100**	*****	**-**
Clinch River (VA)	1,614	137.6	34.28	.77	6	588.2	34.57	.00	-	-	-	100	*	-
Glen Lyn (VA)	539	170.1	43.04	.81	20	625.0	36.41	.00	-	-	-	99	1	-
Amos (WV)	6,222	166.9	41.46	.80	72	[2] 617.3	36.03	.00	-	-	-	100	*	-
Kanawha River (WV)	497	158.0	39.62	.77	7	596.0	34.47	.00	-	-	-	100	*	-
Mountaineer (WV)	2,887	155.2	38.50	.68	40	[2] 540.5	31.32	.00	-	-	-	100	*	-
Arizona Electric Pwr Coop Inc	**1,074**	**172.3**	**40.46**	**.41**	**-**	**-**	**-**	**-**	**1,899**	**220.8**	**2.28**	**93**	**-**	**7**
Apache (AZ)	1,074	172.3	40.46	.41	-	-	-	-	1,899	220.8	2.28	93	-	7
Arizona Public Service Co	**11,767**	**121.7**	**22.02**	**.71**	**51**	**480.1**	**28.52**	**.49**	**4,674**	**253.0**	**2.61**	**98**	*****	**2**
Cholla (AZ)	3,045	166.3	32.80	.46	39	545.0	31.84	.38	43	354.1	3.66	100	*	*
Ocotillo (AZ)	-	-	-	-	12	283.0	17.72	.83	1,477	220.6	2.28	-	5	95
Saguaro (AZ)	-	-	-	-	-	-	-	-	440	218.7	2.27	-	-	100
Yucca (AZ)	-	-	-	-	-	-	-	-	2,041	272.9	2.81	-	-	100
Four Corners (NM)	8,722	104.2	18.26	.80	-	-	-	-	673	280.6	2.87	100	-	*
Arkansas Power & Light Co	**9,215**	**162.7**	**28.66**	**.34**	**131**	**473.7**	**27.60**	**.28**	**31,951**	**154.0**	**1.57**	**83**	*****	**17**
Couch (AR)	-	-	-	-	-	-	-	-	4,571	111.6	1.23	-	-	100
Lake Catherine (AR)	-	-	-	-	10	276.9	17.41	.01	11,344	162.3	1.63	-	1	99
Ritchie (AR)	-	-	-	-	5	270.0	16.96	.30	16,037	161.4	1.62	-	*	100
Whitebluff (AR)	4,699	165.5	29.11	.47	39	494.6	28.46	.30	-	-	-	100	*	-
Independence (AR)	4,516	159.9	28.19	.21	77	504.3	29.14	.30	-	-	-	99	1	-
Associated Electric Coop Inc	**5,736**	**132.0**	**28.20**	**3.40**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Madrid (MO)	3,449	119.5	25.70	2.88	-	-	-	-	-	-	-	100	-	-
Hill (MO)	2,287	151.3	31.96	4.19	-	-	-	-	-	-	-	100	-	-
Atlantic City Electric Co	**569**	**183.0**	**47.97**	**2.57**	**407**	**364.1**	**23.18**	**.89**	**-**	**-**	**-**	**85**	**15**	**-**
England (NJ)	569	183.0	47.97	2.57	407	364.1	23.18	.89	-	-	-	85	15	-
Austin City of	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**15,082**	**199.0**	**2.01**	**-**	**-**	**100**
Decker Creek (TX)	-	-	-	-	-	-	-	-	10,580	199.5	2.02	-	-	100
Holly (TX)	-	-	-	-	-	-	-	-	4,470	197.9	1.99	-	-	100
Seaholm (TX)	-	-	-	-	-	-	-	-	31	195.5	1.98	-	-	100
Baltimore Gas & Electric Co	**3,532**	**157.2**	**40.64**	**1.04**	**3,902**	**319.8**	**20.09**	**.97**	**6,639**	**259.8**	**2.70**	**74**	**20**	**6**
Brandon Shores (MD)	1,862	156.3	39.83	.70	-	-	-	-	-	-	-	100	-	-
Crane (MD)	740	155.5	41.33	2.17	-	-	-	-	-	-	-	100	-	-
Gould St (MD)	-	-	-	-	502	308.0	19.35	.97	-	-	-	-	100	-
Wagner (MD)	930	160.3	41.70	.84	1,172	349.0	21.92	.97	4,350	262.0	2.72	67	20	13
Riverside (MD)	-	-	-	-	1,499	306.9	19.27	.96	2,289	255.5	2.66	-	80	20
Westport (MD)	-	-	-	-	729	307.7	19.32	.97	-	-	-	-	100	-
Bangor Hydro-Electric Co	**-**	**-**	**-**	**-**	**63**	**392.3**	**24.98**	**.64**	**-**	**-**	**-**	**-**	**100**	**-**
Graham (ME)	-	-	-	-	63	392.3	24.98	.64	-	-	-	-	100	-
Basin Electric Power Coop	**13,468**	**65.2**	**9.74**	**.51**	**70**	**561.0**	**32.49**	**.34**	**-**	**-**	**-**	**100**	*****	**-**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Basin Electric Power Coop														
Leland Olds (ND)	1,995	90.2	11.90	0.66	9	651.5	37.73	0.34	-	-	-	100	*	-
Laramie River (WY)	6,670	58.5	9.72	.37	48	542.1	31.40	.34	-	-	-	100	*	-
Antelope Valley (ND)	4,803	66.6	8.88	.63	13	569.7	32.99	.34	-	-	-	100	*	-
Big Rivers Electric Corp	**5,110**	**123.3**	**27.55**	**3.55**	**16**	**694.0**	**40.22**	**.00**	**43**	**307.6**	**3.08**	**100**	*	*
Coleman (KY)	1,441	108.6	24.65	2.58	-	-	-	-	43	307.6	3.08	100	-	*
Reid-Henderson (KY)	824	124.6	30.20	2.67	8	691.8	40.10	.00	-	-	-	100	*	-
R D Green (KY)	1,644	120.7	25.51	4.32	-	-	-	-	-	-	-	100	-	-
Wilson (KY)	1,201	143.5	32.03	4.26	8	696.0	40.34	.00	-	-	-	100	*	-
Boston Edison Co	**-**	**-**	**-**	**-**	**7,224**	**296.2**	**18.66**	**.89**	**42,775**	**236.2**	**2.49**	**-**	**50**	**50**
Mystic (MA)	-	-	-	-	4,049	285.3	18.02	.93	21,570	250.4	2.70	-	52	48
New Boston (MA)	-	-	-	-	3,174	310.4	19.48	.85	21,205	221.2	2.29	-	48	52
Brazos Electric Power Coop Inc	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**15,442**	**174.0**	**1.77**	**-**	**-**	**100**
North Texas (TX)	-	-	-	-	-	-	-	-	267	178.9	2.02	-	-	100
Miller (TX)	-	-	-	-	-	-	-	-	15,175	173.9	1.77	-	-	100
Bryan City of	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**5,176**	**171.3**	**1.80**	**-**	**-**	**100**
Bryan (TX)	-	-	-	-	-	-	-	-	1,112	177.3	1.88	-	-	100
Dansby (TX)	-	-	-	-	-	-	-	-	4,064	169.7	1.77	-	-	100
Burbank City of	**-**	**-**	**-**	**-**	**8**	**359.4**	**23.29**	**.22**	**2,422**	**315.2**	**3.24**	**-**	**2**	**98**
Magnolia-Olive (CA)	-	-	-	-	8	359.4	23.29	.22	2,422	315.2	3.24	-	2	98
Cajun Electric Power Coop Inc	**4,682**	**170.3**	**29.30**	**.44**	**82**	**512.3**	**30.12**	**.00**	**4,253**	**168.4**	**1.77**	**94**	**1**	**5**
Big Cajun No.1 (LA)	-	-	-	-	13	567.9	33.39	.00	4,253	168.4	1.77	-	2	98
Big Cajun No.2 (LA)	4,682	170.3	29.30	.44	69	501.6	29.49	.00	-	-	-	99	1	-
Cambridge Electric Light Co	**-**	**-**	**-**	**-**	**197**	**377.1**	**23.77**	**.43**	**1,021**	**322.9**	**3.23**	**-**	**55**	**45**
Kendall Square (MA)	-	-	-	-	197	377.1	23.77	.43	1,021	322.9	3.23	-	55	45
Canal Electric Co	**-**	**-**	**-**	**-**	**8,841**	**264.6**	**16.68**	**2.14**	**-**	**-**	**-**	**-**	**100**	**-**
Canal (MA)	-	-	-	-	8,841	264.6	16.68	2.14	-	-	-	-	100	-
Cardinal Operating Co	**3,989**	**151.5**	**35.88**	**2.17**	**60**	**539.0**	**31.30**	**.00**	**-**	**-**	**-**	**100**	*	**-**
Cardinal (OH)	3,989	151.5	35.88	2.17	60	539.0	31.30	.00	-	-	-	100	*	-
Carolina Power & Light Co	**9,868**	**179.9**	**45.16**	**.91**	**148**	**508.8**	**29.49**	**.20**	**-**	**-**	**-**	**100**	*	**-**
Asheville (NC)	970	136.2	36.25	1.19	11	484.1	28.06	.20	-	-	-	100	*	-
Cape Fear (NC)	541	194.2	49.18	1.01	3	603.5	34.98	.20	-	-	-	100	*	-
Lee (NC)	437	196.7	50.28	1.02	2	573.7	33.25	.20	-	-	-	100	*	-
Roxboro (NC)	5,543	180.9	45.24	.88	76	496.7	28.79	.20	-	-	-	100	*	-
Sutton (NC)	570	185.9	47.12	1.06	8	553.6	32.09	.20	-	-	-	100	*	-
Weatherspoon (NC)	174	194.5	49.34	1.09	1	626.4	36.31	.20	-	-	-	100	*	-
Robinson (SC)	209	186.3	46.31	1.24	7	534.6	30.98	.20	-	-	-	99	1	-
Mayo (NC)	1,423	192.2	46.37	.62	40	512.2	29.69	.20	-	-	-	99	1	-
Cedar Falls City of	**22**	**139.1**	**31.19**	**3.05**	**-**	**-**	**-**	**-**	**21**	**242.4**	**2.42**	**96**	**-**	**4**
Streeter (IA)	22	139.1	31.19	3.05	-	-	-	-	21	242.4	2.42	96	-	4
Centel Corp	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**3,954**	**154.0**	**1.50**	**-**	**-**	**100**
Cimarron River (KS)	-	-	-	-	-	-	-	-	920	193.5	2.00	-	-	100
Large (KS)	-	-	-	-	-	-	-	-	2,859	140.1	1.34	-	-	100
Mullergren (KS)	-	-	-	-	-	-	-	-	175	157.9	1.56	-	-	100
Central Electric Pwr Coop-MO	**116**	**128.2**	**27.74**	**3.04**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Chamois (MO)	116	128.2	27.74	3.04	-	-	-	-	-	-	-	100	-	-
Central Hudson Gas & Elec Corp	**935**	**205.8**	**53.80**	**.58**	**10,436**	**313.6**	**19.96**	**1.28**	**6,193**	**286.8**	**2.96**	**25**	**68**	**7**
Danskammer (NY)	935	205.8	53.80	.58	184	360.9	22.73	.92	6,193	286.8	2.96	76	4	20
Roseton (NY)	-	-	-	-	10,252	312.7	19.91	1.28	-	-	-	-	100	-
Central Illinois Light Co	**2,130**	**179.2**	**42.94**	**1.96**	**16**	**563.8**	**32.75**	**.22**	**-**	**-**	**-**	**100**	*	**-**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Central Illinois Light Co														
Edwards (IL)	1,269	174.9	45.19	1.00	10	556.8	32.41	0.24	-	-	-	100	*	-
Duck Creek (IL)	861	186.9	39.61	3.37	6	575.3	33.32	.19	-	-	-	100	*	-
Central Illinois Pub Serv Co	**4,716**	**160.3**	**35.68**	**2.62**	**103**	**447.4**	**26.78**	**.40**	**-**	**-**	**-**	**99**	**1**	**-**
Coffeen (IL)	1,746	158.9	33.70	3.54	10	550.6	31.72	.19	-	-	-	100	*	-
Grand Tower (IL)	204	164.7	38.13	2.99	6	563.0	32.69	.20	-	-	-	99	1	-
Hutsonville (IL)	213	142.9	32.49	2.64	6	572.4	32.90	.23	-	-	-	99	1	-
Meredosia (IL)	517	145.9	33.17	2.54	54	346.5	21.40	.54	-	-	-	97	3	-
Newton (IL)	2,035	166.4	38.11	1.81	26	574.6	33.16	.27	-	-	-	100	*	-
Central Iowa Power Coop	**142**	**117.7**	**25.74**	**2.95**	**-**	**-**	**-**	**-**	**8**	**356.8**	**3.67**	**100**	**-**	*****
Fair Station (IA)	142	117.7	25.74	2.95	-	-	-	-	8	356.8	3.67	100	-	*
Central Louisiana Elec Co Inc	**4,852**	**157.3**	**23.72**	**.53**	**-**	**-**	**-**	**-**	**26,944**	**224.5**	**2.34**	**72**	**-**	**28**
Dolet Hills (LA)	3,186	133.5	18.37	.55	-	-	-	-	133	250.5	2.57	100	-	*
Coughlin (LA)	-	-	-	-	-	-	-	-	4,404	230.6	2.45	-	-	100
Teche (LA)	-	-	-	-	-	-	-	-	10,928	227.9	2.39	-	-	100
Rodemacher (LA)	1,666	192.8	33.93	.49	-	-	-	-	11,479	218.5	2.26	71	-	29
Central Maine Power Co	**-**	**-**	**-**	**-**	**3,728**	**276.6**	**17.42**	**.88**	**-**	**-**	**-**	**-**	**100**	**-**
Mason (ME)	-	-	-	-	62	258.3	16.52	.51	-	-	-	-	100	-
Wyman (ME)	-	-	-	-	3,666	276.9	17.44	.89	-	-	-	-	100	-
Central Nebraska Pub P&I Dist	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2,039**	**190.4**	**1.78**	**-**	**-**	**100**
Canaday (NE)	-	-	-	-	-	-	-	-	2,039	190.4	1.78	-	-	100
Central Operating Co	**2,152**	**139.1**	**34.23**	**1.13**	**37**	**[2] 558.6**	**32.21**	**.00**	**-**	**-**	**-**	**100**	*****	**-**
Sporn (WV)	2,152	139.1	34.23	1.13	37	[2] 558.6	32.21	.00	-	-	-	100	*	-
Central Power & Light Co	**1,829**	**206.0**	**43.63**	**.38**	**81**	**424.8**	**24.71**	**.37**	**83,418**	**220.8**	**2.32**	**31**	*****	**69**
Joslin (TX)	-	-	-	-	14	402.8	23.43	.33	5,231	174.8	1.84	-	1	99
Bates (TX)	-	-	-	-	20	436.0	25.34	.39	5,176	233.9	2.56	-	2	98
Laredo (TX)	-	-	-	-	1	444.8	25.85	.39	6,044	241.9	2.65	-	*	100
Hill (TX)	-	-	-	-	-	-	-	-	12,573	189.9	2.00	-	-	100
Nueces Bay (TX)	-	-	-	-	16	424.5	24.67	.39	21,010	226.4	2.37	-	*	100
La Palma (TX)	-	-	-	-	-	-	-	-	6,668	209.3	2.29	-	-	100
Victoria (TX)	-	-	-	-	-	-	-	-	2,296	178.4	1.91	-	-	100
Davis (TX)	-	-	-	-	24	431.2	25.06	.39	24,419	241.3	2.47	-	1	99
Coleto Creek (TX)	1,829	206.0	43.63	.38	6	410.0	24.09	.20	-	-	-	100	*	-
Century Power Corp	**1,785**	**196.8**	**36.48**	**.62**	**49**	**531.7**	**31.49**	**.13**	**-**	**-**	**-**	**99**	**1**	**-**
Springerville (AZ)	1,785	196.8	36.48	.62	49	531.7	31.49	.13	-	-	-	99	1	-
Cincinnati Gas & Electric Co	**8,005**	**143.3**	**33.48**	**1.93**	**72**	**520.3**	**30.09**	**.42**	**-**	**-**	**-**	**100**	*****	**-**
Beckjord (OH)	2,734	141.8	32.81	2.04	26	514.3	29.73	.46	-	-	-	100	*	-
Miami Fort (OH)	3,269	147.2	34.77	1.70	37	520.7	30.19	.39	-	-	-	100	*	-
East Bend (KY)	1,519	148.3	34.28	1.89	10	533.8	30.62	.39	-	-	-	100	*	-
Zimmer (OH)	484	110.0	26.06	3.02	-	-	-	-	-	-	-	100	-	-
Cleveland Electric Illum Co	**5,381**	**154.1**	**38.77**	**2.64**	**231**	**344.5**	**21.84**	**.94**	**-**	**-**	**-**	**99**	**1**	**-**
Ashtabula (OH)	954	145.4	36.79	3.16	10	448.9	26.10	.37	-	-	-	100	*	-
Avon Lake (OH)	1,838	155.4	38.15	2.33	7	509.4	29.70	.40	-	-	-	100	*	-
Eastlake (OH)	2,180	152.7	38.84	3.06	19	571.2	33.44	.36	-	-	-	100	*	-
Lake Shore (OH)	409	175.5	45.88	.60	194	313.7	20.18	1.04	-	-	-	90	10	-
Coffeyville City of	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**462**	**235.3**	**2.35**	**-**	**-**	**100**
Coffeyville (KS)	-	-	-	-	-	-	-	-	462	235.3	2.35	-	-	100
Colorado Springs City of	**1,369**	**142.3**	**30.45**	**.40**	**-**	**-**	**-**	**-**	**58**	**428.5**	**4.20**	**100**	**-**	*****
Drake (CO)	608	150.0	31.81	.37	-	-	-	-	46	404.7	3.97	100	-	*
Birdsall (CO)	-	-	-	-	-	-	-	-	12	522.0	5.10	-	-	100
Nixon (CO)	760	136.2	29.36	.42	-	-	-	-	-	-	-	100	-	-
Colorado Ute Electric Assn Inc	**5,613**	**93.1**	**19.22**	**.39**	**7**	**560.8**	**32.25**	**.29**	**233**	**254.6**	**2.66**	**100**	*****	*****

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Colorado Ute Electric Assn Inc														
Hayden (CO)	1,478	84.8	18.09	0.43	7	560.8	32.25	0.29	18	273.9	2.85	100	*	*
Nucla (CO)	209	125.5	25.88	.50	-	-	-	-	-	-	-	99	1	-
Craig (CO)	3,926	94.6	19.29	.37	-	-	-	-	215	253.0	2.64	100	-	*
Columbia City of	36	196.3	50.27	1.76	-	-	-	-	-	-	-	100	-	-
Columbia (MO)	36	196.3	50.27	1.76	-	-	-	-	-	-	-	100	-	-
Columbus Southern Power Co	3,905	155.4	36.56	3.12	26	541.7	31.78	.00	-	-	-	100	*	-
Conesville (OH)	3,640	158.5	37.32	3.13	25	542.2	31.79	.00	-	-	-	100	*	-
Picway (OH)	265	112.5	26.04	2.99	2	534.3	31.57	.00	-	-	-	100	*	-
Columbus City of	45	168.6	41.58	.74	-	-	-	-	-	-	-	100	-	-
Solid Waste R F (OH)	45	168.6	41.58	.74	-	-	-	-	-	-	-	100	-	-
Commonwealth Edison Co	8,516	250.2	48.77	1.24	1,731	397.0	24.96	.62	5,379	[2] 296.8	3.04	91	6	3
Crawford (IL)	254	323.4	61.47	.44	6	616.1	35.81	.24	483	[2] 410.4	4.22	90	1	9
Joliet (IL)	1,503	296.0	56.41	.42	2	553.5	32.23	.25	3,102	234.8	2.40	90	*	10
Kincaid (IL)	2,335	138.0	28.34	3.46	-	-	-	-	67	314.4	3.21	100	-	*
Powerton (IL)	1,969	280.9	53.92	.37	-	-	-	-	170	434.0	4.34	100	-	*
Waukegan (IL)	850	284.2	54.02	.42	24	532.5	30.95	.25	162	240.4	2.46	98	1	1
Will County (IL)	856	319.9	61.17	.40	234	501.6	29.18	.25	-	-	-	92	8	-
Fisk (IL)	400	322.2	61.22	.42	1	514.2	29.78	.23	988	404.9	4.16	88	*	12
State Line (IN)	348	296.5	56.72	.39	-	-	-	-	407	333.2	3.42	94	-	6
Collins (IL)	-	-	-	-	1,464	378.7	24.13	.68	-	-	-	100	-	-
Commonwealth Electric Co	-	-	-	-	72	308.7	19.47	.92	534	284.2	2.84	-	46	54
Cannon (MA)	-	-	-	-	72	308.7	19.47	.92	534	284.2	2.84	-	46	54
Connecticut Light & Power Co	-	-	-	-	9,395	304.7	19.25	.85	1,943	233.9	2.42	-	97	3
Devon (CT)	-	-	-	-	2,317	297.7	18.91	1.00	-	-	-	100	-	-
Montville (CT)	-	-	-	-	1,656	289.4	18.28	.99	1,943	233.9	2.42	-	84	16
Norwalk Harbor (CT)	-	-	-	-	2,621	295.9	18.74	.99	-	-	-	100	-	-
Middletown (CT)	-	-	-	-	2,801	327.9	20.57	.50	-	-	-	100	-	-
Consolidated Edison Co-NY Inc	-	-	-	-	18,958	413.8	25.75	.27	103,150	222.7	2.30	-	53	47
East River (NY)	-	-	-	-	452	440.0	27.35	.27	5,074	214.8	2.22	-	35	65
Hudson Avenue (NY)	-	-	-	-	4,174	413.1	25.69	.27	-	-	-	100	-	-
Ravenswood (NY)	-	-	-	-	15	492.0	30.58	.29	52,105	225.9	2.33	-	*	100
Waterside (NY)	-	-	-	-	-	-	-	-	6,890	237.2	2.45	-	-	100
59th St (NY)	-	-	-	-	100	557.4	34.51	.26	-	-	-	100	-	-
Astoria (NY)	-	-	-	-	2,797	423.4	26.38	.27	39,081	216.9	2.24	-	30	70
Storage Facility #6	-	-	-	-	2,502	430.2	26.77	.27	-	-	-	100	-	-
Storage Facility #5	-	-	-	-	2,293	374.3	23.30	.28	-	-	-	100	-	-
Storage Facility #4	-	-	-	-	3,954	423.7	26.40	.28	-	-	-	100	-	-
Storage Facility #3	-	-	-	-	2,673	398.1	24.77	.27	-	-	-	100	-	-
Consumers Power Co	6,710	160.6	38.86	.78	615	294.1	18.57	.96	-	-	-	98	2	-
Cobb (MI)	827	153.0	33.67	.67	-	-	-	-	-	-	-	100	-	-
Karn-Weadock (MI)	1,259	155.5	38.14	.86	615	294.1	18.57	.96	-	-	-	89	11	-
Campbell (MI)	2,891	169.5	42.18	.77	-	-	-	-	-	-	-	100	-	-
Weadock (MI)	836	150.3	34.86	.77	-	-	-	-	-	-	-	100	-	-
Whiting (MI)	897	154.0	37.68	.84	-	-	-	-	-	-	-	100	-	-
Coop Power Assn	6,776	68.3	8.69	.77	9	209.1	12.91	2.50	-	-	-	100	*	-
Coal Creek (ND)	6,776	68.3	8.69	.77	9	209.1	12.91	2.50	-	-	-	100	*	-
Dairyland Power Coop	2,035	132.9	24.50	.88	18	459.0	26.99	.50	-	-	-	100	*	-
Alma-Madgett (WI)	1,440	135.3	24.13	.50	8	476.6	28.03	.50	-	-	-	100	*	-
Genoa No.3 (WI)	570	126.7	25.04	1.82	7	424.8	24.98	.50	-	-	-	100	*	-
Stoneman (WI)	25	143.0	33.45	1.42	3	493.4	29.01	.50	-	-	-	97	3	-
Dayton Power & Light Co	9,054	150.4	35.54	1.24	41	506.9	29.40	.40	255	369.0	3.76	100	*	*
Hutchings (OH)	169	150.1	36.53	.79	-	-	-	-	255	369.0	3.76	94	-	6
Stuart (OH)	6,956	150.5	34.95	1.42	17	539.9	31.19	.55	-	-	-	100	*	-
Killen (OH)	1,929	150.0	37.57	.65	24	483.8	28.14	.29	-	-	-	100	*	-

See footnotes at end of table.
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Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Deepwater Operating Co	**193**	**177.8**	**46.01**	**0.84**	**188**	**274.4**	**17.24**	**0.98**	**1,637**	**232.4**	**2.42**	**63**	**15**	**22**
Deepwater (NJ)	193	177.8	46.01	.84	188	274.4	17.24	.98	1,637	232.4	2.42	63	15	22
Delmarva Power & Light Co	**2,192**	**181.5**	**47.31**	**.97**	**1,960**	**291.3**	**18.46**	**1.13**	**3,150**	**251.0**	**2.66**	**78**	**17**	**5**
Delaware City (DE)	-	-	-	-	15	246.7	15.61	.87	883	250.3	2.82	-	9	91
Edgemoor (DE)	566	200.3	53.35	.85	1,437	267.4	17.05	.96	2,267	251.2	2.60	57	34	9
Indian River (DE)	1,626	174.7	45.21	1.01	69	489.4	28.36	.25	-	-	-	99	1	-
Vienna (MD)	-	-	-	-	439	343.3	21.62	1.81	-	-	-	-	100	-
Denton City of	**-**	**-**	**-**	**-**	**7**	**551.3**	**32.35**	**.00**	**1,201**	**184.4**	**1.94**	**-**	**3**	**97**
Spencer (TX)	-	-	-	-	7	551.3	32.35	.00	1,201	184.4	1.94	-	3	97
Deseret Generation & Tran Coop	**1,508**	**223.3**	**47.95**	**.48**	**-**	**-**	**-**	**-**	**1**	**503.5**	**5.04**	**100**	**-**	*****
Bonanza (UT)	1,508	223.3	47.95	.48	-	-	-	-	1	503.5	5.04	100	-	*
Detroit City of	**-**	**-**	**-**	**-**	**408**	**276.3**	**16.80**	**.61**	**1,912**	**272.4**	**2.77**	**-**	**56**	**44**
Mistersky (MI)	-	-	-	-	408	276.3	16.80	.61	1,912	272.4	2.77	-	56	44
Detroit Edison Co	**19,616**	**156.7**	**33.57**	**.63**	**571**	**378.6**	**22.68**	**.56**	**17,856**	**158.8**	**.16**	**99**	**1**	*****
Harbor Beach (MI)	53	183.1	48.61	.91	6	549.1	31.65	.36	-	-	-	98	2	-
Monroe (MI)	8,073	161.9	37.17	.81	82	512.9	29.71	.26	-	-	-	100	*	-
River Rouge (MI)	987	166.2	41.62	.70	-	-	-	-	17,829	155.6	.15	93	-	7
St Clair (MI)	5,155	140.5	27.37	.53	65	377.9	22.64	.62	27	358.9	3.69	100	*	*
Trenton Channel (MI)	1,292	196.9	47.25	.73	31	521.8	30.16	.24	-	-	-	99	1	-
Belle River (MI)	4,056	145.5	27.78	.34	35	446.1	25.80	.23	-	-	-	100	*	-
Greenwood (MI)	-	-	-	-	352	327.6	19.91	.68	-	-	-	-	100	-
Dover City of	**-**	**-**	**-**	**-**	**490**	**283.9**	**18.08**	**2.12**	**1,063**	**278.2**	**2.88**	**-**	**74**	**26**
Mckee Run (DE)	-	-	-	-	490	283.9	18.08	2.12	1,063	278.2	2.88	-	74	26
Duke Power Co	**10,257**	**175.6**	**44.01**	**1.01**	**116**	**529.7**	**30.82**	**.30**	**-**	**-**	**-**	**100**	*****	**-**
Allen (NC)	1,255	179.1	45.04	1.03	39	532.5	30.93	.30	-	-	-	99	1	-
Buck (NC)	83	173.8	44.52	.95	-	-	-	-	-	-	-	100	-	-
Cliffside (NC)	908	180.8	45.42	1.03	16	541.1	31.55	.30	-	-	-	100	*	-
Dan River (NC)	269	153.7	39.13	.96	-	-	-	-	-	-	-	100	-	-
Marshall (NC)	3,848	167.3	41.96	1.03	30	482.7	28.11	.30	-	-	-	100	*	-
Riverbend (NC)	243	167.3	42.35	1.02	-	-	-	-	-	-	-	100	-	-
Lee (SC)	309	154.7	39.07	1.00	10	651.6	37.87	.30	-	-	-	99	1	-
Belews Creek (NC)	3,342	186.7	46.57	.98	21	525.0	30.57	.30	-	-	-	100	*	-
Duquesne Light Co	**2,238**	**143.2**	**35.39**	**1.72**	**21**	**543.8**	**31.26**	**.26**	**155**	**285.1**	**2.97**	**99**	*****	*****
Elrama (PA)	811	143.4	35.19	1.94	21	543.8	31.26	.26	-	-	-	99	1	-
Cheswick (PA)	1,427	143.1	35.51	1.60	-	-	-	-	155	285.1	2.97	100	-	*
East Kentucky Power Coop	**2,654**	**119.2**	**28.99**	**1.17**	**6**	**546.7**	**31.82**	**.16**	**-**	**-**	**-**	**100**	*****	**-**
Cooper (KY)	652	120.1	28.94	1.53	3	550.1	32.02	.20	-	-	-	100	*	-
Dale (KY)	256	120.7	29.30	.82	3	543.0	31.61	.12	-	-	-	100	*	-
Spurlock (KY)	1,946	118.8	28.96	1.10	-	-	-	-	-	-	-	100	-	-
El Paso Electric Co	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**15,172**	**198.5**	**2.04**	**-**	**-**	**100**
Rio Grande (TX)	-	-	-	-	-	-	-	-	6,039	210.0	2.14	-	-	100
Newman (TX)	-	-	-	-	-	-	-	-	9,133	191.0	1.98	-	-	100
Electric Energy Inc	**3,477**	**117.4**	**27.13**	**1.95**	**12**	**583.5**	**33.96**	**.39**	**-**	**-**	**-**	**100**	*****	**-**
Joppa (IL)	3,477	117.4	27.13	1.95	12	583.5	33.96	.39	-	-	-	100	*	-
Empire District Electric Co	**908**	**110.5**	**22.53**	**1.40**	**3**	**508.5**	**30.30**	**.00**	**224**	**217.6**	**2.24**	**99**	*****	**1**
Riverton (KS)	230	117.6	24.49	1.35	1	517.8	29.90	.00	224	217.6	2.24	95	*	5
Asbury (MO)	677	108.0	21.86	1.42	3	506.6	30.38	.00	-	-	-	100	*	-
Florida Power & Light Co	**-**	**-**	**-**	**-**	**29,782**	**307.6**	**19.53**	**1.10**	**107,997**	**265.1**	**2.65**	**-**	**64**	**36**
Cape Canaveral (FL)	-	-	-	-	3,193	284.4	17.89	1.59	9,332	251.6	2.52	-	68	32
Cutler (FL)	-	-	-	-	-	-	-	-	1,837	273.5	2.74	-	-	100
Fort Myers (FL)	-	-	-	-	4,070	290.6	18.47	1.30	-	-	-	-	100	-
Lauderdale (FL)	-	-	-	-	-	-	-	-	4,913	263.4	2.63	-	-	100

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Florida Power & Light Co														
Port Everglades (FL)	-	-	-	-	4,613	321.4	20.44	1.01	27,963	268.1	2.68	-	51	49
Riviera (FL)	-	-	-	-	1,692	332.4	21.22	.99	15,428	268.0	2.68	-	41	59
Sanford (FL)	-	-	-	-	2,937	292.9	18.50	1.44	2,776	257.1	2.57	-	87	13
Turkey Point (FL)	-	-	-	-	2,082	339.1	21.53	.96	18,290	275.7	2.76	-	42	58
Manatee (FL)	-	-	-	-	7,378	295.6	18.83	.98	-	-	-	-	100	-
Martin (FL)	-	-	-	-	3,818	334.9	21.19	.69	27,458	258.5	2.58	-	47	53
Florida Power Corp	**5,542**	**177.2**	**44.94**	**0.81**	**9,823**	**299.0**	**18.96**	**1.48**	**3,644**	**214.0**	**2.19**	**68**	**30**	**2**
Crystal River (FL)	5,542	177.2	44.94	.81	112	506.4	29.81	.24	-	-	-	100	*	-
Turner (FL)	-	-	-	-	462	298.9	18.85	2.31	775	208.1	2.14	-	79	21
Higgins (FL)	-	-	-	-	420	312.7	19.84	1.61	58	337.1	3.48	-	98	2
Bartow (FL)	-	-	-	-	1	505.2	29.83	.26	17	302.6	3.13	-	23	77
Suwannee (FL)	-	-	-	-	64	351.7	21.87	1.47	2,794	212.5	2.17	-	12	88
Anclote (FL)	-	-	-	-	75	511.8	30.25	.21	-	-	-	-	100	-
Storage Facility #1	-	-	-	-	8,690	293.8	18.67	1.46	-	-	-	-	100	-
Fort Pierre City of	**-**	**-**	**-**	**-**	**1**	**542.8**	**33.72**	**.75**	**875**	**238.4**	**2.46**	**-**	*****	**100**
H D King (FL)	-	-	-	-	1	542.8	33.72	.75	875	238.4	2.46	-	*	100
Fremont City of	**191**	**82.4**	**14.21**	**.38**	**-**	**-**	**-**	**-**	**89**	**194.4**	**1.94**	**97**	**-**	**3**
Wright (NE)	191	82.4	14.21	.38	-	-	-	-	89	194.4	1.94	97	-	3
Gainesville Regional Utilities	**587**	**180.1**	**47.17**	**.66**	**53**	**403.1**	**25.62**	**1.35**	**5,061**	**226.9**	**2.34**	**73**	**2**	**25**
Deerhaven (FL)	587	180.1	47.17	.66	34	407.3	25.89	1.32	3,579	227.5	2.34	80	1	19
Jr Kelly (FL)	-	-	-	-	18	395.2	25.12	1.41	1,482	225.4	2.32	-	7	93
Garland City of	**-**	**-**	**-**	**-**	*****	**460.1**	**27.44**	**.00**	**8,431**	**174.2**	**1.80**	**-**	*****	**100**
Newman (TX)	-	-	-	-	*	460.1	27.44	.00	237	174.1	1.81	-	1	99
Olinger (TX)	-	-	-	-	-	-	-	-	8,194	174.2	1.80	-	-	100
Georgia Power Co	**27,098**	**178.9**	**42.47**	**1.64**	**257**	**531.6**	**30.88**	**.57**	**592**	**285.6**	**2.93**	**100**	*****	*****
Arkwright (GA)	194	162.8	40.81	2.09	2	572.9	33.21	.50	38	306.3	3.14	99	*	1
Atkinson-Mcdonough (GA)	1,471	169.2	40.58	2.00	-	-	-	-	554	284.2	2.92	98	-	2
Bowen (GA)	8,340	170.9	41.46	1.60	30	559.3	32.42	.50	-	-	-	100	*	-
Hammond (GA)	2,004	168.7	43.26	1.67	13	563.0	32.63	.50	-	-	-	100	*	-
Harllee Branch (GA)	4,000	175.5	43.73	1.26	13	543.7	31.51	.50	-	-	-	100	*	-
Mcmanus (GA)	-	-	-	-	87	498.1	29.06	.71	-	-	-	-	100	-
Mitchell (GA)	269	208.9	52.00	1.37	23	423.0	24.52	.50	-	-	-	98	2	-
Yates (GA)	2,676	175.2	42.32	2.02	22	560.6	32.49	.50	-	-	-	100	*	-
Wansley (GA)	4,621	191.1	42.42	2.57	25	604.3	35.03	.50	-	-	-	100	*	-
Scherer (GA)	3,522	201.0	43.28	.52	43	566.9	32.85	.50	-	-	-	100	*	-
Glendale City of	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1,921**	**240.1**	**2.50**	**-**	**-**	**100**
Glendale (CA)	-	-	-	-	-	-	-	-	1,921	240.1	2.50	-	-	100
Grand Haven City of	**199**	**153.9**	**34.20**	**2.77**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
J B Simms (MI)	199	153.9	34.20	2.77	-	-	-	-	-	-	-	100	-	-
Grand Island City of	**283**	**68.4**	**11.49**	**.36**	**-**	**-**	**-**	**-**	**387**	**174.4**	**1.64**	**93**	**-**	**7**
Platte (NE)	283	68.4	11.49	.36	-	-	-	-	-	-	-	100	-	-
Burdick (NE)	-	-	-	-	-	-	-	-	387	174.4	1.64	-	-	100
Grand River Dam Authority	**3,465**	**101.4**	**17.50**	**.50**	*****	**401.8**	**23.25**	**.43**	**203**	**199.4**	**2.01**	**100**	*****	*****
GRDA No 1 (OK)	3,465	101.4	17.50	.50	*	401.8	23.25	.43	203	199.4	2.01	100	*	*
Greenville City of	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1,645**	**180.5**	**1.93**	**-**	**-**	**100**
Greenville (TX)	-	-	-	-	-	-	-	-	1,645	180.5	1.93	-	-	100
Gulf Power Co	**3,013**	**189.6**	**45.70**	**2.79**	**21**	**525.6**	**30.25**	**.45**	**959**	**166.1**	**1.66**	**99**	*****	**1**
Crist (FL)	2,108	188.6	45.39	2.81	6	552.5	31.79	.45	959	166.1	1.66	98	*	2
Scholtz (FL)	236	159.9	39.49	2.78	1	526.0	30.27	.45	-	-	-	100	*	-
Smith (FL)	668	203.5	48.90	2.76	14	514.4	29.60	.45	-	-	-	100	*	-
Gulf States Utilities Co	**2,059**	**192.6**	**33.91**	**.49**	**145**	**270.0**	**16.71**	**.24**	**176,065**	**185.7**	**1.93**	**16**	*****	**83**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Gulf States Utilities Co														
Nelson (LA)	2,059	192.6	33.91	0.49	17	468.4	27.34	0.16	20,740	159.5	1.69	62	*	38
Willow Glen (LA)	-	-	-	-	129	246.1	15.33	.25	41,381	182.2	1.90	-	2	98
Lewis Creek (TX)	-	-	-	-	-	-	-	-	27,644	188.1	1.97	-	-	100
Sabine (TX)	-	-	-	-	-	-	-	-	86,300	193.0	1.99	-	-	100
Hamilton City of	**96**	**157.5**	**38.90**	**.65**	**1**	**633.5**	**36.45**	**.21**	**622**	**196.9**	**1.97**	**79**	*	**21**
Hamilton (OH)	96	157.5	38.90	.65	1	633.5	36.45	.21	622	196.9	1.97	79	*	21
Hastings City of	**187**	**103.7**	**18.00**	**.27**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Hastings (NE)	187	103.7	18.00	.27	-	-	-	-	-	-	-	100	-	-
Hawaiian Electric Co Inc	**-**	**-**	**-**	**-**	**10,560**	**415.2**	**25.97**	**.46**	**-**	**-**	**-**	**-**	**100**	**-**
Kahe (HI)	-	-	-	-	3,734	412.8	26.07	.47	-	-	-	-	100	-
Waiau (HI)	-	-	-	-	56	280.7	17.28	.47	-	-	-	-	100	-
Storage Facility #1	-	-	-	-	6,770	417.7	25.98	.46	-	-	-	-	100	-
Holland City of	**185**	**172.9**	**45.82**	**.82**	**-**	**-**	**-**	**-**	**849**	**179.0**	**1.84**	**85**	**-**	**15**
James De Young (MI)	185	172.9	45.82	.82	-	-	-	-	849	179.0	1.84	85	-	15
Holyoke Water Power Co	**405**	**177.2**	**46.26**	**1.38**	**3**	**603.2**	**35.14**	**.22**	**-**	**-**	**-**	**100**	*	**-**
Mount Tom (MA)	405	177.2	46.26	1.38	3	603.2	35.14	.22	-	-	-	100	*	-
Hoosier Energy R E C Inc	**2,751**	**122.5**	**27.05**	**3.67**	**18**	**514.0**	**29.68**	**.07**	**-**	**-**	**-**	**100**	*	**-**
Frank E Ratts (IN)	638	131.9	29.44	3.09	2	505.9	28.77	.20	-	-	-	100	*	-
Merom (IN)	2,114	119.7	26.33	3.84	15	515.2	29.81	.05	-	-	-	100	*	-
Houston Lighting & Power Co	**16,453**	**200.5**	**30.56**	**.64**	**197**	**412.8**	**24.89**	**.51**	**235,168**	**171.0**	**1.77**	**51**	*	**49**
Limestone (TX)	7,392	148.4	19.55	.92	45	642.5	37.81	.22	2,964	181.8	1.92	97	*	3
Cedar Bayou (TX)	-	-	-	-	77	338.0	20.87	.93	89,880	170.3	1.76	-	1	99
Deepwater (TX)	-	-	-	-	-	-	-	-	3,136	177.0	1.82	-	-	100
Green Bayou (TX)	-	-	-	-	11	604.5	35.46	.51	17,970	176.0	1.82	-	*	100
Robinson (TX)	-	-	-	-	7	297.0	18.02	.70	66,287	167.2	1.74	-	*	100
Bertron (TX)	-	-	-	-	55	302.2	18.08	.13	10,951	165.3	1.73	-	3	97
Wharton (TX)	-	-	-	-	2	613.0	35.68	.50	5,860	166.0	1.71	-	*	100
Parish (TX)	9,061	233.6	39.54	.41	-	-	-	-	28,922	180.0	1.85	84	-	16
Webster (TX)	-	-	-	-	-	-	-	-	9,197	174.0	1.78	-	-	100
Illinois Power Co	**6,304**	**149.7**	**33.38**	**2.54**	**254**	**334.0**	**20.64**	**.76**	**1,568**	**212.8**	**2.16**	**98**	**1**	**1**
Baldwin (IL)	3,995	147.6	32.23	3.06	20	590.0	34.20	.30	-	-	-	100	*	-
Havana (IL)	496	158.0	39.47	.66	219	297.7	18.58	.83	-	-	-	90	10	-
Hennepin (IL)	688	148.2	30.98	2.69	-	-	-	-	176	245.1	2.51	99	-	1
Vermilion (IL)	387	122.5	26.21	2.47	3	539.7	31.28	.30	-	-	-	100	*	-
Wood River (IL)	738	167.7	41.50	.86	13	566.8	32.85	.30	1,392	208.7	2.11	92	*	7
Imperial Irrigation District	**-**	**-**	**-**	**-**	**133**	**262.0**	**16.45**	**1.19**	**4,547**	**298.5**	**3.06**	**-**	**15**	**85**
El Centro (CA)	-	-	-	-	133	262.0	16.45	1.19	4,547	298.5	3.06	-	15	85
Independence City of	**30**	**158.1**	**38.42**	**3.23**	**2**	**604.6**	**34.88**	**.30**	**113**	**207.2**	**2.07**	**85**	**2**	**13**
Blue Valley (MO)	30	158.1	38.42	3.23	2	604.6	34.88	.30	113	207.2	2.07	85	2	13
Indiana Michigan Power Co	**12,832**	**133.6**	**24.64**	**.74**	**188**	**504.3**	**29.06**	**.40**	**-**	**-**	**-**	**100**	*	**-**
Breed (IN)	500	148.4	31.98	3.81	7	525.1	30.33	.40	-	-	-	100	*	-
Tanners Creek (IN)	2,378	169.3	39.33	1.84	25	422.7	24.60	.40	-	-	-	100	*	-
Rockport (IN)	9,954	121.1	20.77	.32	156	516.6	29.72	.40	-	-	-	99	1	-
Indiana-Kentucky Electric Corp	**4,402**	**103.9**	**23.63**	**3.40**	**5**	**615.0**	**35.55**	**.26**	**-**	**-**	**-**	**100**	*	**-**
Clifty Creek (IN)	4,402	103.9	23.63	3.40	5	615.0	35.55	.26	-	-	-	100	*	-
Indianapolis Power & Light Co	**5,973**	**107.8**	**24.18**	**2.30**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Stout (IN)	1,306	130.0	29.05	1.56	-	-	-	-	-	-	-	100	-	-
Pritchard (IN)	295	119.3	27.03	1.42	-	-	-	-	-	-	-	100	-	-
Petersburg (IN)	4,372	100.4	22.54	2.58	-	-	-	-	-	-	-	100	-	-
Interstate Power Co	**1,425**	**181.8**	**35.35**	**1.26**	**9**	**494.9**	**29.10**	**.00**	**839**	**185.0**	**1.85**	**97**	*	**3**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Interstate Power Co														
Dubuque (IA)	131	191.5	42.12	2.86	1	476.3	28.01	0.00	18	221.0	2.21	99	*	1
Lansing (IA)	745	224.5	37.90	.44	6	522.0	30.70	.00	-	-	-	100	*	-
Kapp (IA)	490	132.4	29.57	2.01	-	-	-	-	25	321.3	3.28	100	-	*
Fox Lake (MN)	59	163.8	36.00	1.96	2	407.5	23.96	.00	796	179.8	1.80	62	1	38
Iowa Electric Light & Power Co	**691**	**143.0**	**29.87**	**1.70**	**31**	**588.7**	**34.25**	**.00**	**1,119**	**314.4**	**3.14**	**92**	**1**	**7**
6th St (IA)	84	156.8	34.80	2.13	-	-	-	-	696	338.6	3.39	73	-	27
Praire Creek (IA)	376	151.2	31.92	2.04	4	531.4	30.91	.00	160	315.7	3.16	98	*	2
Sutherland (IA)	231	123.6	24.75	.99	26	597.6	34.76	.00	263	249.9	2.50	92	3	5
Iowa Power & Light Co	**3,193**	**97.5**	**16.20**	**.33**	**24**	**472.1**	**26.97**	**.46**	**70**	**278.0**	**2.78**	**100**	*****	*****
Council Bluffs (IA)	3,193	97.5	16.20	.33	24	472.1	26.97	.46	70	278.0	2.78	100	*	*
Iowa Public Service Co	**4,923**	**84.3**	**14.65**	**.39**	**7**	**360.1**	**20.87**	**.00**	**462**	**255.8**	**2.56**	**99**	*****	**1**
George Neal 1-4 (IA)	4,923	84.3	14.65	.39	7	360.1	20.87	.00	462	255.8	2.56	99	*	1
Iowa Southern Utilities Co	**2,568**	**105.7**	**18.45**	**.68**	**12**	**499.0**	**28.90**	**.04**	**-**	**-**	**-**	**100**	*****	**-**
Burlington (IA)	347	118.6	25.81	2.80	8	530.8	30.74	.04	-	-	-	99	1	-
Ottumwa (IA)	2,222	103.1	17.30	.35	4	435.2	25.20	.04	-	-	-	100	*	-
Iowa-Illinois Gas&Electric Co	**2,010**	**112.8**	**19.61**	**.62**	**-**	**-**	**-**	**-**	**469**	**338.0**	**3.47**	**99**	**-**	**1**
Riverside (IA)	233	127.5	27.54	2.69	-	-	-	-	321	357.2	3.68	94	-	6
Louisa (IA)	1,777	110.4	18.57	.35	-	-	-	-	148	296.2	3.03	99	-	1
Jacksonville Electric Auth	**3,455**	**176.4**	**43.52**	**.94**	**1,268**	**214.9**	**13.60**	**1.54**	**7,099**	**215.9**	**2.26**	**85**	**8**	**7**
St Johns River (FL)	3,455	176.4	43.52	.94	39	555.1	32.41	.35	-	-	-	100	*	-
Kennedy (FL)	-	-	-	-	232	213.1	13.60	.99	2,536	206.9	2.16	-	36	64
Northside (FL)	-	-	-	-	944	202.3	12.82	1.75	1,345	233.3	2.44	-	81	19
Southside (FL)	-	-	-	-	53	216.1	13.79	.99	3,218	215.7	2.26	-	9	91
Jamestown City of	**122**	**144.7**	**36.53**	**1.85**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Samuel A Carlson (NY)	122	144.7	36.53	1.85	-	-	-	-	-	-	-	100	-	-
Jersey Central Power&Light Co	**-**	**-**	**-**	**-**	**770**	**372.8**	**23.25**	**.39**	**3,004**	**255.1**	**2.63**	**-**	**61**	**39**
Werner (NJ)	-	-	-	-	75	343.3	21.47	.30	-	-	-	-	100	-
Sayreville (NJ)	-	-	-	-	449	354.4	22.18	.29	2,570	259.9	2.68	-	51	49
Gilbert (NJ)	-	-	-	-	246	415.8	25.74	.60	434	226.8	2.34	-	77	23
Kansas City City of	**1,274**	**135.6**	**25.22**	**.82**	**6**	**575.6**	**33.36**	**.00**	**765**	**224.3**	**2.28**	**97**	*****	**3**
Kaw (KS)	76	230.1	52.94	2.74	1	532.3	30.85	.00	551	229.6	2.33	76	*	24
Quindaro (KS)	400	167.3	36.51	1.34	*	598.9	34.71	.00	214	210.6	2.15	98	*	2
Nearman (KS)	799	102.2	16.92	.37	5	580.5	33.65	.00	-	-	-	100	*	-
Kansas City Power & Light Co	**8,978**	**99.4**	**17.81**	**.65**	**70**	**468.2**	**27.17**	**.16**	**111**	**328.8**	**3.39**	**100**	*****	*****
La Cygne (KS)	3,986	108.3	20.11	1.05	33	534.6	31.03	.15	-	-	-	100	*	-
Hawthorne (MO)	1,300	94.3	16.56	.22	-	-	-	-	111	328.8	3.39	99	-	1
Montrose (MO)	1,340	102.0	17.19	.39	10	534.6	30.71	.18	-	-	-	100	*	-
Iatan (MO)	2,352	85.1	14.95	.36	11	395.7	23.06	.20	-	-	-	100	*	-
Storage Facility #1	-	-	-	-	17	348.6	20.28	.15	-	-	-	-	100	-
Kansas Gas & Electric Co	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**9,117**	**195.5**	**1.95**	**-**	**-**	**100**
Evans (KS)	-	-	-	-	-	-	-	-	3,887	191.6	1.91	-	-	100
Gill (KS)	-	-	-	-	-	-	-	-	5,230	198.4	1.99	-	-	100
Kansas Power & Light Co	**9,230**	**133.0**	**23.34**	**.36**	**-**	**-**	**-**	**-**	**6,595**	**149.6**	**1.47**	**96**	**-**	**4**
Hutchinson (KS)	-	-	-	-	-	-	-	-	6,092	145.8	1.43	-	-	100
Lawrence (KS)	1,338	129.1	27.33	.45	-	-	-	-	348	195.9	2.02	99	-	1
Tecumseh (KS)	400	130.9	27.35	.46	-	-	-	-	156	183.5	1.92	98	-	2
Jeffrey Energy Cnt (KS)	7,491	134.1	22.41	.34	-	-	-	-	-	-	-	100	-	-
Kentucky Power Co	**2,735**	**122.6**	**29.38**	**1.08**	**30**	**531.1**	**30.98**	**.00**	**-**	**-**	**-**	**100**	*****	**-**
Big Sandy (KY)	2,735	122.6	29.38	1.08	30	531.1	30.98	.00	-	-	-	100	*	-
Kentucky Utilities Co	**6,534**	**126.2**	**30.70**	**1.52**	**35**	**561.1**	**32.99**	**.40**	**-**	**-**	**-**	**100**	*****	**-**

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Kentucky Utilities Co														
Brown (KY)	1,699	117.8	28.54	2.01	8	598.5	35.19	0.40	-	-	-	100	*	-
Ghent (KY)	4,324	131.3	32.13	1.28	23	550.4	32.36	.40	-	-	-	100	*	-
Green River (KY)	456	107.2	25.07	2.13	1	795.0	46.75	.40	-	-	-	100	*	-
Tyrone (KY)	56	131.6	31.87	.85	3	461.5	27.14	.40	-	-	-	99	1	-
Lafayette City of	-	-	-	-	-	-	-	-	3,430	177.0	1.85	-	-	100
Bonin (LA)	-	-	-	-	-	-	-	-	3,430	177.0	1.85	-	-	100
Lake Worth City of	-	-	-	-	-	-	-	-	657	253.4	2.61	-	-	100
Tom G Smith (FL)	-	-	-	-	-	-	-	-	657	253.4	2.61	-	-	100
Lakeland City of	902	208.4	51.02	1.09	210	275.8	17.22	2.00	3,534	215.5	2.22	82	5	13
Larsen Mem (FL)	-	-	-	-	16	406.5	24.84	1.33	57	239.6	2.47	-	62	38
Plant 3-Mcintosh (FL)	902	208.4	51.02	1.09	195	265.5	16.60	2.06	3,476	215.1	2.22	82	5	13
Lansing City of	1,143	181.5	47.30	.85	9	442.0	25.73	.28	-	-	-	100	*	-
Eckert (MI)	581	184.8	48.17	.85	8	442.0	25.72	.28	-	-	-	100	*	-
Erickson (MI)	562	178.1	46.40	.85	1	442.0	25.82	.26	-	-	-	100	*	-
Ottawa (MI)	-	-	-	-	*	442.0	25.62	.30	-	-	-	-	100	-
Long Island Lighting Co	-	-	-	-	16,181	333.3	21.20	.84	33,453	222.2	2.29	-	75	25
Barrett (NY)	-	-	-	-	700	449.6	28.10	.36	20,103	231.1	2.38	-	17	83
Far Rockaway (NY)	-	-	-	-	249	422.1	26.33	.29	3,952	217.2	2.24	-	28	72
Glenwood (NY)	-	-	-	-	362	469.9	29.26	.32	9,398	205.3	2.12	-	19	81
Northport (NY)	-	-	-	-	11,506	324.2	20.67	.88	-	-	-	-	100	-
Port Jefferson (NY)	-	-	-	-	3,364	319.9	20.33	.91	-	-	-	-	100	-
Los Angeles City of	4,822	143.8	33.65	.51	1,434	592.3	36.41	.24	40,312	325.5	3.39	69	5	26
Harbor (CA)	-	-	-	-	-	-	-	-	583	289.4	3.01	-	-	100
Haynes (CA)	-	-	-	-	1,434	592.3	36.41	.24	22,145	320.6	3.35	-	28	72
Scattergood (CA)	-	-	-	-	-	-	-	-	15,705	337.9	3.50	-	-	100
Valley (CA)	-	-	-	-	-	-	-	-	1,879	291.0	3.04	-	-	100
Intermountain (UT)	4,822	143.8	33.65	.51	-	-	-	-	-	-	-	100	-	-
Louisiana Power & Light Co	-	-	-	-	137	417.6	25.32	.52	112,563	142.6	1.49	-	1	99
Little Gypsy (LA)	-	-	-	-	24	499.0	29.61	.26	31,297	131.4	1.37	-	*	100
Nine Mile (LA)	-	-	-	-	40	491.2	30.23	.29	53,202	135.3	1.42	-	*	100
Sterlington (LA)	-	-	-	-	27	517.9	29.81	.26	1,727	201.3	2.11	-	8	92
Waterford (LA)	-	-	-	-	46	260.4	16.23	1.02	26,337	166.9	1.74	-	1	99
Louisville Gas & Electric Co	5,404	112.0	25.74	3.03	52	596.6	35.08	.28	192	295.3	3.03	100	*	*
Cane Run (KY)	1,223	118.7	27.11	2.92	1	671.8	39.50	.30	87	288.4	2.96	100	*	*
Mill Creek (KY)	3,858	111.1	25.60	3.08	28	475.3	27.95	.22	105	301.0	3.09	100	*	*
Trimble County (KY)	324	97.1	22.31	2.82	23	740.3	43.53	.36	-	-	-	98	2	-
Lower Colorado River Authority	5,677	127.8	22.00	.40	43	547.9	32.45	.00	17,452	174.7	1.79	84	*	15
Gideon (TX)	-	-	-	-	11	700.6	41.49	.00	10,343	178.6	1.81	-	1	99
T C Ferguson (TX)	-	-	-	-	-	-	-	-	7,109	169.2	1.77	-	-	100
S Seymour-Fayette (TX)	5,677	127.8	22.00	.40	32	495.5	29.34	.00	-	-	-	100	*	-
Lubbock City of	-	-	-	-	-	-	-	-	6,882	221.5	2.30	-	-	100
Holly Ave (TX)	-	-	-	-	-	-	-	-	6,875	221.5	2.30	-	-	100
Plant 2 (TX)	-	-	-	-	-	-	-	-	7	177.0	1.84	-	-	100
Madison Gas & Electric Co	100	166.3	40.38	2.07	-	-	-	-	424	315.8	3.16	85	-	15
Blount (WI)	100	166.3	40.38	2.07	-	-	-	-	424	315.8	3.16	85	-	15
Manitowoc City of	130	185.6	48.86	.85	-	-	-	-	-	-	-	100	-	-
Manitowoc (WI)	130	185.6	48.86	.85	-	-	-	-	-	-	-	100	-	-
Marquette City of	141	180.2	33.87	.60	1	626.4	36.31	.00	-	-	-	100	*	-
Shiras (MI)	141	180.2	33.87	.60	1	626.4	36.31	.00	-	-	-	100	*	-
Medina Electric Coop Inc	-	-	-	-	-	-	-	-	21	234.9	2.60	-	-	100
Pearsall (TX)	-	-	-	-	-	-	-	-	21	234.9	2.60	-	-	100

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Metropolitan Edison Co	**1,395**	**166.6**	**44.11**	**1.77**	**35**	**515.6**	**29.92**	**0.20**	**-**	**-**	**-**	**99**	**1**	**-**
Portland (PA)	857	163.5	43.27	1.93	21	517.9	30.08	.22	-	-	-	99	1	-
Titus (PA)	538	171.5	45.44	1.51	14	512.2	29.68	.17	-	-	-	99	1	-
Michigan South Central Pwr Agy	**143**	**204.0**	**47.87**	**3.39**	**7**	**385.1**	**21.51**	**.39**	**-**	**-**	**-**	**99**	**1**	**-**
Project I (MI)	143	204.0	47.87	3.39	7	385.1	21.51	.39	-	-	-	99	1	-
Minnesota Power & Light Co	**4,037**	**135.6**	**23.65**	**.71**	**20**	**548.4**	**31.55**	**.00**	**-**	**-**	**-**	**100**	*****	**-**
Aurora-Syl Laskin (MN)	44	176.1	33.20	.64	2	652.1	37.52	.00	-	-	-	98	2	-
Boswell (MN)	3,993	135.1	23.55	.71	18	534.6	30.76	.00	-	-	-	100	*	-
Minnkota Power Coop Inc	**4,100**	**47.0**	**6.44**	**1.01**	**7**	**529.2**	**31.12**	**.40**	**-**	**-**	**-**	**100**	*****	**-**
Young (ND)	4,100	47.0	6.44	1.01	7	529.2	31.12	.40	-	-	-	100	*	-
Mississippi Power & Light Co	**-**	**-**	**-**	**-**	**1,193**	**242.2**	**15.40**	**2.85**	**34,490**	**179.0**	**1.87**	**-**	**17**	**83**
Wilson (MS)	-	-	-	-	695	231.2	14.65	2.73	12,603	180.5	1.87	-	25	75
Delta (MS)	-	-	-	-	-	-	-	-	938	184.8	1.93	-	-	100
Brown (MS)	-	-	-	-	-	-	-	-	8,721	187.3	1.96	-	-	100
Gerald Andrus (MS)	-	-	-	-	498	257.6	16.44	3.01	12,228	171.2	1.79	-	20	80
Mississippi Power Co	**3,146**	**156.1**	**39.25**	**1.80**	**15**	**266.7**	**16.41**	**2.06**	**11,676**	**170.5**	**1.76**	**87**	*****	**13**
Eaton (MS)	-	-	-	-	11	190.0	12.03	2.89	845	166.6	1.70	-	7	93
Sweatt (MS)	-	-	-	-	2	373.8	21.80	.14	882	180.7	1.87	-	1	99
Watson (MS)	1,924	149.4	36.77	2.49	-	-	-	-	9,950	170.0	1.75	82	-	18
Daniel (MS)	1,222	166.1	43.17	.72	3	495.9	28.44	.32	-	-	-	100	*	-
Missouri Public Service Comm	**857**	**162.3**	**35.91**	**3.02**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Sibley (MO)	857	162.3	35.91	3.02	-	-	-	-	-	-	-	100	-	-
Monongahela Power Co	**12,173**	**131.8**	**33.54**	**2.72**	**98**	**562.5**	**33.31**	**.29**	**169**	**513.3**	**5.13**	**100**	*****	*****
Albright (WV)	617	111.0	27.60	1.63	9	569.1	33.70	.16	-	-	-	100	*	-
Ft Martin (WV)	2,413	149.8	37.72	1.83	22	577.4	34.20	.30	-	-	-	100	*	-
Harrison (WV)	4,961	138.5	36.30	3.10	4	594.7	35.22	.30	162	523.9	5.24	100	*	*
Rivesville (WV)	220	134.2	33.07	.97	4	551.2	32.64	.30	2	258.6	2.59	99	*	*
Willow Island (WV)	410	129.8	32.26	1.39	4	577.7	34.21	.30	4	258.7	2.59	100	*	*
Pleasants (WV)	3,553	113.1	28.07	3.23	54	552.4	32.72	.30	-	-	-	100	*	-
Montana Power Co	**9,343**	**66.3**	**11.42**	**.63**	**40**	**543.2**	**32.17**	**.00**	**276**	**137.2**	**1.67**	**100**	*****	*****
Corette (MT)	545	70.8	12.37	.60	-	-	-	-	276	137.2	1.67	97	-	3
Colstrip (MT)	8,798	66.1	11.36	.64	40	543.2	32.17	.00	-	-	-	100	*	-
Montana-Dakota Utilities Co	**2,332**	**81.3**	**11.24**	**1.00**	**14**	**514.3**	**29.49**	**.30**	**11**	**373.1**	**4.21**	**100**	*****	*****
Heskett (ND)	416	103.4	14.65	.88	-	-	-	-	*	386.2	4.01	100	-	*
Lewis and Clark (MT)	176	109.9	14.42	.52	-	-	-	-	10	372.9	4.21	99	-	1
Coyote (ND)	1,740	73.1	10.11	1.08	14	514.3	29.49	.30	-	-	-	100	*	-
Montaup Electric Co	**411**	**181.5**	**47.53**	**1.15**	**104**	**394.9**	**24.09**	**.57**	**-**	**-**	**-**	**94**	**6**	**-**
Somerset (MA)	411	181.5	47.53	1.15	104	394.9	24.09	.57	-	-	-	94	6	-
Muscatine City of	**530**	**192.0**	**43.03**	**3.13**	**3**	**613.2**	**35.67**	**.00**	**19**	**255.7**	**2.56**	**100**	*****	*****
Muscatine (IA)	530	192.0	43.03	3.13	3	613.2	35.67	.00	19	255.7	2.56	100	*	*
Nebraska Public Power District	**3,831**	**82.1**	**14.46**	**.37**	**24**	**728.5**	**42.27**	**.28**	**281**	**270.5**	**2.58**	**99**	*****	*****
Sheldon (NE)	593	79.5	14.05	.39	-	-	-	-	18	378.3	3.77	100	-	*
Gerald Gentleman (NE)	3,238	82.6	14.53	.37	24	728.5	42.27	.28	263	262.9	2.50	99	*	*
Nevada Power Co	**1,886**	**177.6**	**42.26**	**.63**	**207**	**299.0**	**18.67**	**.87**	**4,001**	**304.1**	**3.14**	**89**	**3**	**8**
Clark (NV)	-	-	-	-	62	264.9	16.53	1.03	2,472	301.0	3.11	-	13	87
Gardner (NV)	1,886	177.6	42.26	.63	5	722.0	41.39	.25	-	-	-	100	*	-
Sunrise (NV)	-	-	-	-	140	300.1	18.80	.83	1,529	309.1	3.19	-	36	64
New England Power Co	**3,304**	**171.9**	**44.90**	**1.22**	**8,015**	**297.0**	**18.85**	**1.88**	**5,933**	**216.9**	**2.24**	**60**	**36**	**4**
Brayton (MA)	2,420	170.0	44.30	1.24	3,953	286.0	18.12	1.97	-	-	-	72	28	-
Salem Harbor (MA)	883	177.2	46.56	1.18	3,691	302.4	19.21	1.88	-	-	-	50	50	-
Manchester St (RI)	-	-	-	-	372	358.9	22.98	.93	3,391	220.2	2.28	-	40	60
South St (RI)	-	-	-	-	-	-	-	-	2,543	212.5	2.20	-	-	100

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
New Orleans Public Service Inc	-	-	-	-	21	259.5	16.55	1.49	22,851	182.9	1.88	-	1	99
Michoud (LA)	-	-	-	-	21	259.5	16.55	1.49	22,851	182.9	1.88	-	1	99
New York State Elec & Gas Corp	4,518	153.1	38.24	2.13	27	661.7	38.07	.14	-	-	-	100	*	-
Goudey (NY)	387	159.1	40.42	1.83	5	668.0	38.44	.14	-	-	-	100	*	-
Greenidge (NY)	481	158.7	39.19	1.99	11	639.3	36.78	.14	-	-	-	99	1	-
Hickling (NY)	381	153.4	32.98	1.22	-	-	-	-	-	-	-	100	-	-
Jennison (NY)	267	178.7	38.50	1.05	-	-	-	-	-	-	-	100	-	-
Milliken (NY)	982	163.5	40.20	1.94	2	611.7	35.20	.14	-	-	-	100	*	-
Somerset (NY)	2,019	143.1	37.60	2.62	9	695.8	40.04	.14	-	-	-	100	*	-
Niagara Mohawk Power Corp	3,494	149.9	39.35	1.98	10,832	343.8	21.70	1.12	21,280	241.4	2.50	50	38	12
Albany (NY)	-	-	-	-	1,429	289.5	18.32	1.42	15,990	231.1	2.40	-	35	65
Huntley (NY)	1,952	155.2	40.77	1.79	3	801.2	46.05	.29	-	-	-	100	*	-
Dunkirk (NY)	1,542	143.3	37.54	2.23	1	773.6	45.00	.51	-	-	-	100	*	-
Oswego (NY)	-	-	-	-	9,399	351.9	22.21	1.08	5,290	272.6	2.81	-	92	8
Northern Indiana Pub Serv Co	6,436	162.8	35.53	1.87	-	-	-	-	5,849	252.3	2.52	96	-	4
Bailly (IN)	1,140	134.5	30.09	2.96	-	-	-	-	192	256.3	2.56	99	-	1
Mitchell (IN)	965	148.8	30.25	.50	-	-	-	-	1,593	235.4	2.35	92	-	8
Michigan City (IN)	1,126	148.2	33.52	2.17	-	-	-	-	3,731	258.7	2.59	87	-	13
Rollin Schahfer (IN)	3,204	182.3	39.76	1.79	-	-	-	-	333	258.5	2.58	100	-	*
Northern States Power Co	12,221	121.2	21.27	.44	-	-	-	-	867	204.6	2.06	100	-	*
Black Dog (MN)	534	133.4	23.53	.31	-	-	-	-	485	198.3	1.99	95	-	5
High Bridge (MN)	563	108.4	19.14	.27	-	-	-	-	274	200.4	2.02	97	-	3
King (MN)	1,605	127.6	22.51	.41	-	-	-	-	-	-	-	100	-	-
Riverside (MN)	1,032	103.1	18.19	.26	-	-	-	-	108	244.1	2.45	99	-	1
Sherburne County (MN)	8,488	122.2	21.40	.48	-	-	-	-	-	-	-	100	-	-
Ohio Edison Co	7,853	128.7	31.27	2.08	54	532.4	30.70	.26	31	297.0	3.17	100	*	*
Edgewater (OH)	236	135.7	32.20	1.85	6	549.1	31.66	.22	-	-	-	99	1	-
Gorge Steam (OH)	107	133.8	33.21	2.21	3	527.2	30.36	.23	-	-	-	99	1	-
Niles (OH)	535	109.2	25.86	2.88	2	581.8	33.47	.23	31	297.0	3.17	100	*	*
Burger (OH)	1,305	117.6	27.87	3.00	4	561.9	32.45	.37	-	-	-	100	*	-
Sammis (OH)	5,353	134.2	32.96	1.67	36	522.7	30.14	.27	-	-	-	100	*	-
Toronto (OH)	317	104.7	24.52	4.06	2	540.9	31.12	.23	-	-	-	100	*	-
Ohio Power Co	14,633	173.5	40.16	3.25	160	582.3	33.61	.00	-	-	-	100	*	-
Muskingum (OH)	3,287	173.0	39.66	4.17	42	559.3	31.93	.00	-	-	-	100	*	-
Tidd (OH)	11	129.6	31.64	3.21	-	-	-	-	-	-	-	100	-	-
Kammer (WV)	1,951	129.8	31.58	4.26	4	624.5	35.69	.00	-	-	-	100	*	-
Mitchell (WV)	2,962	181.8	43.29	1.32	58	582.3	33.99	.00	-	-	-	100	*	-
Gavin (OH)	6,421	184.1	41.59	3.36	55	596.4	34.31	.00	-	-	-	100	*	-
Ohio Valley Electric Corp	3,510	121.5	28.82	3.80	4	563.9	32.65	.27	-	-	-	100	*	-
Kyger Creek (OH)	3,510	121.5	28.82	3.80	4	563.9	32.65	.27	-	-	-	100	*	-
Oklahoma Gas & Electric Co	6,549	138.6	25.11	.44	115	320.1	20.97	1.09	83,757	306.2	3.18	58	*	42
Horseshoe Lake (OK)	-	-	-	-	-	-	-	-	23,364	304.1	3.15	-	-	100
Muskogee (OK)	3,487	136.8	24.92	.44	*	301.0	19.92	1.01	6,381	310.4	3.22	91	*	9
Mustang (OK)	-	-	-	-	-	-	-	-	10,577	306.3	3.18	-	-	100
Seminole (OK)	-	-	-	-	110	302.2	19.88	1.12	43,435	306.7	3.18	-	2	98
Sooner (OK)	3,061	140.7	25.33	.43	5	751.0	45.26	.31	-	-	-	100	*	-
Omaha Public Power District	3,448	65.7	10.90	.34	4	561.6	32.43	.20	321	237.0	2.35	99	*	1
North Omaha (NE)	1,530	65.9	11.01	.35	-	-	-	-	321	237.0	2.35	99	-	1
Nebraska City (NE)	1,918	65.5	10.81	.33	4	561.6	32.43	.20	-	-	-	100	*	-
Orange & Rockland Utils Inc	687	214.6	56.24	.57	4,784	375.1	23.38	.33	30,379	265.5	2.75	23	38	40
Bowline (NY)	-	-	-	-	4,784	375.1	23.38	.33	25,563	261.6	2.71	-	53	47
Lovett (NY)	687	214.6	56.24	.57	-	-	-	-	4,816	286.4	2.96	78	-	22
Orlando Utilities Comm	996	189.7	48.30	.80	1,011	201.5	12.81	1.45	11,671	237.8	2.45	58	15	27
Stanton Energy (FL)	996	189.7	48.30	.80	9	368.1	22.37	.58	-	-	-	100	*	-
Indian River (FL)	-	-	-	-	1,002	200.0	12.72	1.46	11,671	237.8	2.45	-	35	65

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Otter Tail Power Co	**2,253**	**115.9**	**14.70**	**0.86**	**11**	**548.1**	**32.23**	**0.31**	**-**	**-**	**-**	**100**	*****	**-**
Hoot Lake (MN)	175	126.2	23.36	.38	4	512.7	30.14	.31	-	-	-	99	1	-
Big Stone (SD)	2,078	114.6	13.97	.90	7	565.3	33.24	.31	-	-	-	100	*	-
Owensboro City of	**1,003**	**110.2**	**23.52**	**2.97**	**4**	**613.7**	**35.57**	**.38**	**-**	**-**	**-**	**100**	*****	**-**
Smith (KY)	1,003	110.2	23.52	2.97	4	613.7	35.57	.38	-	-	-	100	*	-
Pacific Gas & Electric Co	**-**	**-**	**-**	**-**	**3,471**	**426.0**	**26.20**	**.46**	**229,832**	**308.8**	**3.17**	**-**	**8**	**92**
Contra Costa (CA)	-	-	-	-	-	-	-	-	21,359	312.2	3.19	-	-	100
Humboldt Bay (CA)	-	-	-	-	39	207.5	12.82	1.47	1,474	311.0	3.18	-	14	86
Hunters Point (CA)	-	-	-	-	-	-	-	-	17,016	308.2	3.14	-	-	100
Morro Bay (CA)	-	-	-	-	479	413.4	25.50	.71	35,157	306.9	3.18	-	8	92
Moss Landing (CA)	-	-	-	-	1,070	387.6	23.80	.52	71,472	309.3	3.20	-	8	92
Pittsburg (CA)	-	-	-	-	1,706	449.0	27.60	.32	74,651	307.4	3.14	-	12	88
Potrero (CA)	-	-	-	-	177	517.7	32.00	.45	8,702	316.6	3.22	-	11	89
PacifiCorp	**28,990**	**98.5**	**18.75**	**.59**	**99**	**519.8**	**30.58**	**.30**	**70**	**314.9**	**3.26**	**100**	*****	*****
Carbon (UT)	585	92.6	22.13	.56	-	-	-	-	-	-	-	100	-	-
Centralia (WA)	5,044	157.6	25.64	.70	25	514.5	30.41	.30	-	-	-	100	*	-
Johnston (WY)	4,041	62.3	9.83	.41	16	494.2	28.67	.30	-	-	-	100	*	-
Naughton (WY)	2,518	116.9	22.43	.86	1	787.3	46.29	.30	70	314.9	3.26	100	*	*
Wyodak (WY)	1,945	61.2	9.82	.65	3	454.7	26.80	.30	-	-	-	100	*	-
Emery-Hunter (UT)	4,267	75.4	17.16	.48	8	568.4	33.42	.30	-	-	-	100	*	-
Jim Bridger (WY)	7,758	105.2	20.34	.61	31	518.7	30.62	.30	-	-	-	100	*	-
Huntington (UT)	2,832	83.8	19.38	.47	15	527.1	30.99	.30	-	-	-	100	*	-
Painesville City of	**88**	**138.2**	**33.76**	**2.85**	**-**	**-**	**-**	**-**	**18**	**441.8**	**4.42**	**99**	**-**	**1**
Painesville (OH)	88	138.2	33.76	2.85	-	-	-	-	18	441.8	4.42	99	-	1
Pasadena City of	**-**	**-**	**-**	**-**	**29**	**286.6**	**17.97**	**.20**	**3,813**	**330.4**	**3.40**	**-**	**4**	**96**
Broadway (CA)	-	-	-	-	29	286.6	17.97	.20	3,813	330.4	3.40	-	4	96
Pennsylvania Electric Co	**17,920**	**145.4**	**35.13**	**1.81**	**224**	**535.0**	**31.19**	**.05**	**-**	**-**	**-**	**100**	*****	**-**
Conemaugh (PA)	4,850	155.4	38.37	2.21	37	527.4	30.74	.05	-	-	-	100	*	-
Front St (PA)	205	146.1	36.01	1.89	1	527.9	30.77	.05	-	-	-	100	*	-
Homer City (PA)	5,978	149.5	35.01	1.61	50	592.1	34.52	.05	-	-	-	100	*	-
Seward (PA)	537	129.3	31.13	1.56	23	554.7	32.34	.05	-	-	-	99	1	-
Shawville (PA)	1,606	118.5	28.74	1.93	54	483.2	28.17	.05	-	-	-	99	1	-
Warren (PA)	243	136.2	33.76	1.86	1	642.1	37.43	.05	-	-	-	100	*	-
Keystone (PA)	4,501	141.0	34.59	1.62	58	529.4	30.86	.05	-	-	-	100	*	-
Pennsylvania Power & Light Co	**10,433**	**170.9**	**41.53**	**1.84**	**3,819**	**349.4**	**22.08**	**.86**	**-**	**-**	**-**	**91**	**9**	**-**
Brunner Island (PA)	3,930	183.0	45.43	1.95	66	524.6	30.48	.11	-	-	-	100	*	-
Holtwood (PA)	299	112.3	18.82	.66	-	-	-	-	-	-	-	100	-	-
Martins Creek (PA)	738	176.1	45.05	1.96	-	-	-	-	-	-	-	100	-	-
Montour (PA)	4,363	171.1	42.68	1.88	36	593.6	34.66	.12	-	-	-	100	*	-
Sunbury (PA)	1,103	127.7	26.91	1.54	3	514.3	29.74	.12	-	-	-	100	*	-
Storage Facility #1	-	-	-	-	3,714	344.2	21.80	.88	-	-	-	-	100	-
Pennsylvania Power Co	**6,761**	**149.0**	**36.00**	**3.88**	**85**	**410.5**	**23.74**	**.29**	**-**	**-**	**-**	**100**	*****	**-**
New Castle (PA)	717	129.1	31.26	1.47	13	568.1	32.98	.22	-	-	-	100	*	-
Bruce Mansfield (PA)	6,044	151.3	36.57	4.17	73	383.0	22.14	.30	-	-	-	100	*	-
Philadelphia Electric Co	**802**	**167.5**	**43.78**	**1.52**	**3,016**	**330.7**	**20.89**	**.50**	**-**	**-**	**-**	**52**	**48**	**-**
Cromby (PA)	185	165.0	43.02	1.38	6	628.4	36.99	.17	-	-	-	99	1	-
Delaware (PA)	-	-	-	-	709	316.3	20.04	.45	-	-	-	-	100	-
Eddystone (PA)	617	168.2	44.01	1.56	1,273	329.1	20.85	.43	-	-	-	67	33	-
Schuylkill (PA)	-	-	-	-	613	340.4	21.34	.44	-	-	-	-	100	-
Storage Facility #1	-	-	-	-	415	342.3	21.57	.89	-	-	-	-	100	-
Plains Elec Gen&Trans Coop Inc	**836**	**131.4**	**24.24**	**.65**	**-**	**-**	**-**	**-**	**21**	**415.7**	**3.60**	**100**	**-**	*****
Escalante (NM)	836	131.4	24.24	.65	-	-	-	-	21	415.7	3.60	100	-	*
Platte River Power Authority	**1,089**	**73.1**	**12.83**	**.32**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Rawhide (CO)	1,089	73.1	12.83	.32	-	-	-	-	-	-	-	100	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Portland General Electric Co	**968**	**107.9**	**18.02**	**0.31**	**13**	**347.3**	**20.28**	**0.48**	**-**	**-**	**-**	**100**	*****	**-**
Boardman (OR)	968	107.9	18.02	.31	13	347.3	20.28	.48	-	-	-	100	*	-
Potomac Edison Co	**205**	**151.4**	**39.05**	**1.02**	**6**	**528.1**	**31.27**	**.30**	**-**	**-**	**-**	**99**	**1**	**-**
Smith (MD)	205	151.4	39.05	1.02	6	528.1	31.27	.30	-	-	-	99	1	-
Potomac Electric Power Co	**7,202**	**172.0**	**43.51**	**1.56**	**3,583**	**317.8**	**19.78**	**1.31**	**8,556**	**233.1**	**2.43**	**85**	**10**	**4**
Benning (DC)	-	-	-	-	771	363.3	21.86	.93	-	-	-	-	100	-
Chalk (MD)	1,909	176.7	44.40	1.85	2,550	307.5	19.35	1.41	8,556	233.1	2.43	66	22	12
Dickerson (MD)	1,608	151.5	38.08	1.49	9	424.9	24.61	.20	-	-	-	100	*	-
Morgantown (MD)	2,747	175.0	44.43	1.68	238	275.1	17.15	1.57	-	-	-	98	2	-
Potomac River (VA)	937	188.4	48.31	.77	15	449.0	25.94	.20	-	-	-	100	*	-
Power Authority of State of NY	**-**	**-**	**-**	**-**	**1,357**	**409.8**	**25.51**	**.26**	**23,986**	**277.6**	**2.86**	**-**	**25**	**75**
Poletti (NY)	-	-	-	-	1,357	409.8	25.51	.26	23,986	277.6	2.86	-	25	75
Public Service Co of Colorado	**7,272**	**113.9**	**21.41**	**.37**	**30**	**528.3**	**30.41**	**.33**	**2,160**	**[2] 207.4**	**2.04**	**98**	*****	**2**
Arapahoe (CO)	569	115.5	25.29	.43	-	-	-	-	75	207.7	2.03	99	-	1
Cameo (CO)	193	96.0	21.98	.57	*	693.8	39.78	.24	70	365.9	3.75	98	*	2
Cherokee (CO)	1,815	118.2	25.14	.43	-	-	-	-	1,800	198.2	1.94	96	-	4
Comanche (CO)	2,239	116.4	19.77	.32	13	533.7	30.70	.29	12	194.8	1.95	100	*	*
Valmont (CO)	426	107.9	23.77	.45	-	-	-	-	37	[2] 343.6	3.39	100	-	*
Zuni (CO)	-	-	-	-	-	-	-	-	165	206.7	2.03	-	-	100
Pawnee (CO)	2,030	109.6	18.24	.34	17	523.5	30.14	.36	-	-	-	100	*	-
Public Service Co of IN Inc	**13,586**	**146.0**	**31.78**	**2.37**	**134**	**514.2**	**29.59**	**.30**	**-**	**-**	**-**	**100**	*****	**-**
Cayuga (IN)	2,882	125.5	27.25	2.23	13	536.5	30.87	.30	-	-	-	100	*	-
Edwardsport (IN)	101	116.6	24.86	2.66	3	619.7	35.66	.30	-	-	-	99	1	-
Noblesville (IN)	40	130.8	29.47	1.98	4	549.1	31.60	.30	-	-	-	97	3	-
Gallagher (IN)	1,090	134.9	29.56	2.35	31	509.7	29.33	.30	-	-	-	99	1	-
Wabash River (IN)	1,631	126.4	27.60	2.08	37	509.8	29.33	.30	-	-	-	99	1	-
Gibson Station (IN)	7,841	159.7	34.72	2.48	46	504.7	29.04	.30	-	-	-	100	*	-
Public Service Co of NH	**1,271**	**178.1**	**47.39**	**1.81**	**4,292**	**226.9**	**14.71**	**1.86**	**-**	**-**	**-**	**55**	**45**	**-**
Merrimack (NH)	971	174.5	46.65	2.13	3	539.3	31.39	.23	-	-	-	100	*	-
Schiller (NH)	300	190.0	49.81	.80	222	180.2	11.81	1.88	-	-	-	84	16	-
Newington Station (NH)	-	-	-	-	4,068	229.3	14.85	1.86	-	-	-	-	100	-
Public Service Co of NM	**5,683**	**170.4**	**32.87**	**.80**	**55**	**524.5**	**30.42**	**.75**	**246**	**307.7**	**3.23**	**99**	*****	*****
Reeves (NM)	-	-	-	-	-	-	-	-	246	307.7	3.23	-	-	100
San Juan (NM)	5,683	170.4	32.87	.80	55	524.5	30.42	.75	-	-	-	100	*	-
Public Service Co of Oklahoma	**3,312**	**164.2**	**29.35**	**.48**	**-**	**-**	**-**	**-**	**52,985**	**302.7**	**3.20**	**51**	**-**	**49**
Northeastern (OK)	3,312	164.2	29.35	.48	-	-	-	-	14,737	309.6	3.36	79	-	21
Southwestern (OK)	-	-	-	-	-	-	-	-	8,336	309.7	3.31	-	-	100
Riverside (OK)	-	-	-	-	-	-	-	-	29,912	297.2	3.09	-	-	100
Public Service Electric&Gas Co	**2,064**	**179.4**	**48.67**	**.80**	**1,585**	**343.8**	**21.26**	**.30**	**30,182**	**212.6**	**2.19**	**58**	**10**	**32**
Bergen (NJ)	-	-	-	-	39	418.6	25.83	.26	12,989	217.4	2.25	-	2	98
Burlington (NJ)	-	-	-	-	242	294.3	18.49	.45	-	-	-	-	100	-
Hudson (NJ)	1,100	180.9	47.37	.80	62	526.1	32.72	.29	9,183	202.4	2.09	75	1	25
Kearny (NJ)	-	-	-	-	174	257.5	15.89	.27	-	-	-	-	100	-
Linden (NJ)	-	-	-	-	1,069	355.8	21.93	.27	-	-	-	-	100	-
Mercer (NJ)	963	177.8	50.16	.80	-	-	-	-	1,770	224.8	2.32	94	-	6
Sewaren (NJ)	-	-	-	-	*	805.0	46.47	.13	6,239	214.0	2.21	-	*	100
Puget Sound Power & Light Co	**-**	**-**	**-**	**-**	*****	**305.0**	**19.98**	**2.00**	**-**	**-**	**-**	**-**	**100**	**-**
Shuffleton (WA)	-	-	-	-	*	305.0	19.98	2.00	-	-	-	-	100	-
Richmond City of	**235**	**159.0**	**36.07**	**2.63**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Whitewater (IN)	235	159.0	36.07	2.63	-	-	-	-	-	-	-	100	-	-
Rochester City of	**65**	**174.4**	**42.12**	**1.62**	**-**	**-**	**-**	**-**	**735**	**190.4**	**1.91**	**68**	**-**	**32**
Silver Lake (MN)	65	174.4	42.12	1.62	-	-	-	-	735	190.4	1.91	68	-	32

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Rochester Gas & Electric Corp	**813**	**160.7**	**42.36**	**2.12**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Rochester 3 (NY)	212	160.8	42.61	2.13	-	-	-	-	-	-	-	100	-	-
Rochester 7 (NY)	601	160.6	42.27	2.11	-	-	-	-	-	-	-	100	-	-
Ruston City of	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1,836**	**192.9**	**2.04**	**-**	**-**	**100**
Steam Plant (LA)	-	-	-	-	-	-	-	-	1,836	192.9	2.04	-	-	100
S Mississippi Elec Pwr Assn	**775**	**203.5**	**50.57**	**.97**	**7**	**386.4**	**22.64**	**0.27**	**6,436**	**173.1**	**1.74**	**75**	*****	**25**
Moselle (MS)	-	-	-	-	-	-	-	-	6,436	173.1	1.74	-	-	100
R D Morrow (MS)	775	203.5	50.57	.97	7	386.4	22.64	.27	-	-	-	100	*	-
Salt River Proj Ag I & P Dist	**9,314**	**121.1**	**26.10**	**.48**	**180**	**413.6**	**24.97**	**.57**	**4,581**	**229.6**	**2.38**	**97**	**1**	**2**
Agua Fria (AZ)	-	-	-	-	96	355.8	22.08	.87	4,301	229.5	2.38	-	12	88
Kyrene (AZ)	-	-	-	-	-	-	-	-	280	231.7	2.40	-	-	100
Navajo (AZ)	7,276	100.6	22.23	.48	46	466.4	27.15	.16	-	-	-	100	*	-
Coronado (AZ)	2,038	203.4	39.94	.47	38	504.9	29.64	.29	-	-	-	99	1	-
San Antonio City of	**2,655**	**126.5**	**21.19**	**.40**	**-**	**-**	**-**	**-**	**39,724**	**187.2**	**1.91**	**52**	**-**	**48**
Leon Creek (TX)	-	-	-	-	-	-	-	-	55	176.9	1.82	-	-	100
Mission Rd (TX)	-	-	-	-	-	-	-	-	61	178.6	1.82	-	-	100
Sommers (TX)	-	-	-	-	-	-	-	-	23,762	184.8	1.88	-	-	100
Braunig (TX)	-	-	-	-	-	-	-	-	14,523	191.5	1.95	-	-	100
Tuttle (TX)	-	-	-	-	-	-	-	-	1,322	182.7	1.91	-	-	100
J T Deely (TX)	2,655	126.5	21.19	.40	-	-	-	-	-	-	-	100	-	-
San Diego Gas & Electric Co	**-**	**-**	**-**	**-**	**1,627**	**347.8**	**21.49**	**.42**	**33,992**	**255.2**	**2.63**	**-**	**22**	**78**
Encina (CA)	-	-	-	-	1,220	340.5	21.01	.46	15,525	254.8	2.64	-	32	68
South Bay (CA)	-	-	-	-	407	369.9	22.94	.32	18,467	255.6	2.63	-	12	88
San Miguel Electric Coop Inc	**3,015**	**87.2**	**9.63**	**1.90**	*****	**425.1**	**24.66**	**.54**	**-**	**-**	**-**	**100**	*****	**-**
San Miquel (TX)	3,015	87.2	9.63	1.90	*	425.1	24.66	.54	-	-	-	100	*	-
Savannah Electric & Power Co	**790**	**169.6**	**43.00**	**1.04**	**46**	**247.2**	**15.39**	**2.13**	**1,165**	**302.4**	**3.10**	**93**	**1**	**6**
Port Wentworth (GA)	418	166.9	43.21	1.06	43	216.8	13.58	2.33	841	303.6	3.11	91	2	7
Riverside (GA)	-	-	-	-	-	-	-	-	324	299.4	3.06	-	-	100
McIntosh (GA)	372	172.9	42.77	1.01	4	605.4	35.09	.00	-	-	-	100	*	-
Seminole Electric Coop Inc	**3,144**	**204.6**	**49.59**	**2.89**	**42**	**523.7**	**31.19**	**.32**	**-**	**-**	**-**	**100**	*****	**-**
Seminole (FL)	3,144	204.6	49.59	2.89	42	523.7	31.19	.32	-	-	-	100	*	-
Sierra Pacific Power Co	**1,420**	**193.0**	**40.83**	**.39**	**75**	**357.1**	**22.05**	**.62**	**16,483**	**157.2**	**1.62**	**63**	**1**	**36**
Fort Churchill (NV)	-	-	-	-	61	306.7	19.17	.75	9,905	155.3	1.60	-	4	96
Tracy (NV)	-	-	-	-	1	274.0	17.12	.75	6,578	160.2	1.65	-	*	100
North Valmy (NV)	1,420	193.0	40.83	.39	13	618.1	35.96	.00	-	-	-	100	*	-
Sikeston City of	**650**	**149.5**	**33.94**	**2.63**	**3**	**510.9**	**30.26**	**.26**	**-**	**-**	**-**	**100**	*****	**-**
Sikeston (MO)	650	149.5	33.94	2.63	3	510.9	30.26	.26	-	-	-	100	*	-
South Carolina Electric&Gas Co	**4,501**	**166.8**	**42.73**	**1.19**	**96**	**625.9**	**36.28**	**.20**	**5,877**	**171.8**	**1.76**	**95**	*****	**5**
Canadys (SC)	768	170.8	43.76	1.26	8	611.2	35.42	.20	2,686	172.2	1.76	88	*	12
Hagood (SC)	-	-	-	-	-	-	-	-	18	163.7	1.67	-	-	100
Mcmeekin (SC)	563	163.8	42.99	1.31	9	647.5	37.53	.20	1,337	173.2	1.77	91	*	8
Urguhart (SC)	529	168.3	42.93	1.22	2	591.1	34.26	.20	1,836	170.2	1.74	88	*	12
Wateree (SC)	1,773	166.0	42.40	1.14	46	634.8	36.79	.20	-	-	-	99	1	-
Williams (SC)	869	165.7	42.21	1.13	31	612.4	35.50	.20	-	-	-	99	1	-
South Carolina Pub Serv Auth	**4,368**	**178.2**	**44.56**	**1.21**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Cross (SC)	1,358	178.0	44.52	1.12	-	-	-	-	-	-	-	100	-	-
Grainger (SC)	210	161.6	41.92	1.93	-	-	-	-	-	-	-	100	-	-
Jefferies (SC)	671	181.3	44.23	1.60	-	-	-	-	-	-	-	100	-	-
Winyah (SC)	2,129	179.0	44.95	1.06	-	-	-	-	-	-	-	100	-	-
Southern California Edison Co	**4,171**	**120.6**	**26.43**	**.53**	**5,743**	**432.6**	**26.40**	**.25**	**118,647**	**[2] 298.2**	**3.10**	**37**	**14**	**49**
Alamitos (CA)	-	-	-	-	-	-	-	-	32,291	294.9	3.09	-	-	100
Cool Water (CA)	-	-	-	-	-	-	-	-	3,222	[2] 368.9	3.82	-	-	100

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Southern California Edison Co														
El Segundo (CA)	-	-	-	-	-	-	-	-	14,996	305.5	3.16	-	-	100
Etiwanda (CA)	-	-	-	-	-	-	-	-	9,374	308.1	3.19	-	-	100
Highgrove (CA)	-	-	-	-	-	-	-	-	16	314.1	3.24	-	-	100
Huntington Beach (CA)	-	-	-	-	-	-	-	-	8,772	314.2	3.29	-	-	100
Mandalay (CA)	-	-	-	-	-	-	-	-	8,813	296.1	3.20	-	-	100
Ormond Beach (CA)	-	-	-	-	-	-	-	-	17,555	277.2	2.89	-	-	100
Redondo (CA)	-	-	-	-	-	-	-	-	21,225	295.8	3.00	-	-	100
San Bernardino (CA)	-	-	-	-	-	-	-	-	350	264.4	2.77	-	-	100
Mohave (NV)	4,171	120.6	26.43	0.53	-	-	-	-	2,032	292.3	3.02	98	-	2
Storage Facility #1	-	-	-	-	5,743	432.6	26.40	0.25	-	-	-	-	100	-
Southern Illinois Power Coop	**739**	**91.5**	**19.10**	**3.13**	**9**	**559.5**	**31.91**	**.00**	**-**	**-**	**-**	**100**	*****	**-**
Marion (IL)	739	91.5	19.10	3.13	9	559.5	31.91	.00	-	-	-	100	*	-
Southern Indiana Gas & Elec Co	**2,630**	**147.9**	**33.41**	**3.05**	**15**	**556.9**	**32.51**	**.39**	**38**	**299.0**	**3.07**	**100**	*****	*****
Culley (IN)	1,144	155.0	34.39	2.75	2	564.3	32.94	.38	21	287.3	2.94	100	*	*
A B Brown (IN)	1,188	149.1	34.43	3.38	14	556.0	32.46	.39	-	-	-	100	*	-
Warrick (IN)	297	115.8	25.59	2.87	-	-	-	-	17	313.2	3.21	100	-	*
Southwestern Electric Power Co	**9,450**	**173.0**	**27.23**	**.76**	**24**	**425.6**	**25.03**	**.06**	**16,604**	**271.0**	**2.72**	**90**	*****	**10**
Arsenal Hill (LA)	-	-	-	-	-	-	-	-	175	179.7	1.92	-	-	100
Lieberman (LA)	-	-	-	-	-	-	-	-	2,284	171.4	1.86	-	-	100
Knox Lee (TX)	-	-	-	-	-	-	-	-	3,633	178.0	1.90	-	-	100
Lone Star (TX)	-	-	-	-	-	-	-	-	69	745.9	6.60	-	-	100
Wilkes (TX)	-	-	-	-	-	-	-	-	10,395	330.6	3.18	-	-	100
Flint Creek (AR)	1,724	152.3	25.53	.33	14	439.6	25.85	.06	-	-	-	100	*	-
Welsh Station (TX)	4,687	206.8	34.67	.33	10	406.1	23.88	.06	-	-	-	100	*	-
Pirkey (TX)	3,039	123.1	16.72	1.66	-	-	-	-	48	261.1	2.82	100	-	*
Southwestern Public Service Co	**8,266**	**171.6**	**30.03**	**.38**	**2**	**447.4**	**26.12**	**.49**	**39,556**	**190.1**	**1.95**	**78**	*****	**22**
Maddox (NM)	-	-	-	-	-	-	-	-	5,353	186.5	1.94	-	-	100
Cunningham (NM)	-	-	-	-	-	-	-	-	12,057	175.7	1.83	-	-	100
Jones (TX)	-	-	-	-	-	-	-	-	9,665	196.1	2.04	-	-	100
Nichols (TX)	-	-	-	-	-	-	-	-	6,013	198.6	1.95	-	-	100
Plant X (TX)	-	-	-	-	2	447.4	26.12	.49	6,269	203.2	2.06	-	*	100
Harrington (TX)	4,157	155.6	27.36	.38	-	-	-	-	122	222.1	2.19	100	-	*
Tolk (TX)	4,109	188.0	32.74	.37	-	-	-	-	77	225.9	2.29	100	-	*
Springfield City of	**861**	**133.6**	**31.19**	**2.27**	**-**	**-**	**-**	**-**	**1,675**	**144.1**	**1.47**	**92**	**-**	**8**
James River (MO)	419	131.5	30.65	2.03	-	-	-	-	1,609	143.8	1.47	86	-	14
Southwest (MO)	442	135.6	31.70	2.50	-	-	-	-	66	151.0	1.52	99	-	1
Springfield City of	**922**	**133.7**	**27.81**	**2.94**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**100**	**-**	**-**
Dallman (IL)	858	133.7	27.80	2.94	-	-	-	-	-	-	-	100	-	-
Lakeside (IL)	64	134.6	27.95	2.96	-	-	-	-	-	-	-	100	-	-
St Joseph Light & Power Co	**172**	**133.0**	**30.92**	**3.25**	**34**	**179.6**	**11.66**	**2.61**	**366**	**187.9**	**1.89**	**87**	**5**	**8**
Lakeroad (MO)	172	133.0	30.92	3.25	34	179.6	11.66	2.61	366	187.9	1.89	87	5	8
Sunflower Electric Power Corp	**1,052**	**97.3**	**16.50**	**.33**	**-**	**-**	**-**	**-**	**104**	**183.7**	**1.60**	**99**	**-**	**1**
Holcomb (KS)	1,052	97.3	16.50	.33	-	-	-	-	104	183.7	1.60	99	-	1
Tallahassee City of	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**13,166**	**228.8**	**2.39**	**-**	**-**	**100**
Hopkins (FL)	-	-	-	-	-	-	-	-	11,134	229.0	2.39	-	-	100
Purdom (FL)	-	-	-	-	-	-	-	-	2,032	227.3	2.37	-	-	100
Tampa Electric Co	**6,650**	**181.2**	**44.44**	**2.21**	**364**	**458.1**	**27.98**	**.70**	**-**	**-**	**-**	**99**	**1**	**-**
Big Bend (FL)	6,093	176.2	43.05	2.31	118	530.9	30.84	.39	-	-	-	100	*	-
Gannon (FL)	557	232.9	59.64	1.13	40	510.7	29.35	.36	-	-	-	98	2	-
Hookers Point (FL)	-	-	-	-	206	410.6	26.07	.95	-	-	-	-	100	-
Taunton City of	**-**	**-**	**-**	**-**	**154**	**324.2**	**20.45**	**1.27**	**1,251**	**272.9**	**2.81**	**-**	**43**	**57**
Cleary (MA)	-	-	-	-	154	324.2	20.45	1.27	1,251	272.9	2.81	-	43	57

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Tennessee Valley Authority	**36,876**	**127.4**	**29.95**	**2.40**	**189**	**564.5**	**32.78**	**0.50**	**-**	**-**	**-**	**100**	*****	**-**
Colbert (AL)	2,014	122.3	28.70	1.63	15	644.0	37.49	.50	-	-	-	100	*	-
Widows Creek (AL)	3,425	129.4	31.31	2.32	25	550.3	31.51	.50	-	-	-	100	*	-
Paradise (KY)	7,181	104.2	22.71	4.31	13	548.0	31.87	.50	-	-	-	100	*	-
Shawnee (KY)	2,810	129.7	31.03	1.24	22	555.8	32.02	.50	-	-	-	100	*	-
Allen (TN)	1,541	118.3	27.99	2.03	3	620.0	36.26	.50	-	-	-	100	*	-
Bull Run (TN)	2,467	199.1	46.52	.98	25	638.3	36.89	.50	-	-	-	100	*	-
Cumberland (TN)	6,345	130.0	29.96	2.72	56	530.7	31.02	.50	-	-	-	100	*	-
Gallatin (TN)	2,605	121.3	29.48	2.75	8	508.2	30.01	.50	-	-	-	100	*	-
Sevier (TN)	2,062	126.3	32.33	1.72	3	524.3	30.56	.50	-	-	-	100	*	-
Johnsonville (TN)	2,575	129.5	30.25	1.68	9	645.2	37.72	.50	-	-	-	100	*	-
Kingston (TN)	3,851	123.6	31.05	1.31	10	495.2	28.69	.44	-	-	-	100	*	-
Texas Municipal Power Agency	**3,623**	**150.5**	**14.26**	**1.40**	**2**	**350.9**	**20.56**	**.20**	**-**	**-**	**-**	**100**	*****	**-**
Gibbons Creek (TX)	3,623	150.5	14.26	1.40	2	350.9	20.56	.20	-	-	-	100	*	-
Texas New Mexico Power Co	**565**	**134.8**	**18.39**	**1.02**	**-**	**-**	**-**	**-**	**466**	**177.9**	**1.85**	**94**	**-**	**6**
TNP One (Tx)	565	134.8	18.39	1.02	-	-	-	-	466	177.9	1.85	94	-	6
Texas Utilities Electric Co	**31,244**	**94.7**	**12.27**	**.81**	**801**	**550.9**	**32.83**	**.50**	**339,800**	**248.1**	**2.57**	**53**	**1**	**46**
Dallas (TX)	-	-	-	-	20	494.5	30.74	.50	911	257.0	2.66	-	12	88
Lake Hubbard (TX)	-	-	-	-	44	619.4	36.61	.50	27,999	246.8	2.58	-	1	99
Mountain Creek (TX)	-	-	-	-	52	490.8	30.51	.50	23,928	249.2	2.57	-	1	99
North Lake (TX)	-	-	-	-	98	626.0	36.28	.50	16,948	244.6	2.50	-	3	97
Parkdale (TX)	-	-	-	-	5	539.3	33.52	.50	4,759	239.6	2.43	-	1	99
Eagle Mountain (TX)	-	-	-	-	30	418.9	26.04	.50	7,217	241.1	2.48	-	2	98
Graham (TX)	-	-	-	-	31	472.6	29.38	.50	17,703	246.2	2.65	-	1	99
Handley (TX)	-	-	-	-	78	628.9	36.45	.50	24,692	251.4	2.60	-	2	98
Morgan Creek (TX)	-	-	-	-	25	551.9	34.31	.50	30,660	252.4	2.59	-	*	100
North Main (TX)	-	-	-	-	6	265.6	16.51	.50	599	243.7	2.53	-	6	94
Permian Basin (TX)	-	-	-	-	77	498.9	31.01	.50	26,839	249.5	2.56	-	2	98
Big Brown (TX)	5,329	93.4	12.72	.72	-	-	-	-	1,216	250.1	2.64	98	-	2
Collin (TX)	-	-	-	-	34	470.2	29.23	.50	2,855	245.5	2.57	-	7	93
Lake Creek (TX)	-	-	-	-	52	630.0	36.51	.50	5,217	247.0	2.67	-	5	95
River Crest (TX)	-	-	-	-	-	-	-	-	1,000	237.4	2.64	-	-	100
Stryker (TX)	-	-	-	-	9	570.8	35.48	.50	18,350	244.8	2.55	-	*	100
Tradinghouse (TX)	-	-	-	-	-	-	-	-	54,924	246.0	2.52	-	-	100
Trinidad (TX)	-	-	-	-	13	265.6	16.51	.50	4,477	241.7	2.57	-	2	98
Valley (TX)	-	-	-	-	30	625.9	36.28	.50	29,601	248.9	2.64	-	1	99
Martin Lake (TX)	13,150	98.2	13.27	1.12	57	471.9	27.35	.50	-	-	-	100	*	-
Monticello (TX)	12,112	92.0	11.10	.50	88	546.7	31.69	.50	-	-	-	100	*	-
Sandow No 4 (TX)	653	80.1	10.26	1.12	-	-	-	-	-	-	-	100	-	-
Decordova (TX)	-	-	-	-	53	668.8	38.77	.50	39,905	251.5	2.60	-	1	99
Toledo Edison Co	**1,309**	**195.3**	**51.20**	**1.19**	**4**	**442.4**	**25.59**	**.39**	**15**	**336.7**	**3.45**	**100**	*****	*****
Acme (OH)	126	167.6	43.76	.73	-	-	-	-	15	336.7	3.45	100	-	*
Bay Shore (OH)	1,183	198.3	52.00	1.24	4	442.4	25.59	.39	-	-	-	100	*	-
Tucson Electric Power Co	**167**	**283.0**	**57.69**	**.49**	**-**	**-**	**-**	**-**	**821**	**258.3**	**2.67**	**80**	**-**	**20**
Irvington (AZ)	167	283.0	57.69	.49	-	-	-	-	821	258.3	2.67	80	-	20
Union Electric Co	**10,222**	**151.2**	**32.78**	**1.91**	**83**	**555.2**	**31.95**	**.29**	**613**	**198.9**	**2.02**	**100**	*****	*****
Venice No.2 (IL)	-	-	-	-	-	-	-	-	501	168.3	1.71	-	-	100
Labadie (MO)	5,118	140.4	31.42	2.50	68	556.8	32.04	.29	-	-	-	100	*	-
Meramec (MO)	633	201.4	47.39	1.28	-	-	-	-	112	336.5	3.40	99	-	1
Sioux (MO)	2,102	164.8	35.12	1.84	7	545.9	31.41	.29	-	-	-	100	*	-
Rush Island (MO)	2,369	148.8	29.74	.87	8	549.7	31.63	.29	-	-	-	100	*	-
United Illuminating Co	**954**	**212.9**	**56.35**	**.54**	**5,292**	**295.8**	**18.82**	**.97**	**2,920**	**294.4**	**3.04**	**41**	**54**	**5**
Bridgeport Harbor (CT)	954	212.9	56.35	.54	1,618	298.3	18.97	.98	-	-	-	71	29	-
English (CT)	-	-	-	-	51	283.1	17.97	.99	-	-	-	-	100	-
New Haven Hbr (CT)	-	-	-	-	3,623	294.8	18.76	.97	2,920	294.4	3.04	-	88	12
United Power Assn	**1,085**	**100.7**	**13.86**	**.94**	**3**	**531.5**	**30.58**	**.40**	**-**	**-**	**-**	**100**	*****	**-**
Stanton (ND)	1,085	100.7	13.86	.94	3	531.5	30.58	.40	-	-	-	100	*	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 43. Quantity, Average Delivered Cost, and Quality of Fossil-Fuel Receipts by Company and Plant, 1990 (Continued)

Company Plant (State)	Coal				Petroleum[1]				Gas			% of Total Btu		
	Quantity (1,000 Short Tons)	(Cents per 10^6 Btu)	($ per Short Ton)	(% Avg. Sulfur)	Quantity (1,000 bbls)	(Cents per 10^6 Btu)	($ per bbl)	(% Avg. Sulfur)	Quantity (1,000 Mcf)	(Cents per 10^6 Btu)	($ per Mcf)	Coal	Petroleum	Gas
Vero Beach City of	-	-	-	-	-	-	-	-	2,851	271.5	2.78	-	-	100
Vero Beach (FL)	-	-	-	-	-	-	-	-	2,851	271.5	2.78	-	-	100
Vineland City of	10	215.1	55.46	0.70	124	322.6	20.25	0.81	-	-	-	24	76	-
H M Down (NJ)	10	215.1	55.46	.70	124	322.6	20.25	.81	-	-	-	24	76	-
Virginia Electric & Power Co	9,645	149.3	37.54	1.38	2,778	383.1	23.55	.89	1,094	258.2	2.69	93	7	*
Bremo Bluff (VA)	285	150.0	37.90	.90	15	646.3	38.00	.20	-	-	-	99	1	-
Chesterfield (VA)	2,805	152.4	38.76	1.04	136	568.6	33.43	.20	-	-	-	99	1	-
Chesapeake Energy (VA)	1,198	150.2	38.86	1.12	46	603.7	35.50	.20	8	278.7	2.90	99	1	*
Possum Point (VA)	581	154.8	39.03	.97	388	357.9	22.13	.63	-	-	-	86	14	-
Yorktown (VA)	529	152.3	39.65	1.32	10	514.4	30.25	.20	1,087	258.1	2.69	92	*	8
Mount Storm (WV)	4,247	145.7	35.87	1.77	39	535.5	31.49	.20	-	-	-	100	*	-
Storage Facility #1	-	-	-	-	2,145	366.9	22.65	1.02	-	-	-	-	100	-
West Penn Power Co	5,247	139.8	35.58	2.18	29	547.0	32.39	.27	37	337.4	3.37	100	*	*
Armstrong (PA)	905	125.7	31.03	1.81	5	554.2	32.82	.27	-	-	-	100	*	-
Hatfield (PA)	3,719	145.3	37.42	2.19	16	537.6	31.84	.27	-	-	-	100	*	-
Mitchell (PA)	623	126.5	31.19	2.64	4	570.2	33.77	.27	37	337.4	3.37	100	*	*
Springdale (PA)	-	-	-	-	4	553.0	32.75	.27	-	-	-	-	100	-
West Texas Utilities Co	2,595	168.7	28.12	.34	14	619.9	36.06	.44	36,595	198.7	2.05	53	*	47
Oklaunion (TX)	2,595	168.7	28.12	.34	7	619.8	36.05	.55	-	-	-	100	*	-
Oak Creek (TX)	-	-	-	-	-	-	-	-	3,317	242.3	2.67	-	-	100
Paint Creek (TX)	-	-	-	-	3	643.0	37.60	.40	4,254	216.7	2.28	-	*	100
Rio Pecos (TX)	-	-	-	-	-	-	-	-	8,448	158.5	1.58	-	-	100
San Angelo (TX)	-	-	-	-	3	592.0	34.05	.17	3,758	348.5	3.86	-	*	100
Fort Phantom (TX)	-	-	-	-	1	613.0	36.50	.57	16,819	168.0	1.71	-	*	100
Western Farmers Elec Coop Inc	1,146	198.4	34.17	.45	-	-	-	-	4,204	174.6	1.83	82	-	18
Mooreland (OK)	-	-	-	-	-	-	-	-	4,204	174.6	1.83	-	-	100
Hugo (OK)	1,146	198.4	34.17	.45	-	-	-	-	-	-	-	100	-	-
Western Massachusetts Elec Co	-	-	-	-	337	366.5	23.05	.92	2,199	251.6	2.59	-	48	52
West Springfield (MA)	-	-	-	-	337	366.5	23.05	.92	2,199	251.6	2.59	-	48	52
Wisconsin Electric Power Co	8,268	129.9	26.10	.77	45	558.4	32.59	.33	665	281.3	2.85	99	*	*
Presque Isle (MI)	1,412	168.3	35.14	.65	-	-	-	-	-	-	-	100	-	-
Oak Creek (WI)	1,759	152.0	38.99	1.68	-	-	-	-	368	304.0	3.06	99	-	1
Port Washington (WI)	139	165.1	43.23	1.67	-	-	-	-	-	-	-	100	-	-
Valley (WI)	397	168.1	44.51	1.66	-	-	-	-	67	252.5	2.54	99	-	1
Pleasant Prairie (WI)	4,560	95.5	16.21	.36	-	-	-	-	231	253.7	2.59	100	-	*
Storage Facility #1	-	-	-	-	45	558.4	32.59	.33	-	-	-	-	100	-
Wisconsin Power & Light Co	6,549	138.9	25.62	.73	-	-	-	-	74	243.3	2.44	100	-	*
Blackhawk (WI)	-	-	-	-	-	-	-	-	74	243.3	2.44	-	-	100
Edgewater (WI)	2,188	146.8	28.63	1.05	-	-	-	-	-	-	-	100	-	-
Nelson Dewey (WI)	519	130.6	26.28	.48	-	-	-	-	-	-	-	100	-	-
Rock River (WI)	251	188.4	41.90	1.86	-	-	-	-	-	-	-	100	-	-
Columbia (WI)	3,591	130.4	22.55	.50	-	-	-	-	-	-	-	100	-	-
Wisconsin Public Service Corp	2,143	169.2	33.70	.96	4	475.1	27.54	.22	333	297.0	2.98	99	*	1
Pulliam (WI)	659	195.7	44.38	2.00	-	-	-	-	315	296.9	2.98	98	-	2
Weston (WI)	1,484	154.9	28.95	.50	4	475.1	27.54	.22	18	298.1	2.99	100	*	*
Wyandotte Municipal Serv Comm	139	190.0	50.08	.73	-	-	-	-	2	275.0	4.27	100	*	*
Wyandotte (MI)	139	190.0	50.08	.73	-	-	-	-	2	275.0	4.27	100	*	*
Total	786,627	145.5	30.45	1.35	209,350	[2] 338.4	21.28	.96	2,490,979	[2] 232.1	2.38	81	6	13

[1] The 1990 petroleum coke receipts were 554,000 short tons and the cost was 80.3 cents per million Btu.

[2] Includes at least one delivery at a price of 1,000 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 is rounded to zero.

Holding Companies are: **AEP** is American Electric Power, **APS** is Allegheny Power System, **ACE** is Atlantic City Electric, **CSW** is Central & South West Corporation, **CES** is Commonwealth Energy System, **DMV** is Delmarva, **EU** is Eastern Utilities Associates Company, **GPS** is General Public Utilities, **MSU** is Middle South Utilities, **NEES** is New England Electric System, **NU** is Northeast Utilities, **SC** is Southern Company, **TU** is Texas Utilities.

Notes: • • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Alabama Electric Coop Inc																		
1986	1,204	-	11,968	12.0	1.3	-	40.66	40.66	-	-	-	-	-	-	-	6	130,000	20.61
1987	1,151	-	11,990	12.0	1.4	-	37.65	37.65	-	-	-	-	-	-	-	5	130,000	22.72
1988	1,192	57.9	12,020	12.4	1.4	40.93	34.78	38.34	-	-	-	-	-	-	-	3	130,000	19.98
1989	1,150	52.4	11,827	12.5	1.4	42.02	34.97	38.67	-	-	-	-	-	-	-	7	130,153	24.32
1990	1,228	52.5	11,824	13.7	1.5	42.04	34.52	38.47	-	-	-	-	-	-	-	4	130,500	30.67
Alabama Power Co																		
1986	14,758	90.8	12,324	11.7	1.3	52.29	35.60	50.75	-	-	-	-	-	-	-	175	138,792	20.09
1987	13,796	95.6	12,375	11.7	1.2	52.58	31.37	51.63	-	-	-	-	-	-	-	155	138,615	23.38
1988	13,626	94.1	12,270	11.8	1.3	52.43	30.59	51.14	-	-	-	-	-	-	-	103	136,231	20.90
1989	14,293	92.4	12,173	12.3	1.3	50.45	35.10	49.28	-	-	-	-	-	-	-	81	137,886	23.93
1990	15,542	92.0	12,161	12.2	1.3	51.89	28.95	50.05	-	-	-	-	-	-	-	81	137,562	31.35
Alexandria City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	135,000	37.42
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ames City of																		
1986	143	100.0	8,282	6.4	.6	31.31	-	31.31	-	-	-	-	-	-	-	3	141,600	21.08
1987	140	96.8	8,511	5.1	.3	24.20	20.45	24.08	-	-	-	-	-	-	-	7	141,600	23.71
1988	199	100.0	8,802	4.8	.2	21.45	-	21.45	-	-	-	-	-	-	-	3	141,600	20.34
1989	168	100.0	8,794	4.5	.2	21.83	-	21.83	-	-	-	-	-	-	-	3	141,600	24.91
1990	193	100.0	8,801	4.5	.2	22.26	-	22.26	-	-	-	-	-	-	-	4	141,600	30.41
Appalachian Power Co																		
1986	11,742	82.4	12,451	11.0	.7	43.52	30.13	41.17	-	-	-	-	-	-	-	130	138,571	20.24
1987	12,015	84.7	12,515	10.7	.7	42.85	27.87	40.55	-	-	-	-	-	-	-	187	138,523	25.36
1988	8,958	90.5	12,501	11.2	.7	41.54	28.61	40.32	-	-	-	-	-	-	-	102	138,816	23.86
1989	10,832	71.3	12,407	11.2	.8	42.40	27.01	37.97	-	-	-	-	-	-	-	211	138,464	26.06
1990	11,760	66.2	12,434	11.3	.8	44.99	29.44	39.74	-	-	-	-	-	-	-	146	138,650	34.66
Arizona Electric Pwr Coop Inc																		
1986	505	84.6	10,205	15.1	.6	53.25	38.78	51.02	-	-	-	-	-	-	-	-	-	-
1987	223	100.0	11,205	14.3	.5	49.35	-	49.35	-	-	-	-	-	-	-	-	-	-
1988	609	100.0	11,984	16.1	.4	40.77	-	40.77	-	-	-	-	-	-	-	-	-	-
1989	833	100.0	11,885	15.9	.4	40.66	-	40.66	-	-	-	-	-	-	-	-	-	-
1990	1,074	97.1	11,741	16.3	.4	40.69	32.70	40.46	-	-	-	-	-	-	-	-	-	-
Arizona Public Service Co																		
1986	10,119	100.0	9,088	20.0	.7	20.50	-	20.50	-	-	-	-	-	-	-	67	140,340	19.64
1987	11,176	100.0	9,081	20.1	.7	19.95	-	19.95	-	-	-	-	-	-	-	62	138,266	23.14
1988	11,586	100.0	9,029	19.8	.7	20.17	-	20.17	-	-	-	-	-	-	-	15	137,647	24.56
1989	11,927	100.0	9,109	19.5	.7	21.82	-	21.82	5	-	148,641	0.7	-	21.48	21.48	73	137,757	25.38
1990	11,767	100.0	9,047	20.0	.7	22.02	-	22.02	12	-	149,054	.8	-	17.72	17.72	39	139,104	31.84
Arkansas Power & Light Co																		
1986	10,189	100.0	8,718	5.5	.3	27.43	-	27.43	16	100.0	150,005	1.2	10.39	-	10.39	111	136,776	25.75
1987	10,045	98.1	8,727	5.6	.3	27.49	22.67	27.40	-	-	-	-	-	-	-	134	136,739	22.14
1988	10,184	97.8	8,702	5.7	.3	28.05	15.83	27.79	136	100.0	149,980	.5	24.00	-	24.00	80	136,894	30.02
1989	9,854	100.0	8,771	5.4	.3	28.71	-	28.71	135	100.0	149,552	.5	20.48	-	20.48	100	136,854	25.05
1990	9,215	100.0	8,807	5.4	.3	28.66	-	28.66	15	100.0	149,666	.1	17.26	-	17.26	116	137,370	28.91
Associated Electric Coop Inc																		
1986	4,613	94.0	10,697	10.3	3.8	31.89	27.93	31.65	-	-	-	-	-	-	-	-	-	-
1987	5,111	100.0	10,664	10.4	4.0	29.96	-	29.96	-	-	-	-	-	-	-	-	-	-
1988	5,026	100.0	10,671	10.0	3.9	28.72	-	28.72	-	-	-	-	-	-	-	-	-	-
1989	5,061	99.3	10,667	10.1	3.6	29.07	20.88	29.02	-	-	-	-	-	-	-	-	-	-
1990	5,736	100.0	10,678	10.1	3.4	28.20	-	28.20	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Alabama Electric Coop Inc																
1986	-	-	-	-	-	-	28,829	34	-	100	*	-	49,106	48,976	130	-
1987	-	-	-	-	-	-	27,601	27	-	100	*	-	43,449	43,335	114	-
1988	-	-	-	-	-	-	28,660	19	-	100	*	-	45,781	45,712	69	-
1989	-	-	-	-	-	-	27,201	36	-	100	*	-	44,626	44,464	162	-
1990	-	-	-	-	-	-	29,040	23	-	100	*	-	47,372	47,242	130	-
Alabama Power Co																
1986	687	1,091	2.90	2.56	2.69	61.2	363,773	1,017	749	100	*	*	754,294	748,939	3,506	1,850
1987	858	1,054	2.22	2.18	2.22	23.5	341,442	900	904	99	*	*	717,869	712,353	3,615	1,901
1988	1,080	1,039	2.15	-	2.15	-	334,395	591	1,122	99	*	*	701,324	696,843	2,158	2,322
1989	1,556	1,030	2.27	-	2.27	-	347,978	471	1,602	99	*	*	709,871	704,394	1,945	3,532
1990	2,581	1,030	2.22	-	2.22	-	378,005	469	2,659	99	*	1	786,111	777,833	2,545	5,733
Alexandria City of																
1986	1,627	1,027	2.13	-	2.13	-	-	-	1,671	-	-	100	3,474	-	-	3,474
1987	1,164	1,027	1.95	-	1.95	-	-	-	1,196	-	-	100	2,266	-	-	2,266
1988	1,261	1,026	1.94	2.08	2.01	49.4	-	-	1,294	-	-	100	2,532	-	-	2,532
1989	193	1,029	-	2.78	2.78	100.0	-	16	199	-	8	92	643	-	107	536
1990	93	1,044	-	2.13	2.13	100.0	-	-	97	-	-	100	198	-	-	198
Ames City of																
1986	-	-	-	-	-	-	2,364	17	-	99	1	-	4,530	4,468	62	-
1987	-	-	-	-	-	-	2,388	40	-	98	2	-	3,536	3,378	158	-
1988	-	-	-	-	-	-	3,512	17	-	100	*	-	4,337	4,279	59	-
1989	-	-	-	-	-	-	2,955	17	-	99	1	-	3,740	3,667	73	-
1990	-	-	-	-	-	-	3,399	22	-	99	1	-	4,412	4,299	113	-
Appalachian Power Co																
1986	-	-	-	-	-	-	292,417	760	-	100	*	-	486,048	483,407	2,641	-
1987	-	-	-	-	-	-	300,727	1,087	-	100	*	-	491,957	487,219	4,738	-
1988	-	-	-	-	-	-	223,952	594	-	100	*	-	363,576	361,147	2,429	-
1989	-	-	-	-	-	-	268,778	1,230	-	100	*	-	416,842	411,330	5,513	-
1990	-	-	-	-	-	-	292,444	848	-	100	*	-	472,403	467,356	5,047	-
Arizona Electric Pwr Coop Inc																
1986	1,518	1,030	1.98	-	1.98	-	10,300	-	1,564	87	-	13	28,749	25,746	-	3,002
1987	4,259	1,032	1.89	-	1.89	-	4,993	-	4,394	53	-	47	19,041	10,995	-	8,046
1988	2,370	1,029	2.14	-	2.14	-	14,601	-	2,438	86	-	14	29,900	24,836	-	5,064
1989	1,759	1,034	2.16	-	2.16	-	19,791	-	1,818	92	-	8	37,653	33,851	-	3,801
1990	1,899	1,031	2.28	-	2.28	-	25,223	-	1,958	93	-	7	47,783	43,458	-	4,324
Arizona Public Service Co																
1986	6,731	1,041	-	2.52	2.52	100.0	183,913	395	7,010	96	*	4	225,748	207,452	1,316	16,980
1987	2,705	1,028	-	2.35	2.35	100.0	202,978	362	2,780	98	*	1	230,777	222,970	1,444	6,362
1988	2,383	1,025	2.46	2.87	2.60	34.6	209,219	84	2,443	99	*	1	240,258	233,703	356	6,198
1989	11,519	1,031	2.35	2.30	2.33	50.1	217,287	454	11,878	95	*	5	289,082	260,298	1,960	26,823
1990	4,674	1,030	2.63	2.59	2.61	57.6	212,924	303	4,812	98	*	2	272,759	259,128	1,454	12,177
Arkansas Power & Light Co																
1986	28,445	1,053	1.67	1.48	1.64	16.3	177,658	739	29,951	85	*	14	329,240	279,517	3,034	46,689
1987	32,066	1,031	1.64	1.06	1.57	12.1	175,332	772	33,065	84	*	16	328,513	275,212	2,975	50,325
1988	21,976	1,029	1.48	.91	1.39	16.4	177,241	1,313	22,611	88	1	11	319,152	282,967	5,651	30,535
1989	29,473	1,019	1.77	1.05	1.69	11.3	172,844	1,423	30,036	85	1	15	337,895	282,935	5,275	49,685
1990	31,951	1,018	1.63	.99	1.57	9.2	162,297	763	32,516	83	*	17	317,797	264,093	3,613	50,090
Associated Electric Coop Inc																
1986	-	-	-	-	-	-	98,698	-	-	100	-	-	146,010	146,010	-	-
1987	-	-	-	-	-	-	108,999	-	-	100	-	-	153,096	153,096	-	-
1988	-	-	-	-	-	-	107,277	-	-	100	-	-	144,371	144,371	-	-
1989	-	-	-	-	-	-	107,981	-	-	100	-	-	146,859	146,859	-	-
1990	-	-	-	-	-	-	122,499	-	-	100	-	-	161,743	161,743	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Atlantic City Electric Co																		
1986	588	88.6	12,982	9.9	2.6	45.17	46.92	45.37	899	100.0	150,949	0.9	15.38	-	15.38	-	-	-
1987	616	89.0	13,045	9.8	2.7	43.86	44.19	43.90	1,140	100.0	151,359	.9	18.78	-	18.78	-	-	-
1988	622	84.7	13,118	9.4	2.6	44.84	44.64	44.81	963	100.0	150,379	.8	15.03	-	15.03	-	-	-
1989	703	79.1	13,071	8.7	2.5	46.42	46.13	46.36	1,072	100.0	151,510	.9	18.89	-	18.89	-	-	-
1990	569	85.9	13,106	9.7	2.6	47.41	51.36	47.97	407	82.1	151,587	.9	21.91	28.99	23.18	-	-	-
Austin City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Baltimore Gas & Electric Co																		
1986	2,709	67.0	12,903	8.9	1.0	45.98	42.35	44.78	1,062	95.3	150,805	1.0	14.26	12.87	14.20	16	139,174	19.11
1987	2,629	69.0	12,897	9.2	1.1	41.84	41.41	41.71	2,095	77.3	149,624	1.0	18.69	19.88	18.96	1	138,976	23.61
1988	3,195	69.9	12,940	9.0	1.0	40.62	40.37	40.55	1,886	97.2	150,010	1.0	14.69	14.71	14.69	-	-	-
1989	3,122	65.5	12,895	8.1	.9	40.24	43.36	41.31	5,465	95.8	149,835	1.0	17.70	17.63	17.69	-	-	-
1990	3,532	78.7	12,926	8.7	1.0	39.91	43.32	40.64	3,902	98.6	149,527	1.0	20.07	21.04	20.09	-	-	-
Bangor Hydro-Electric Co																		
1986	-	-	-	-	-	-	-	-	116	100.0	150,392	2.3	16.87	-	16.87	-	-	-
1987	-	-	-	-	-	-	-	-	88	100.0	150,352	2.1	18.72	-	18.72	-	-	-
1988	-	-	-	-	-	-	-	-	95	100.0	150,404	1.1	17.83	-	17.83	-	-	-
1989	-	-	-	-	-	-	-	-	107	100.0	150,685	.6	21.87	-	21.87	-	-	-
1990	-	-	-	-	-	-	-	-	63	100.0	151,612	.6	24.98	-	24.98	-	-	-
Basin Electric Power Coop																		
1986	10,921	100.0	7,506	6.8	.5	11.69	-	11.69	-	-	-	-	-	-	-	62	137,883	22.32
1987	12,911	100.0	7,460	7.0	.5	10.97	-	10.97	-	-	-	-	-	-	-	54	137,883	24.07
1988	14,867	99.8	7,491	7.2	.5	10.61	12.05	10.61	-	-	-	-	-	-	-	49	137,883	21.69
1989	13,436	100.0	7,487	7.1	.5	9.89	-	9.89	-	-	-	-	-	-	-	90	137,883	24.90
1990	13,468	100.0	7,466	7.2	.5	9.74	-	9.74	-	-	-	-	-	-	-	70	137,883	32.49
Big Rivers Electric Corp																		
1986	4,443	98.9	11,010	12.1	3.0	27.06	22.02	27.01	-	-	-	-	-	-	-	29	138,000	18.10
1987	5,056	99.4	11,169	12.1	3.1	27.26	18.04	27.20	-	-	-	-	-	-	-	30	138,000	23.17
1988	5,019	99.1	11,191	12.1	3.2	27.50	19.70	27.43	-	-	-	-	-	-	-	20	138,000	21.27
1989	4,619	99.4	11,098	12.7	3.5	26.89	18.93	26.84	-	-	-	-	-	-	-	16	138,000	27.42
1990	5,110	94.9	11,177	12.6	3.5	27.73	24.25	27.55	-	-	-	-	-	-	-	16	138,000	40.22
Boston Edison Co																		
1986	-	-	-	-	-	-	-	-	12,657	61.2	149,582	1.1	15.35	12.78	14.35	-	-	-
1987	-	-	-	-	-	-	-	-	10,647	55.1	150,895	1.0	17.78	17.36	17.59	-	-	-
1988	-	-	-	-	-	-	-	-	11,342	33.8	150,271	.9	14.05	13.93	13.97	-	-	-
1989	-	-	-	-	-	-	-	-	9,763	24.5	150,664	.9	18.34	16.27	16.78	-	-	-
1990	-	-	-	-	-	-	-	-	7,224	29.0	149,982	.9	18.58	18.69	18.66	-	-	-
Brazos Electric Power Coop Inc																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bryan City of																		
1986	-	-	-	-	-	-	-	-	1	-	143,599	.1	-	25.99	25.99	-	-	-
1987	-	-	-	-	-	-	-	-	1	-	144,870	.1	-	15.95	15.95	-	-	-
1988	-	-	-	-	-	-	-	-	7	-	147,712	.2	-	15.96	15.96	-	-	-
1989	-	-	-	-	-	-	-	-	[2] 3	-	147,700	.5	-	22.64	22.64	9	140,100	28.25
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Atlantic City Electric Co																
1986	-	-	-	-	-	-	15,267	5,700	-	73	27	-	40,509	26,680	13,830	-
1987	-	-	-	-	-	-	16,071	7,247	-	69	31	-	48,457	27,043	21,414	-
1988	-	-	-	-	-	-	16,319	6,082	-	73	27	-	42,342	27,872	14,470	-
1989	-	-	-	-	-	-	18,378	6,822	-	73	27	-	52,833	32,588	20,245	-
1990	-	-	-	-	-	-	14,915	2,591	-	85	15	-	36,728	27,293	9,435	-
Austin City of																
1986	24,481	1,015	-	2.37	2.37	100.0	-	-	24,853	-	-	100	58,098	-	-	58,098
1987	16,994	1,018	-	2.16	2.16	100.0	-	-	17,300	-	-	100	36,747	-	-	36,747
1988	19,314	1,027	-	1.91	1.91	100.0	-	-	19,828	-	-	100	36,898	-	-	36,898
1989	15,750	996	-	2.12	2.12	100.0	-	-	15,693	-	-	100	33,411	-	-	33,411
1990	15,082	1,011	-	2.01	2.01	100.0	-	-	15,255	-	-	100	30,359	-	-	30,359
Baltimore Gas & Electric Co																
1986	-	-	-	-	-	-	69,907	6,820	-	91	9	-	136,706	121,321	15,385	-
1987	1,854	1,042	2.77	-	2.77	-	67,811	13,171	1,932	82	16	2	154,534	109,647	39,753	5,134
1988	2,306	1,043	3.05	2.38	2.90	22.6	82,687	11,883	2,405	85	12	2	163,937	129,543	27,699	6,695
1989	6,083	1,045	2.90	2.65	2.87	9.9	80,514	34,392	6,355	66	28	5	243,160	128,985	96,693	17,482
1990	6,639	1,039	2.70	-	2.70	-	91,306	24,505	6,898	74	20	6	239,827	143,531	78,377	17,920
Bangor Hydro-Electric Co																
1986	-	-	-	-	-	-	-	732	-	-	100	-	1,956	-	1,956	-
1987	-	-	-	-	-	-	-	554	-	-	100	-	1,643	-	1,643	-
1988	-	-	-	-	-	-	-	600	-	-	100	-	1,694	-	1,694	-
1989	-	-	-	-	-	-	-	677	-	-	100	-	2,339	-	2,339	-
1990	-	-	-	-	-	-	-	399	-	-	100	-	1,565	-	1,565	-
Basin Electric Power Coop																
1986	-	-	-	-	-	-	163,950	361	-	100	*	-	129,095	127,702	1,393	-
1987	-	-	-	-	-	-	192,636	313	-	100	*	-	142,914	141,614	1,300	-
1988	-	-	-	-	-	-	222,724	286	-	100	*	-	158,839	157,770	1,069	-
1989	-	-	-	-	-	-	201,183	520	-	100	*	-	135,173	132,937	2,236	-
1990	-	-	-	-	-	-	201,111	405	-	100	*	-	133,487	131,217	2,271	-
Big Rivers Electric Corp																
1986	50	1,000	-	3.80	3.80	100.0	97,844	166	50	100	*	*	120,699	119,991	518	189
1987	45	1,000	-	3.38	3.38	100.0	112,939	172	45	100	*	*	138,370	137,528	688	154
1988	27	1,000	-	3.14	3.14	100.0	112,349	117	27	100	*	*	138,180	137,664	430	86
1989	46	1,000	-	3.14	3.14	100.0	102,524	96	46	100	*	*	124,570	123,974	453	144
1990	43	1,000	2.90	3.15	3.08	69.4	114,233	93	43	100	*	*	141,585	140,803	648	133
Boston Edison Co																
1986	8,583	1,032	2.31	6.44	2.35	1.0	-	79,518	8,856	-	90	10	201,825	-	181,671	20,154
1987	23,358	1,031	2.37	5.72	2.38	.5	-	67,479	24,078	-	74	26	243,031	-	187,325	55,706
1988	9,013	1,034	5.99	2.29	2.29	100.0	-	71,586	9,323	-	88	12	179,080	-	158,442	20,637
1989	36,873	1,053	2.46	2.47	2.47	20.3	-	61,781	38,830	-	61	39	254,735	-	163,841	90,894
1990	42,775	1,056	2.49	5.20	2.49	.2	-	45,504	45,175	-	50	50	241,521	-	134,806	106,715
Brazos Electric Power Coop Inc																
1986	14,572	1,015	1.53	2.91	2.69	84.1	-	-	14,788	-	-	100	39,247	-	-	39,247
1987	14,840	1,019	1.61	3.00	2.33	51.9	-	-	15,117	-	-	100	34,600	-	-	34,600
1988	12,844	1,014	1.76	2.01	1.91	57.8	-	-	13,020	-	-	100	24,472	-	-	24,472
1989	13,936	1,019	1.81	1.92	1.86	46.8	-	-	14,206	-	-	100	25,979	-	-	25,979
1990	15,442	1,017	1.67	1.95	1.77	35.9	-	-	15,705	-	-	100	27,334	-	-	27,334
Bryan City of																
1986	4,116	1,046	1.70	-	1.70	-	-	7	4,306	-	*	100	7,023	-	28	6,995
1987	4,382	1,041	1.65	-	1.65	-	-	7	4,560	-	*	100	7,242	-	18	7,224
1988	4,729	1,062	1.82	-	1.82	-	-	44	5,023	-	1	99	8,706	-	113	8,593
1989	4,246	1,030	1.74	2.06	1.77	9.0	-	69	4,374	-	2	98	7,828	-	312	7,516
1990	5,176	1,048	-	1.80	1.80	100.0	-	-	5,423	-	-	100	9,293	-	-	9,293

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Burbank City of																		
1986	-	-	-	-	-	-	-	-	27	-	148,157	0.3	-	17.75	17.75	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	17	-	146,745	*	-	19.81	19.81	-	-	-
1989	-	-	-	-	-	-	-	-	22	-	150,025	.2	-	22.68	22.68	-	-	-
1990	-	-	-	-	-	-	-	-	8	-	154,307	.2	-	23.29	23.29	-	-	-
Cajun Electric Power Coop Inc																		
1986	4,124	100.0	8,407	6.0	0.5	32.27	-	32.27	-	-	-	-	-	-	-	41	140,000	18.31
1987	3,796	100.0	8,621	5.7	.5	28.70	-	28.70	-	-	-	-	-	-	-	46	140,000	22.06
1988	5,129	81.4	8,559	5.8	.5	25.27	20.69	24.42	-	-	-	-	-	-	-	72	140,000	19.20
1989	4,860	100.0	8,583	5.3	.4	27.33	-	27.33	-	-	-	-	-	-	-	63	140,000	23.57
1990	4,682	100.0	8,604	5.4	.4	29.30	-	29.30	-	-	-	-	-	-	-	82	140,000	30.12
Cambridge Electric Light Co																		
1986	-	-	-	-	-	-	-	-	428	100.0	149,075	.5	18.20	-	18.20	-	-	-
1987	-	-	-	-	-	-	-	-	123	100.0	150,251	.5	20.53	-	20.53	-	-	-
1988	-	-	-	-	-	-	-	-	311	100.0	149,526	.5	17.96	-	17.96	-	-	-
1989	-	-	-	-	-	-	-	-	265	100.0	149,029	.5	19.98	-	19.98	-	-	-
1990	-	-	-	-	-	-	-	-	197	100.0	150,089	.4	23.77	-	23.77	-	-	-
Canal Electric Co																		
1986	-	-	-	-	-	-	-	-	9,552	92.3	152,037	2.0	13.85	17.84	14.16	-	-	-
1987	-	-	-	-	-	-	-	-	8,724	100.0	151,387	2.1	17.48	-	17.48	-	-	-
1988	-	-	-	-	-	-	-	-	9,458	99.1	149,925	2.1	12.86	14.19	12.87	-	-	-
1989	-	-	-	-	-	-	-	-	10,262	85.4	150,010	2.1	15.32	15.26	15.31	-	-	-
1990	-	-	-	-	-	-	-	-	8,841	100.0	150,035	2.1	16.68	-	16.68	-	-	-
Cardinal Operating Co																		
1986	3,906	98.1	11,689	13.4	2.2	38.64	28.99	38.45	-	-	-	-	-	-	-	74	139,023	18.40
1987	3,854	93.4	11,782	13.6	2.2	38.35	28.16	37.68	-	-	-	-	-	-	-	49	139,706	23.36
1988	3,595	95.5	11,810	13.2	2.3	37.02	26.71	36.56	-	-	-	-	-	-	-	36	139,624	20.08
1989	4,445	94.3	11,730	13.6	2.2	34.27	25.78	33.78	-	-	-	-	-	-	-	35	138,950	24.22
1990	3,989	95.9	11,846	13.0	2.2	36.34	25.27	35.88	-	-	-	-	-	-	-	60	138,275	31.30
Carolina Power & Light Co																		
1986	9,915	88.2	12,563	9.6	.9	47.92	35.48	46.45	-	-	-	-	-	-	-	105	138,000	19.52
1987	9,709	89.6	12,585	9.5	.9	45.83	36.02	44.80	-	-	-	-	-	-	-	148	138,000	22.85
1988	8,768	99.0	12,599	10.0	.9	44.78	36.21	44.69	-	-	-	-	-	-	-	134	138,000	19.87
1989	9,330	87.0	12,558	9.9	.9	44.83	39.80	44.17	-	-	-	-	-	-	-	112	138,000	22.80
1990	9,868	92.1	12,553	10.1	.9	45.56	40.54	45.16	-	-	-	-	-	-	-	148	138,000	29.49
Cedar Falls City of																		
1986	16	-	10,912	8.8	1.7	-	31.28	31.28	-	-	-	-	-	-	-	-	-	-
1987	27	-	11,149	9.8	2.5	-	27.76	27.76	-	-	-	-	-	-	-	-	-	-
1988	35	-	12,011	10.7	3.4	-	28.72	28.72	-	-	-	-	-	-	-	-	-	-
1989	24	-	11,087	9.3	2.3	-	30.09	30.09	-	-	-	-	-	-	-	-	-	-
1990	22	-	11,214	11.2	3.0	-	31.19	31.19	-	-	-	-	-	-	-	-	-	-
Centel Corp																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Electric Pwr Coop-MO																		
1986	63	-	11,065	10.4	2.9	-	24.89	24.89	-	-	-	-	-	-	-	-	-	-
1987	91	-	11,159	9.7	2.9	-	25.65	25.65	-	-	-	-	-	-	-	-	-	-
1988	[1] 135	-	11,208	9.0	2.8	-	25.99	25.99	-	-	-	-	-	-	-	-	-	-
1989	[1] 137	-	11,338	9.8	3.4	-	26.19	26.19	-	-	-	-	-	-	-	-	-	-
1990	[1] 145	4.8	11,482	8.2	3.3	27.81	27.81	27.81	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Burbank City of																
1986	2,688	1,081	2.56	-	2.56	-	-	168	2,906	-	5	95	7,362	-	479	6,883
1987	3,323	1,057	2.57	-	2.57	-	-	-	3,512	-	-	100	8,548	-	-	8,548
1988	3,821	1,036	2.67	-	2.67	-	-	105	3,957	-	3	97	10,556	-	337	10,219
1989	3,079	1,032	2.89	-	2.89	-	-	139	3,178	-	4	96	9,406	-	499	8,907
1990	2,422	1,028	3.24	-	3.24	-	-	52	2,489	-	2	98	8,032	-	186	7,846
Cajun Electric Power Coop Inc																
1986	3,514	1,064	-	1.23	1.23	100.0	69,342	240	3,739	95	*	5	138,155	133,080	746	4,328
1987	1,843	1,047	1.66	-	1.66	-	65,459	272	1,929	97	*	3	113,035	108,953	1,022	3,061
1988	7,269	1,055	1.92	-	1.92	-	87,797	422	7,668	92	*	8	140,609	125,246	1,379	13,984
1989	3,900	1,040	2.11	2.02	2.03	82.1	83,423	371	4,055	95	*	5	142,226	132,813	1,486	7,926
1990	4,253	1,048	1.70	1.81	1.77	59.4	80,562	483	4,457	94	1	5	147,148	137,167	2,474	7,507
Cambridge Electric Light Co																
1986	612	1,000	2.49	-	2.49	-	-	2,680	612	-	81	19	9,312	-	7,790	1,522
1987	2,774	1,000	2.85	-	2.85	-	-	776	2,774	-	22	78	10,428	-	2,526	7,903
1988	1,469	1,000	2.36	-	2.36	-	-	1,953	1,469	-	57	43	9,049	-	5,585	3,463
1989	1,639	1,000	2.67	-	2.67	-	-	1,659	1,639	-	50	50	9,674	-	5,296	4,378
1990	1,021	1,000	3.23	-	3.23	-	-	1,242	1,021	-	55	45	7,980	-	4,684	3,297
Canal Electric Co																
1986	-	-	-	-	-	-	-	60,995	-	-	100	-	135,233	-	135,233	-
1987	-	-	-	-	-	-	-	55,469	-	-	100	-	152,482	-	152,482	-
1988	-	-	-	-	-	-	-	59,556	-	-	100	-	121,740	-	121,740	-
1989	-	-	-	-	-	-	-	64,655	-	-	100	-	157,141	-	157,141	-
1990	-	-	-	-	-	-	-	55,711	-	-	100	-	147,434	-	147,434	-
Cardinal Operating Co																
1986	-	-	-	-	-	-	91,312	434	-	100	*	-	151,561	150,194	1,367	-
1987	-	-	-	-	-	-	90,811	285	-	100	*	-	146,343	145,208	1,135	-
1988	-	-	-	-	-	-	84,913	211	-	100	*	-	132,170	131,450	721	-
1989	-	-	-	-	-	-	104,273	204	-	100	*	-	151,008	150,160	848	-
1990	-	-	-	-	-	-	94,495	347	-	100	*	-	144,989	143,120	1,869	-
Carolina Power & Light Co																
1986	-	-	-	-	-	-	249,136	606	-	100	*	-	462,646	460,604	2,042	-
1987	-	-	-	-	-	-	244,397	856	-	100	*	-	438,393	435,018	3,375	-
1988	-	-	-	-	-	-	220,950	776	-	100	*	-	394,561	391,902	2,659	-
1989	-	-	-	-	-	-	234,326	649	-	100	*	-	414,677	412,123	2,554	-
1990	-	-	-	-	-	-	247,736	856	-	100	*	-	449,986	445,630	4,356	-
Cedar Falls City of																
1986	4	998	-	4.00	4.00	100.0	338	-	4	99	-	1	503	485	-	18
1987	7	1,000	2.53	3.46	3.32	85.2	592	-	7	99	-	1	761	737	-	24
1988	6	1,000	2.09	3.47	3.12	74.9	845	-	6	99	-	1	1,029	1,010	-	19
1989	12	1,000	2.24	3.57	2.65	31.6	540	-	12	98	-	2	766	733	-	33
1990	21	1,000	2.17	3.78	2.42	16.1	488	-	21	96	-	4	728	678	-	50
Centel Corp																
1986	1,917	954	2.45	2.45	2.45	24.4	-	-	1,828	-	-	100	4,702	-	-	4,702
1987	2,256	978	1.91	2.59	2.08	25.4	-	-	2,207	-	-	100	4,703	-	-	4,703
1988	2,166	1,002	1.75	2.08	1.89	43.8	-	-	2,171	-	-	100	4,103	-	-	4,103
1989	1,609	980	1.59	2.32	1.79	27.9	-	-	1,576	-	-	100	2,883	-	-	2,883
1990	3,954	976	1.32	2.06	1.50	24.8	-	-	3,858	-	-	100	5,943	-	-	5,943
Central Electric Pwr Coop-MO																
1986	-	-	-	-	-	-	1,394	-	-	100	-	-	1,568	1,568	-	-
1987	-	-	-	-	-	-	2,031	-	-	100	-	-	2,334	2,334	-	-
1988	-	-	-	-	-	-	3,026	-	-	100	-	-	3,509	3,509	-	-
1989	-	-	-	-	-	-	3,107	-	-	100	-	-	3,588	3,588	-	-
1990	-	-	-	-	-	-	3,330	-	-	100	-	-	4,032	4,032	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Central Hudson Gas & Elec Corp																		
1986	1	100.0	13,299	6.7	0.6	52.13	-	52.13	11,455	97.2	150,406	1.3	15.72	17.08	15.76	44	139,500	21.97
1987	467	100.0	13,266	7.7	.6	49.85	-	49.85	8,387	91.8	151,065	1.3	18.95	18.66	18.93	51	139,500	23.84
1988	950	100.0	13,078	8.5	.6	49.99	-	49.99	[2] 9,842	91.2	151,175	1.3	14.62	15.22	14.68	32	139,500	22.63
1989	855	96.6	13,096	7.9	.6	51.18	47.98	51.07	10,998	88.1	151,054	1.3	17.05	18.18	17.19	52	139,500	25.85
1990	935	83.1	13,074	8.1	.6	54.21	51.79	53.80	10,413	89.3	151,584	1.3	19.41	24.26	19.93	23	139,500	33.75
Central Illinois Light Co																		
1986	2,153	100.0	12,028	6.8	2.0	46.23	-	46.23	-	-	-	-	-	-	-	21	137,888	21.89
1987	2,209	80.4	12,018	7.1	1.9	46.10	37.02	44.32	-	-	-	-	-	-	-	15	138,374	24.61
1988	2,112	89.2	11,935	7.3	2.0	44.52	35.69	43.57	-	-	-	-	-	-	-	15	137,469	27.94
1989	2,240	81.7	11,870	7.3	2.0	42.72	38.69	41.98	-	-	-	-	-	-	-	14	137,589	27.43
1990	2,130	74.7	11,979	7.0	2.0	43.44	41.46	42.94	-	-	-	-	-	-	-	16	138,315	32.75
Central Illinois Pub Serv Co																		
1986	4,923	93.5	11,086	8.9	2.8	38.55	26.01	37.74	67	100.0	157,149	.4	11.51	-	11.51	42	137,435	21.44
1987	4,793	94.2	11,145	9.4	2.8	37.91	33.18	37.64	-	-	-	-	-	-	-	55	136,772	24.46
1988	4,277	99.6	11,079	9.3	2.8	34.02	45.26	34.07	-	-	-	-	-	-	-	60	136,984	21.92
1989	4,393	97.3	11,078	9.2	2.7	35.32	40.24	35.45	34	100.0	148,123	.7	21.43	-	21.43	58	137,461	25.63
1990	4,716	93.0	11,129	9.2	2.6	35.62	36.51	35.68	39	100.0	150,537	.7	17.92	-	17.92	64	137,609	32.13
Central Iowa Power Coop																		
1987	167	45.0	11,588	10.6	2.8	29.72	23.09	26.08	-	-	-	-	-	-	-	-	-	-
1988	167	45.5	11,343	10.3	2.8	31.10	22.50	26.41	-	-	-	-	-	-	-	-	-	-
1989	152	49.9	10,889	10.4	3.0	24.95	22.15	23.55	-	-	-	-	-	-	-	-	-	-
1990	142	84.7	10,933	10.2	3.0	25.61	26.50	25.74	-	-	-	-	-	-	-	-	-	-
Central Louisiana Elec Co Inc																		
1986	3,666	100.0	7,506	10.2	.5	23.21	-	23.21	-	-	-	-	-	-	-	-	-	-
1987	4,650	100.0	7,590	9.6	.5	22.48	-	22.48	-	-	-	-	-	-	-	-	-	-
1988	4,901	100.0	7,614	9.5	.5	22.66	-	22.66	-	-	-	-	-	-	-	-	-	-
1989	4,783	94.8	7,565	9.8	.5	23.30	18.13	23.03	-	-	-	-	-	-	-	-	-	-
1990	4,852	100.0	7,540	10.2	.5	23.72	-	23.72	-	-	-	-	-	-	-	-	-	-
Central Maine Power Co																		
1986	-	-	-	-	-	-	-	-	4,460	80.4	149,877	.9	14.02	18.95	14.99	19	139,100	20.39
1987	-	-	-	-	-	-	-	-	3,958	100.0	150,715	.9	18.56	-	18.56	16	139,047	24.47
1988	-	-	-	-	-	-	-	-	5,013	100.0	149,132	.8	14.65	-	14.65	12	138,958	25.85
1989	-	-	-	-	-	-	-	-	4,820	100.0	149,625	.9	17.37	-	17.37	11	137,703	23.95
1990	-	-	-	-	-	-	-	-	3,718	100.0	149,992	.9	17.38	-	17.38	10	139,695	31.68
Central Nebraska Pub P&I Dist																		
1986	-	-	-	-	-	-	-	-	17	-	150,000	1.2	-	14.60	14.60	-	-	-
1987	-	-	-	-	-	-	-	-	22	-	150,000	1.3	-	14.41	14.41	-	-	-
1988	-	-	-	-	-	-	-	-	94	-	150,000	1.1	-	14.73	14.73	-	-	-
1989	-	-	-	-	-	-	-	-	60	-	150,000	1.1	-	13.56	13.56	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Operating Co																		
1986	1,831	66.3	12,352	11.4	1.0	45.69	29.06	40.09	-	-	-	-	-	-	-	32	137,440	20.29
1987	1,699	35.5	12,477	10.7	1.1	45.17	27.49	33.76	-	-	-	-	-	-	-	30	138,062	25.75
1988	1,102	73.8	12,458	10.8	.9	46.24	28.07	41.49	-	-	-	-	-	-	-	*	137,907	40.77
1989	1,791	60.8	12,206	11.5	1.1	41.88	28.61	36.68	-	-	-	-	-	-	-	40	137,192	26.23
1990	2,152	56.0	12,308	11.7	1.1	39.77	27.17	34.23	-	-	-	-	-	-	-	37	137,260	32.21
Central Power & Light Co																		
1986	1,792	84.3	10,764	5.2	.3	49.61	37.84	47.76	-	-	-	-	-	-	-	-	-	-
1987	1,958	76.9	10,802	5.6	.4	47.10	35.69	44.47	-	-	-	-	-	-	-	-	-	-
1988	1,912	79.5	10,815	5.5	.4	47.54	35.02	44.97	-	-	-	-	-	-	-	-	-	-
1989	1,756	95.0	10,851	5.2	.4	46.93	40.98	46.64	[2] 115	-	147,278	7	-	18.99	18.99	9	137,668	21.40
1990	1,829	66.2	10,588	6.3	.4	47.26	36.52	43.63	-	-	-	-	-	-	-	81	138,496	24.71
Century Power Corp																		
1986	925	100.0	9,522	14.2	.8	36.92	-	36.92	-	-	-	-	-	-	-	15	140,472	24.80
1987	909	100.0	9,617	13.9	.8	34.52	-	34.52	-	-	-	-	-	-	-	7	138,816	24.78

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Central Hudson Gas & Elec Corp																
1986	555	1,037	2.98	5.83	4.50	53.5	27	72,620	575	*	99	1	183,993	52	181,442	2,499
1987	6,023	1,034	2.71	5.32	2.74	1.4	12,388	53,512	6,228	17	74	9	199,747	23,275	159,952	16,520
1988	2,150	1,035	2.41	4.86	2.66	10.1	24,836	62,676	2,225	28	70	2	198,342	47,463	145,161	5,718
1989	4,718	1,033	2.95	5.29	3.02	3.1	22,385	70,077	4,872	23	72	5	248,240	43,644	190,354	14,242
1990	6,193	1,034	2.90	5.20	2.96	2.6	24,436	66,430	6,401	25	68	7	276,941	50,277	208,308	18,356
Central Illinois Light Co																
1986	-	-	-	-	-	-	51,791	120	-	100	*	-	99,976	99,523	453	-
1987	-	-	-	-	-	-	53,097	85	-	100	*	-	98,255	97,894	361	-
1988	-	-	-	-	-	-	50,415	85	-	100	*	-	92,427	92,018	409	-
1989	-	-	-	-	-	-	53,184	81	-	100	*	-	94,434	94,051	383	-
1990	-	-	-	-	-	-	51,031	93	-	100	*	-	91,980	91,454	526	-
Central Illinois Pub Serv Co																
1986	-	-	-	-	-	-	109,165	690	-	99	1	-	187,476	185,790	1,686	-
1987	-	-	-	-	-	-	106,831	314	-	100	*	-	181,737	180,402	1,335	-
1988	-	-	-	-	-	-	94,767	348	-	100	*	-	147,023	145,699	1,324	-
1989	-	-	-	-	-	-	97,332	544	-	99	1	-	157,953	155,744	2,209	-
1990	-	-	-	-	-	-	104,974	616	-	99	1	-	171,031	168,274	2,756	-
Central Iowa Power Coop																
1987	8	1,027	2.98	3.28	3.13	49.2	3,876	-	8	100	-	*	4,387	4,361	-	25
1988	6	1,021	2.75	3.50	2.90	20.7	3,782	-	6	100	-	*	4,422	4,404	-	18
1989	9	1,021	2.97	3.49	3.11	27.2	3,314	-	9	100	-	*	3,612	3,583	-	29
1990	8	1,028	3.50	3.97	3.67	35.7	3,101	-	8	100	-	*	3,681	3,651	-	30
Central Louisiana Elec Co Inc																
1986	32,891	1,041	2.75	-	2.75	-	55,033	-	34,245	62	-	38	175,399	85,075	-	90,324
1987	29,116	1,045	2.10	-	2.10	-	70,583	-	30,420	70	-	30	165,565	104,546	-	61,020
1988	26,223	1,042	2.11	-	2.11	-	74,632	-	27,336	73	-	27	166,501	111,047	-	55,454
1989	29,242	1,043	2.28	-	2.28	-	72,370	-	30,488	70	-	30	176,863	110,141	-	66,722
1990	26,944	1,045	2.34	-	2.34	-	73,164	-	28,149	72	-	28	178,256	115,073	-	63,183
Central Maine Power Co																
1986	-	-	-	-	-	-	-	28,189	-	-	100	-	67,263	-	67,263	-
1987	-	-	-	-	-	-	-	25,144	-	-	100	-	73,827	-	73,827	-
1988	-	-	-	-	-	-	-	31,467	-	-	100	-	73,768	-	73,768	-
1989	-	-	-	-	-	-	-	30,351	-	-	100	-	83,987	-	83,987	-
1990	-	-	-	-	-	-	-	23,480	-	-	100	-	64,942	-	64,942	-
Central Nebraska Pub P&I Dist																
1986	349	944	3.16	-	3.16	-	-	108	329	-	25	75	1,351	-	251	1,101
1987	73	939	3.15	-	3.15	-	-	138	68	-	67	33	545	-	315	229
1988	854	940	2.34	-	2.34	-	-	591	803	-	42	58	3,381	-	1,382	2,000
1989	1,125	940	2.00	-	2.00	-	-	375	1,057	-	26	74	3,055	-	808	2,247
1990	2,039	936	1.78	-	1.78	-	-	-	1,908	-	-	100	3,633	-	-	3,633
Central Operating Co																
1986	-	-	-	-	-	-	45,241	185	-	100	*	-	74,062	73,412	649	-
1987	-	-	-	-	-	-	42,409	171	-	100	*	-	58,134	57,374	760	-
1988	-	-	-	-	-	-	27,469	3	-	100	*	-	45,760	45,739	20	-
1989	-	-	-	-	-	-	43,731	232	-	99	1	-	66,762	65,705	1,057	-
1990	-	-	-	-	-	-	52,966	215	-	100	*	-	74,856	73,654	1,201	-
Central Power & Light Co																
1986	119,250	1,039	1.64	3.14	2.37	48.5	38,573	-	123,904	24	-	76	367,771	85,567	-	282,204
1987	98,041	1,038	1.54	2.75	2.17	51.8	42,309	-	101,813	29	-	71	299,777	87,082	-	212,695
1988	92,927	1,043	1.67	2.74	2.30	59.4	41,359	-	96,969	30	-	70	300,161	85,985	-	214,176
1989	94,308	1,045	1.75	2.78	2.40	62.6	38,100	765	98,549	28	1	72	310,145	81,876	2,384	225,886
1990	83,418	1,052	1.61	2.80	2.32	59.8	38,727	470	87,752	31	*	69	275,543	79,787	1,997	193,759
Century Power Corp																
1986	-	-	-	-	-	-	17,611	87	-	100	*	-	34,504	34,140	365	-
1987	-	-	-	-	-	-	17,478	42	-	100	*	-	31,545	31,365	179	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Century Power Corp																		
1988	1,249	100.0	9,565	13.9	0.8	35.55	-	35.55	-	-	-	-	-	-	-	10	140,377	24.62
1989	1,360	100.0	9,517	15.1	.7	35.50	-	35.50	-	-	-	-	-	-	-	17	140,688	28.18
1990	1,785	100.0	9,268	16.5	.6	36.48	-	36.48	-	-	-	-	-	-	-	49	141,023	31.49
Cincinnati Gas & Electric Co																		
1986	5,761	90.5	11,481	13.1	2.0	40.31	29.64	39.30	-	-	-	-	-	-	-	70	138,001	21.75
1987	6,370	76.5	11,579	12.3	1.7	38.85	25.59	35.73	-	-	-	-	-	-	-	86	137,806	23.46
1988	6,523	67.2	11,521	12.1	1.8	38.63	23.17	33.56	-	-	-	-	-	-	-	78	137,792	20.82
1989	6,549	78.2	11,542	12.1	1.7	37.10	24.19	34.28	-	-	-	-	-	-	-	78	137,369	24.99
1990	8,005	54.4	11,684	12.0	1.9	39.04	26.84	33.48	-	-	-	-	-	-	-	72	137,691	30.09
Cleveland Electric Illum Co																		
1986	5,545	65.4	12,510	9.3	2.7	41.39	36.60	39.73	72	-	149,979	1.2	-	17.18	17.18	70	137,504	23.16
1987	5,879	58.4	12,484	9.5	2.7	40.85	33.81	37.92	51	-	152,712	1.2	-	19.25	19.25	56	137,971	24.38
1988	5,081	53.3	12,517	9.5	2.7	43.10	34.29	38.99	387	-	152,020	1.3	-	15.64	15.64	81	137,611	24.75
1989	5,524	51.8	12,531	9.4	2.7	41.18	33.86	37.65	388	-	152,977	1.1	-	17.07	17.07	56	138,307	25.57
1990	5,381	47.4	12,580	9.3	2.6	41.05	36.73	38.77	192	-	153,379	1.1	-	20.07	20.07	39	138,983	30.52
Coffeyville City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado Springs City of																		
1986	1,494	100.0	10,655	7.2	.4	35.85	-	35.85	-	-	-	-	-	-	-	4	137,118	19.27
1987	1,313	86.5	10,668	6.8	.4	36.46	22.37	34.55	-	-	-	-	-	-	-	-	-	-
1988	1,207	89.5	10,575	7.1	.4	37.25	20.43	35.48	*	-	158,000	.4	-	18.61	18.61	*	132,405	20.20
1989	1,431	76.7	10,630	6.9	.4	36.26	20.13	32.51	-	-	-	-	-	-	-	-	-	-
1990	1,369	50.9	10,700	6.6	.4	37.16	23.48	30.45	-	-	-	-	-	-	-	-	-	-
Colorado Ute Electric Assn Inc																		
1986	4,711	99.7	10,309	7.9	.4	18.96	10.78	18.94	-	-	-	-	-	-	-	7	137,196	20.92
1987	5,140	97.7	10,367	8.1	.4	18.84	15.25	18.75	-	-	-	-	-	-	-	3	136,093	23.02
1988	6,057	81.7	10,316	8.1	.4	19.27	15.74	18.62	-	-	-	-	-	-	-	3	137,082	20.20
1989	5,934	88.2	10,331	8.0	.4	20.08	17.86	19.82	-	-	-	-	-	-	-	5	137,932	24.88
1990	5,613	81.6	10,322	7.8	.4	19.78	16.74	19.22	-	-	-	-	-	-	-	7	136,931	32.25
Columbia City of																		
1986	52	100.0	10,979	10.2	3.8	35.14	-	35.14	-	-	-	-	-	-	-	-	-	-
1987	63	100.0	10,656	11.3	4.1	34.45	-	34.45	-	-	-	-	-	-	-	-	-	-
1988	58	100.0	10,844	10.7	3.8	33.46	-	33.46	-	-	-	-	-	-	-	-	-	-
1989	42	96.6	10,878	11.1	3.6	33.44	59.44	34.33	-	-	-	-	-	-	-	-	-	-
1990	36	36.9	12,800	7.9	1.8	33.41	60.12	50.27	-	-	-	-	-	-	-	-	-	-
Columbus Southern Power Co																		
1986	3,489	100.0	11,984	8.1	3.3	38.15	-	38.15	-	-	-	-	-	-	-	43	139,212	22.43
1987	3,411	99.7	11,976	8.2	3.0	37.60	22.61	37.56	-	-	-	-	-	-	-	33	139,523	23.83
1988	3,214	100.0	11,845	8.1	3.0	37.67	-	37.67	-	-	-	-	-	-	-	26	139,600	21.46
1989	3,878	83.8	11,778	8.2	3.1	38.18	21.01	35.41	-	-	-	-	-	-	-	47	139,123	24.02
1990	3,905	84.7	11,763	8.3	3.1	39.18	22.08	36.56	-	-	-	-	-	-	-	26	139,659	31.78
Columbus City of																		
1986	93	-	12,610	8.0	.7	-	43.36	43.36	-	-	-	-	-	-	-	-	-	-
1987	56	-	12,274	8.6	.8	-	40.03	40.03	-	-	-	-	-	-	-	-	-	-
1988	58	-	12,385	7.2	.7	-	38.02	38.02	-	-	-	-	-	-	-	-	-	-
1989	61	-	12,476	7.3	.7	-	38.01	38.01	-	-	-	-	-	-	-	-	-	-
1990	45	-	12,329	8.6	.7	-	41.58	41.58	-	-	-	-	-	-	-	-	-	-
Commonwealth Edison Co IN Inc																		
1986	1,384	100.0	9,481	4.6	.4	53.93	-	53.93	-	-	-	-	-	-	-	-	-	-
1987	985	100.0	9,506	4.4	.4	56.03	-	56.03	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Century Power Corp																
1988	-	-	-	-	-	-	23,904	59	-	100	*	-	44,666	44,420	246	-
1989	-	-	-	-	-	-	25,893	100	-	100	*	-	48,772	48,296	476	-
1990	-	-	-	-	-	-	33,085	290	-	99	1	-	66,664	65,120	1,543	-
Cincinnati Gas & Electric Co																
1986	-	-	-	-	-	-	132,292	408	-	100	*	-	227,942	226,411	1,531	-
1987	-	-	-	-	-	-	147,525	495	-	100	*	-	229,616	227,607	2,009	-
1988	-	-	-	-	-	-	150,315	453	-	100	*	-	220,530	218,902	1,628	-
1989	-	-	-	-	-	-	151,172	450	-	100	*	-	226,474	224,525	1,949	-
1990	-	-	-	-	-	-	187,066	419	-	100	*	-	270,186	268,005	2,181	-
Cleveland Electric Illum Co																
1986	-	-	-	-	-	-	138,732	858	-	99	1	-	223,177	220,319	2,858	-
1987	-	-	-	-	-	-	146,782	652	-	100	*	-	225,287	222,940	2,347	-
1988	-	-	-	-	-	-	127,202	2,939	-	98	2	-	206,152	198,097	8,055	-
1989	-	-	-	-	-	-	138,435	2,821	-	98	2	-	216,021	207,957	8,064	-
1990	-	-	-	-	-	-	135,387	1,462	-	99	1	-	213,679	208,643	5,036	-
Coffeyville City of																
1986	440	1,000	2.63	-	2.63	-	-	-	440	-	-	100	1,155	-	-	1,155
1987	425	1,000	2.51	-	2.51	-	-	-	425	-	-	100	1,064	-	-	1,064
1988	522	1,000	2.46	-	2.46	-	-	-	522	-	-	100	1,283	-	-	1,283
1989	259	1,000	2.33	-	2.33	-	-	-	259	-	-	100	604	-	-	604
1990	462	1,000	2.35	-	2.35	-	-	-	462	-	-	100	1,086	-	-	1,086
Colorado Springs City of																
1986	85	986	4.26	4.27	4.27	58.1	31,838	23	84	100	*	*	54,004	53,564	78	362
1987	117	982	3.77	4.07	3.98	70.8	28,007	-	115	100	-	*	45,812	45,347	-	466
1988	500	975	2.67	2.93	2.78	43.4	25,526	4	488	98	*	2	44,218	42,815	12	1,391
1989	659	974	2.57	4.16	2.84	16.9	30,422	-	642	98	-	2	48,385	46,515	-	1,870
1990	58	980	4.42	4.19	4.20	95.5	29,289	-	57	100	-	*	41,920	41,676	-	244
Colorado Ute Electric Assn Inc																
1986	352	1,036	3.41	-	3.41	-	97,120	40	365	100	*	*	90,565	89,217	146	1,201
1987	304	1,051	2.79	-	2.79	-	106,564	15	320	100	*	*	97,303	96,395	60	848
1988	215	1,050	2.77	-	2.77	-	124,965	20	226	100	*	*	113,474	112,807	71	596
1989	148	1,050	2.73	-	2.73	-	122,615	27	155	100	*	*	118,109	117,590	114	405
1990	233	1,043	2.66	-	2.66	-	115,878	41	243	100	*	*	108,740	107,892	229	620
Columbia City of																
1986	1	1,000	3.17	-	3.17	-	1,146	-	1	100	-	*	1,837	1,833	-	3
1987	-	-	-	-	-	-	1,342	-	-	100	-	-	2,170	2,170	-	-
1988	-	-	-	-	-	-	1,262	-	-	100	-	-	1,946	1,946	-	-
1989	-	-	-	-	-	-	909	-	-	100	-	-	1,435	1,435	-	-
1990	-	-	-	-	-	-	924	-	-	100	-	-	1,815	1,815	-	-
Columbus Southern Power Co																
1986	-	-	-	-	-	-	83,626	253	-	100	*	-	134,089	133,118	971	-
1987	-	-	-	-	-	-	81,693	194	-	100	*	-	128,880	128,091	789	-
1988	-	-	-	-	-	-	76,133	150	-	100	*	-	121,619	121,070	549	-
1989	-	-	-	-	-	-	91,366	276	-	100	*	-	138,474	137,338	1,136	-
1990	-	-	-	-	-	-	91,863	154	-	100	*	-	143,587	142,755	833	-
Columbus City of																
1986	-	-	-	-	-	-	2,353	-	-	100	-	-	4,046	4,046	-	-
1987	-	-	-	-	-	-	1,367	-	-	100	-	-	2,229	2,229	-	-
1988	-	-	-	-	-	-	1,442	-	-	100	-	-	2,214	2,214	-	-
1989	-	-	-	-	-	-	1,527	-	-	100	-	-	2,326	2,326	-	-
1990	-	-	-	-	-	-	1,118	-	-	100	-	-	1,886	1,886	-	-
Commonwealth Edison Co IN Inc																
1986	161	1,029	-	3.96	3.96	100.0	26,245	-	166	99	-	1	75,271	74,635	-	637
1987	211	1,024	-	3.68	3.68	100.0	18,726	-	216	99	-	1	55,965	55,189	-	776

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Commonwealth Edison Co																		
1986	14,389	100.0	9,646	6.8	1.0	55.94	-	55.94	2,095	100.0	150,579	0.7	35.08	-	35.08	211	139,593	21.18
1987	10,379	100.0	9,674	7.1	1.0	55.83	-	55.83	3,468	100.0	150,947	.7	22.62	-	22.62	240	140,142	24.83
1988	10,932	100.0	9,674	6.7	.9	51.24	-	51.24	1,277	100.0	150,785	.7	18.89	-	18.89	278	138,564	21.46
1989	8,516	100.0	9,683	7.3	1.1	49.21	-	49.21	1,705	100.0	150,720	.7	21.50	-	21.50	259	138,604	24.93
1990	8,516	100.0	9,747	7.2	1.2	48.77	-	48.77	1,449	100.0	151,867	.7	24.11	-	24.11	282	138,507	29.34
Commonwealth Electric Co																		
1986	-	-	-	-	-	-	-	-	370	100.0	150,547	.8	16.39	-	16.39	-	-	-
1987	-	-	-	-	-	-	-	-	99	100.0	150,856	.9	18.60	-	18.60	-	-	-
1988	-	-	-	-	-	-	-	-	290	100.0	151,431	1.0	15.91	-	15.91	-	-	-
1989	-	-	-	-	-	-	-	-	225	100.0	149,718	.8	18.37	-	18.37	-	-	-
1990	-	-	-	-	-	-	-	-	72	100.0	150,195	.9	19.47	-	19.47	-	-	-
Connecticut Light & Power Co																		
1986	-	-	-	-	-	-	-	-	12,170	99.0	149,304	.8	15.84	13.91	15.82	20	138,161	21.07
1987	-	-	-	-	-	-	-	-	9,102	98.6	149,744	.8	18.68	18.18	18.67	24	137,951	23.21
1988	-	-	-	-	-	-	-	-	12,020	98.2	149,804	.8	15.42	14.38	15.40	27	137,451	20.85
1989	-	-	-	-	-	-	-	-	12,555	97.8	149,744	.8	18.28	16.38	18.24	25	138,385	25.07
1990	-	-	-	-	-	-	-	-	9,366	96.5	150,441	.8	19.25	17.79	19.20	30	138,753	33.51
Consolidated Edison Co-NY Inc																		
1986	-	-	-	-	-	-	-	-	16,021	74.5	147,180	.3	16.53	13.64	15.79	-	-	-
1987	-	-	-	-	-	-	-	-	17,842	89.3	147,476	.3	19.70	17.94	19.54	-	-	-
1988	-	-	-	-	-	-	-	-	21,149	81.7	147,840	.3	16.21	15.57	16.10	-	-	-
1989	-	-	-	-	-	-	-	-	23,991	93.1	148,477	.3	19.41	18.56	19.35	-	-	-
1990	-	-	-	-	-	-	-	-	18,958	97.5	148,198	.3	25.96	17.67	25.75	-	-	-
Consumers Power Co																		
1986	7,204	85.4	12,246	9.6	1.0	46.91	36.12	45.33	705	-	147,619	1.0	-	15.85	15.85	2	138,017	14.48
1987	6,848	75.1	12,396	9.6	.9	47.29	37.75	44.91	244	-	147,540	1.0	-	18.67	18.67	-	-	-
1988	6,737	62.5	12,451	9.5	.8	49.70	37.93	45.29	961	-	147,499	1.0	-	15.71	15.71	-	-	-
1989	7,032	58.7	12,053	9.6	.7	48.13	35.61	42.95	893	-	147,295	1.0	-	17.29	17.29	-	-	-
1990	6,710	52.3	12,097	10.0	.8	41.02	36.49	38.86	615	-	150,294	1.0	-	18.57	18.57	-	-	-
Coop Power Assn																		
1986	5,766	94.5	6,275	10.3	.7	11.65	5.20	11.29	4	-	147,000	2.5	-	18.21	18.21	-	-	-
1987	4,592	100.0	6,254	10.4	.7	11.72	-	11.72	7	-	147,000	2.5	-	14.07	14.07	-	-	-
1988	6,765	98.7	6,299	10.6	.6	9.14	5.99	9.10	4	-	147,000	2.5	-	11.93	11.93	-	-	-
1989	7,094	95.5	6,277	10.6	.6	8.98	6.00	8.85	6	-	147,000	2.5	-	11.93	11.93	-	-	-
1990	6,776	100.0	6,360	10.6	.8	8.69	-	8.69	9	-	147,000	2.5	-	12.91	12.91	-	-	-
Dairyland Power Coop																		
1986	2,232	100.0	9,763	6.7	1.0	34.29	-	34.29	-	-	-	-	-	-	-	4	140,000	20.10
1987	[1] 2,036	97.6	9,777	5.5	.9	26.41	22.24	26.30	-	-	-	-	-	-	-	9	140,000	24.05
1988	2,130	88.7	9,392	6.8	1.1	25.36	18.13	24.55	-	-	-	-	-	-	-	15	140,000	21.03
1989	2,236	70.6	9,521	6.1	1.0	26.40	21.56	24.97	-	-	-	-	-	-	-	21	140,000	24.31
1990	2,035	61.4	9,219	6.3	.9	26.25	21.71	24.50	-	-	-	-	-	-	-	18	140,000	26.99
Dayton Power & Light Co																		
1986	8,118	63.8	11,826	13.0	1.3	45.71	28.22	39.38	-	-	-	-	-	-	-	16	136,463	22.01
1987	8,729	56.0	11,741	13.3	1.3	44.74	26.77	36.82	-	-	-	-	-	-	-	46	136,481	21.99
1988	8,154	42.2	11,848	13.1	1.3	46.64	25.34	34.33	-	-	-	-	-	-	-	78	136,950	20.93
1989	8,702	37.9	11,743	13.1	1.2	45.08	27.28	34.02	-	-	-	-	-	-	-	69	138,872	22.71
1990	9,054	39.4	11,817	13.1	1.2	45.55	29.02	35.54	-	-	-	-	-	-	-	41	138,090	29.40
Deepwater Operating Co																		
1986	184	96.2	13,066	8.1	.8	47.40	40.44	47.14	196	100.0	148,945	1.0	13.86	-	13.86	-	-	-
1987	187	92.5	13,121	7.8	.8	43.25	41.24	43.10	141	100.0	149,362	.9	19.72	-	19.72	-	-	-
1988	156	95.5	13,153	7.9	.8	44.78	44.87	44.79	361	100.0	149,643	.9	14.79	-	14.79	-	-	-
1989	173	100.0	13,073	8.2	.8	45.88	-	45.88	240	100.0	149,408	.9	18.80	-	18.80	-	-	-
1990	193	95.9	12,938	9.4	.8	46.03	45.54	46.01	188	100.0	149,573	1.0	17.24	-	17.24	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Commonwealth Edison Co																
1986	4,595	1,025	3.65	5.02	5.00	98.4	277,596	14,488	4,708	94	5	2	905,828	804,877	77,968	22,984
1987	1,245	1,021	3.41	4.41	4.39	97.5	200,812	23,401	1,271	89	10	1	669,340	579,449	84,431	5,460
1988	3,564	1,021	3.08	3.81	3.49	55.8	211,511	9,703	3,639	94	4	2	602,639	560,132	30,077	12,430
1989	4,158	1,018	3.08	4.63	3.56	31.1	164,928	12,299	4,233	91	7	2	476,947	419,053	43,098	14,796
1990	5,379	1,024	2.75	4.23	3.04	19.7	165,998	10,880	5,506	91	6	3	474,812	415,273	43,199	16,340
Commonwealth Electric Co																
1986	153	1,000	2.61	-	2.61	-	-	2,340	153	-	94	6	6,464	-	6,065	399
1987	1,693	1,000	2.72	-	2.72	-	-	627	1,693	-	27	73	6,445	-	1,841	4,604
1988	798	1,000	2.27	-	2.27	-	-	1,844	798	-	70	30	6,425	-	4,613	1,812
1989	919	1,000	2.49	-	2.49	-	-	1,415	919	-	61	39	6,425	-	4,132	2,293
1990	534	1,000	2.84	-	2.84	-	-	454	534	-	46	54	2,920	-	1,402	1,518
Connecticut Light & Power Co																
1986	641	1,036	2.14	-	2.14	-	-	76,428	664	-	99	1	194,343	-	192,973	1,370
1987	4,190	1,032	2.19	-	2.19	-	-	57,385	4,322	-	93	7	179,683	-	170,516	9,167
1988	1,214	1,031	2.23	-	2.23	-	-	75,784	1,251	-	98	2	188,353	-	185,649	2,704
1989	1,004	1,030	2.61	-	2.61	-	-	79,109	1,034	-	99	1	232,203	-	229,581	2,622
1990	1,943	1,033	2.41	5.08	2.42	.1	-	59,351	2,008	-	97	3	185,532	-	180,834	4,698
Consolidated Edison Co-NY Inc																
1986	70,109	1,036	-	2.31	2.31	100.0	-	99,032	72,613	-	58	42	414,780	-	253,020	161,760
1987	68,458	1,029	-	2.69	2.69	100.0	-	110,514	70,454	-	61	39	532,341	-	348,439	183,902
1988	69,925	1,030	-	2.32	2.32	100.0	-	131,319	72,036	-	65	35	502,487	-	340,399	162,088
1989	75,876	1,030	-	2.29	2.29	100.0	-	149,606	78,165	-	66	34	637,669	-	464,217	173,452
1990	103,150	1,033	2.35	2.24	2.30	46.5	-	118,000	106,518	-	53	47	725,424	-	488,236	237,188
Consumers Power Co																
1986	-	-	-	-	-	-	176,426	4,383	-	98	2	-	337,734	326,531	11,204	-
1987	-	-	-	-	-	-	169,778	1,511	-	99	1	-	312,108	307,556	4,552	-
1988	-	-	-	-	-	-	167,769	5,953	-	97	3	-	320,210	305,110	15,100	-
1989	-	-	-	-	-	-	169,510	5,526	-	97	3	-	317,489	302,041	15,448	-
1990	-	-	-	-	-	-	162,337	3,880	-	98	2	-	272,165	260,755	11,411	-
Coop Power Assn																
1986	-	-	-	-	-	-	72,363	23	-	100	*	-	65,172	65,104	68	-
1987	-	-	-	-	-	-	57,435	44	-	100	*	-	53,924	53,822	101	-
1988	-	-	-	-	-	-	85,230	22	-	100	*	-	61,573	61,531	42	-
1989	-	-	-	-	-	-	89,058	35	-	100	*	-	62,824	62,756	68	-
1990	-	-	-	-	-	-	86,191	55	-	100	*	-	59,001	58,885	116	-
Dairyland Power Coop																
1986	-	-	-	-	-	-	43,585	22	-	100	*	-	76,626	76,552	74	-
1987	-	-	-	-	-	-	39,816	52	-	100	*	-	53,771	53,559	212	-
1988	-	-	-	-	-	-	40,003	90	-	100	*	-	52,608	52,285	323	-
1989	-	-	-	-	-	-	42,583	123	-	100	*	-	56,358	55,848	511	-
1990	-	-	-	-	-	-	37,516	109	-	100	*	-	50,346	49,847	499	-
Dayton Power & Light Co																
1986	170	1,020	4.64	-	4.64	-	192,019	92	174	100	*	*	320,866	319,720	354	791
1987	200	1,020	4.07	-	4.07	-	204,966	263	204	100	*	*	323,226	321,405	1,007	813
1988	262	1,020	3.97	-	3.97	-	193,206	449	267	100	*	*	282,615	279,941	1,635	1,038
1989	182	1,020	4.03	-	4.03	-	204,381	401	186	100	*	*	298,357	296,062	1,560	735
1990	255	1,020	3.76	-	3.76	-	213,984	240	260	100	*	*	323,956	321,779	1,217	960
Deepwater Operating Co																
1986	570	1,036	2.41	-	2.41	-	4,808	1,226	591	73	19	9	12,765	8,673	2,716	1,376
1987	2,277	1,028	2.87	-	2.87	-	4,907	885	2,342	60	11	29	17,366	8,059	2,780	6,527
1988	86	1,032	2.54	-	2.54	-	4,104	2,269	89	64	35	1	12,546	6,987	5,341	218
1989	1,779	1,034	2.78	-	2.78	-	4,523	1,506	1,840	57	19	23	17,390	7,937	4,513	4,940
1990	1,637	1,039	2.42	-	2.42	-	4,994	1,181	1,701	63	15	22	16,075	8,881	3,241	3,954

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Delmarva Power & Light Co																		
1986	2,296	84.7	13,000	8.8	1.0	50.53	45.44	49.75	3,312	84.7	149,765	1.1	14.08	13.90	14.05	152	139,981	20.32
1987	2,422	85.4	13,065	8.7	1.0	48.26	41.90	47.33	3,051	49.5	150,698	1.2	18.66	16.55	17.59	106	137,599	22.94
1988	2,525	75.8	12,901	9.1	1.1	47.71	43.15	46.60	4,020	52.2	151,327	1.1	13.95	14.84	14.38	170	135,151	19.90
1989	1,918	88.4	12,943	9.0	1.0	47.06	41.53	46.41	3,747	86.2	151,169	1.1	17.16	15.84	16.98	217	135,785	22.18
1990	2,192	74.3	13,035	8.7	1.0	47.96	45.44	47.31	1,861	53.3	151,575	1.2	18.67	17.35	18.06	99	137,990	26.01
Denton City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	139,625	29.03
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	139,700	32.35
Deseret Generation & Tran Coop																		
1986	655	100.0	10,645	8.8	.4	41.81	-	41.81	-	-	-	-	-	-	-	40	140,572	22.60
1987	1,050	100.0	10,698	8.8	.4	44.08	-	44.08	-	-	-	-	-	-	-	9	141,000	23.52
1988	1,029	100.0	10,770	8.5	.4	53.39	-	53.39	-	-	-	-	-	-	-	2	141,000	23.52
1989	1,343	100.0	10,776	8.7	.4	51.68	-	51.68	-	-	-	-	-	-	-	1	141,000	32.25
1990	1,508	100.0	10,736	8.9	.5	47.95	-	47.95	-	-	-	-	-	-	-	-	-	-
Detroit City of																		
1986	-	-	-	-	-	-	-	-	332	-	148,207	.6	-	19.29	19.29	15	140,750	23.94
1987	-	-	-	-	-	-	-	-	320	-	146,933	.7	-	17.83	17.83	-	-	-
1988	-	-	-	-	-	-	-	-	486	-	147,835	.7	-	17.85	17.85	11	140,754	20.55
1989	-	-	-	-	-	-	-	-	381	-	146,760	.7	-	17.42	17.42	49	139,953	26.57
1990	-	-	-	-	-	-	-	-	393	5.9	144,951	.6	16.01	16.56	16.53	15	139,450	23.72
Detroit Edison Co																		
1986	17,493	80.4	11,382	6.1	.7	42.95	31.70	40.74	459	-	148,244	.7	-	14.04	14.04	422	137,813	19.71
1987	19,603	75.2	11,291	5.9	.7	41.57	29.30	38.53	403	-	145,982	.7	-	21.02	21.02	383	137,630	23.01
1988	18,516	80.6	11,317	5.9	.7	40.75	32.60	39.17	517	-	146,622	.7	-	16.02	16.02	394	138,851	20.73
1989	18,328	89.5	10,955	5.7	.6	38.11	28.39	37.09	714	-	145,536	.7	-	20.05	20.05	287	138,369	24.06
1990	19,616	85.5	10,714	5.6	.6	34.87	25.90	33.57	295	39.0	147,085	.8	20.62	17.48	18.71	277	137,828	26.90
Dover City of																		
1986	-	-	-	-	-	-	-	-	676	100.0	151,122	2.4	15.05	-	15.05	5	140,769	20.18
1987	-	-	-	-	-	-	-	-	397	97.9	151,533	2.2	17.34	17.50	17.35	*	140,853	19.34
1988	-	-	-	-	-	-	-	-	766	100.0	152,110	2.1	14.57	-	14.57	-	-	-
1989	-	-	-	-	-	-	-	-	768	100.0	151,736	2.1	16.39	-	16.39	-	-	-
1990	-	-	-	-	-	-	-	-	490	100.0	151,637	2.1	18.08	-	18.08	-	-	-
Duke Power Co																		
1986	9,768	84.2	12,539	10.1	1.0	48.28	34.65	46.13	-	-	-	-	-	-	-	100	138,634	20.56
1987	8,567	82.8	12,510	10.0	.9	46.59	35.92	44.75	-	-	-	-	-	-	-	132	138,254	22.50
1988	8,444	87.4	12,552	10.0	1.0	46.09	34.23	44.59	-	-	-	-	-	-	-	117	138,744	20.70
1989	9,572	76.9	12,489	10.0	.9	46.21	38.15	44.35	-	-	-	-	-	-	-	106	138,626	24.04
1990	10,257	73.4	12,535	9.6	1.0	46.59	36.89	44.01	-	-	-	-	-	-	-	116	138,519	30.82
Duquesne Light Co																		
1986	2,217	97.4	12,180	12.9	1.6	42.21	29.86	41.90	-	-	-	-	-	-	-	67	136,311	26.38
1987	2,374	91.4	12,211	13.1	1.6	38.94	28.90	38.08	-	-	-	-	-	-	-	47	136,355	25.84
1988	2,055	80.4	12,278	12.6	1.6	36.46	28.26	34.85	-	-	-	-	-	-	-	34	136,962	22.33
1989	2,514	52.0	12,258	12.6	1.7	33.38	26.59	30.12	-	-	-	-	-	-	-	19	136,398	25.48
1990	2,238	74.1	12,355	11.9	1.7	37.88	28.26	35.39	-	-	-	-	-	-	-	21	136,861	31.26
East Kentucky Power Coop																		
1986	3,026	36.6	11,815	11.7	1.3	26.27	27.33	26.94	-	-	-	-	-	-	-	10	138,600	21.47
1987	3,198	32.7	11,904	11.4	1.3	26.76	26.05	26.28	-	-	-	-	-	-	-	9	138,600	24.72
1988	2,893	36.4	12,044	11.6	1.1	27.80	25.67	26.44	-	-	-	-	-	-	-	10	138,600	20.96
1989	2,378	41.0	12,029	11.6	1.1	26.94	27.15	27.06	-	-	-	-	-	-	-	13	138,600	23.74
1990	2,854	37.8	12,155	11.2	1.2	28.15	29.50	28.99	-	-	-	-	-	-	-	6	138,600	31.82

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Delmarva Power & Light Co																
1986	[3] 1,384	1,048	2.55	-	2.55	-	59,701	21,722	1,451	72	26	2	167,382	114,241	49,615	3,526
1987	[3] 6,405	1,037	2.88	-	2.88	-	63,299	19,921	6,644	70	22	7	189,201	114,662	56,105	18,434
1988	[3] 819	1,095	2.64	-	2.64	-	65,140	26,519	897	70	29	1	181,001	117,655	61,185	2,161
1989	[3] 5,709	1,077	2.99	2.34	2.72	41.6	49,645	25,027	6,151	61	31	8	173,011	89,013	68,445	15,553
1990	[3] 3,150	1,061	2.49	3.04	2.66	31.8	57,134	12,421	3,344	78	17	5	148,257	103,684	36,181	8,391
Denton City of																
1986	933	1,084	1.89	-	1.89	-	-	-	1,012	-	-	100	1,760	-	-	1,760
1987	642	1,142	2.68	-	2.68	-	-	-	734	-	-	100	1,724	-	-	1,724
1988	1,094	1,066	2.41	-	2.41	-	-	-	1,165	-	-	100	2,640	-	-	2,640
1989	642	1,093	2.10	-	2.10	-	-	204	702	-	23	77	2,360	-	1,010	1,350
1990	1,201	1,050	1.94	-	1.94	-	-	40	1,261	-	3	97	2,547	-	222	2,325
Deseret Generation & Tran Coop																
1986	-	-	-	-	-	-	13,941	233	-	98	2	-	28,271	27,378	893	-
1987	-	-	-	-	-	-	22,466	53	-	100	*	-	46,499	46,287	212	-
1988	-	-	-	-	-	-	22,166	12	-	100	*	-	54,985	54,938	47	-
1989	-	-	-	-	-	-	28,945	6	-	100	*	-	69,439	69,407	32	-
1990	1	1,000	5.04	-	5.04	-	32,381	-	1	100	-	*	72,308	72,303	-	5
Detroit City of																
1986	1,800	1,012	4.08	-	4.08	-	-	2,153	1,822	-	54	46	14,094	-	6,754	7,340
1987	2,505	1,016	2.86	2.99	2.91	38.5	-	1,975	2,545	-	44	56	12,989	-	5,706	7,282
1988	22	1,016	2.75	-	2.75	-	-	3,084	22	-	99	1	8,966	-	8,906	60
1989	-	-	-	-	-	-	-	2,636	-	-	100	-	7,935	-	7,935	-
1990	1,912	1,016	2.77	-	2.77	-	-	2,479	1,943	-	56	44	12,140	-	6,848	5,293
Detroit Edison Co																
1986	[3] 8,185	196	.56	5.41	.62	1.2	398,227	5,303	1,605	98	1	*	732,582	712,707	14,770	5,105
1987	[3] 7,637	184	.42	3.03	.44	.9	442,686	4,688	1,403	99	1	*	776,029	755,351	17,296	3,382
1988	12,746	135	.32	.27	.31	12.4	419,078	5,484	1,724	98	1	*	745,684	725,239	16,459	3,985
1989	16,243	108	.19	-	.19	-	401,575	6,035	1,746	98	1	*	704,013	679,735	21,234	3,045
1990	17,856	100	.16	-	.16	-	420,329	3,421	1,790	99	1	*	674,279	658,485	12,952	2,842
Dover City of																
1986	283	1,036	3.61	3.07	3.14	86.8	-	4,321	294	-	94	6	11,164	-	10,274	890
1987	1,452	1,032	2.81	2.69	2.70	92.1	-	2,526	1,498	-	63	37	10,803	-	6,886	3,917
1988	485	1,032	-	2.52	2.52	100.0	-	4,894	500	-	91	9	12,387	-	11,164	1,223
1989	377	1,032	-	2.88	2.88	100.0	-	4,896	390	-	93	7	13,685	-	12,596	1,089
1990	1,063	1,033	2.78	3.49	2.88	13.1	-	3,121	1,098	-	74	26	11,916	-	8,861	3,056
Duke Power Co																
1986	43	1,036	3.67	-	3.67	-	244,973	582	45	100	*	*	452,854	450,639	2,056	158
1987	63	1,028	3.08	-	3.08	-	214,355	766	65	100	*	*	386,565	383,402	2,970	194
1988	33	1,030	3.64	-	3.64	-	211,974	682	34	100	*	*	379,100	376,558	2,422	120
1989	-	-	-	-	-	-	239,096	617	-	100	*	-	427,043	424,494	2,549	-
1990	-	-	-	-	-	-	257,144	676	-	100	*	-	455,025	451,444	3,581	-
Duquesne Light Co																
1986	159	1,036	3.09	-	3.09	-	54,000	384	165	99	1	*	95,131	92,872	1,767	491
1987	195	1,040	3.03	-	3.03	-	57,980	269	203	99	*	*	92,208	90,403	1,215	591
1988	340	1,040	3.29	-	3.29	-	50,464	196	354	99	*	1	73,493	71,616	759	1,118
1989	189	1,040	3.32	-	3.32	-	61,635	109	197	100	*	*	76,846	75,734	484	628
1990	155	1,040	2.97	-	2.97	-	55,299	121	161	99	*	*	80,326	79,210	656	460
East Kentucky Power Coop																
1986	-	-	-	-	-	-	71,509	56	-	100	*	-	81,744	81,539	205	-
1987	-	-	-	-	-	-	76,147	53	-	100	*	-	84,280	84,056	224	-
1988	-	-	-	-	-	-	69,698	56	-	100	*	-	76,722	76,518	203	-
1989	-	-	-	-	-	-	57,221	77	-	100	*	-	64,681	64,368	313	-
1990	-	-	-	-	-	-	69,390	34	-	100	*	-	82,922	82,738	185	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Eastern Iowa Light&Power Coop																		
1986	124	61.3	11,464	10.3	2.6	29.73	22.45	26.92	-	-	-	-	-	-	-	-	-	-
El Paso Electric Co																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electric Energy Inc																		
1986	2,306	100.0	11,682	9.1	2.0	41.18	43.13	41.18	-	-	-	-	-	-	-	7	138,612	23.23
1987	2,022	73.9	11,759	8.0	1.9	41.22	28.86	38.00	-	-	-	-	-	-	-	8	138,990	25.59
1988	2,149	73.0	11,796	8.3	2.1	33.49	28.01	32.01	-	-	-	-	-	-	-	6	139,327	27.50
1989	2,433	60.1	11,468	8.5	1.9	35.09	25.27	31.17	-	-	-	-	-	-	-	5	138,710	25.72
1990	3,477	40.8	11,557	8.7	2.0	26.56	27.52	27.13	-	-	-	-	-	-	-	12	138,593	33.96
Empire District Electric Co																		
1986	832	52.9	11,203	18.0	4.6	25.38	31.30	28.17	-	-	-	-	-	-	-	13	143,066	15.58
1987	849	53.3	11,187	18.6	4.5	24.04	32.70	28.08	-	-	-	-	-	-	-	3	143,034	23.18
1988	821	79.1	10,371	18.1	4.0	21.68	32.13	23.86	-	-	-	-	-	-	-	24	142,500	22.33
1989	1,147	84.6	9,908	17.5	3.7	20.00	27.96	21.22	-	-	-	-	-	-	-	8	143,034	31.04
1990	908	56.8	10,196	7.7	1.4	18.31	28.08	22.53	-	-	-	-	-	-	-	3	141,862	30.30
Florida Power & Light Co																		
1986	-	-	-	-	-	-	-	-	25,378	67.3	151,078	0.9	13.53	14.48	13.84	50	138,600	14.37
1987	-	-	-	-	-	-	-	-	20,945	61.5	159,417	.9	20.69	18.32	19.78	-	-	-
1988	-	-	-	-	-	-	-	-	25,728	59.3	151,495	1.0	14.58	14.04	14.36	-	-	-
1989	-	-	-	-	-	-	-	-	25,387	62.0	151,099	1.0	17.47	17.60	17.52	10	138,100	24.37
1990	-	-	-	-	-	-	-	-	29,722	49.3	151,140	1.1	20.07	18.97	19.51	60	139,178	25.19
Florida Power Corp																		
1986	5,660	77.1	12,623	8.8	.8	48.84	43.37	47.59	9,334	100.0	150,764	1.4	13.70	-	13.70	176	138,755	21.57
1987	5,830	71.7	12,631	8.8	.8	48.28	41.43	46.34	8,610	100.0	151,053	1.4	17.62	-	17.62	219	139,810	23.47
1988	5,832	81.1	12,696	8.6	.8	47.91	42.10	46.81	7,279	100.0	151,209	1.5	13.37	-	13.37	234	140,178	20.85
1989	5,664	84.5	12,628	8.7	.8	44.71	39.92	43.97	11,308	100.0	151,252	1.5	16.49	-	16.49	236	140,228	23.98
1990	5,542	94.9	12,684	8.4	.8	44.88	46.16	44.94	9,633	100.0	151,226	1.5	18.75	-	18.75	190	140,363	29.98
Fort Pierre City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	138,441	22.64
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	138,441	24.59
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	141,552	19.01
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	1	100.0	147,913	.7	33.72	-	33.72	-	-	-
Fremont City of																		
1986	121	84.0	11,792	7.2	.6	44.51	31.61	42.44	-	-	-	-	-	-	-	-	-	-
1987	119	65.5	10,773	7.5	.5	42.50	14.41	32.82	-	-	-	-	-	-	-	-	-	-
1988	127	62.3	10,918	7.1	.5	44.18	14.23	32.89	-	-	-	-	-	-	-	-	-	-
1989	121	65.7	11,104	6.9	.5	44.80	14.91	34.54	-	-	-	-	-	-	-	-	-	-
1990	191	34.5	8,624	5.3	.4	13.85	14.39	14.21	-	-	-	-	-	-	-	-	-	-
Gainesville Regional Utilities																		
1986	510	-	13,238	6.1	.8	-	45.65	45.65	8	-	156,393	.3	-	17.77	17.77	1	140,909	28.30
1987	446	-	13,390	6.8	.8	-	45.05	45.05	7	-	150,458	1.4	-	20.05	20.05	-	-	-
1988	598	34.9	13,394	6.3	.7	45.03	46.02	45.67	1	-	148,731	1.6	-	17.02	17.02	-	-	-
1989	516	83.1	13,067	6.0	.7	44.94	48.29	45.50	12	-	151,433	1.4	-	20.04	20.04	-	-	-
1990	587	95.5	13,097	6.5	.7	47.03	50.18	47.17	53	-	151,324	1.3	-	25.62	25.62	-	-	-
Garland City of																		
1986	-	-	-	-	-	-	-	-	[2] 10	100.0	149,953	.0	28.34	-	28.34	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	[2] 7	-	142,686	.0	-	27.57	27.57	-	-	-
1990	-	-	-	-	-	-	-	-	[2] 0	-	142,000	.0	-	27.44	27.44	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Eastern Iowa Light&Power Coop																
1986	10	1,026	3.67	4.05	3.78	28.1	2,850	-	10	100	-	*	3,383	3,346	-	37
El Paso Electric Co																
1986	9,345	1,031	2.17	2.31	2.29	87.3	-	-	9,634	-	-	100	21,430	-	-	21,430
1987	10,680	1,029	-	2.05	2.05	100.0	-	-	10,990	-	-	100	21,886	-	-	21,886
1988	14,437	1,027	1.95	2.10	2.05	65.0	-	-	14,827	-	-	100	29,602	-	-	29,602
1989	20,038	1,029	2.03	1.96	2.00	47.5	-	-	20,612	-	-	100	40,008	-	-	40,008
1990	15,172	1,028	2.04	2.04	2.04	41.7	-	-	15,603	-	-	100	30,974	-	-	30,974
Electric Energy Inc																
1986	-	-	-	-	-	-	53,887	43	-	100	*	-	95,149	94,977	172	-
1987	-	-	-	-	-	-	47,555	46	-	100	*	-	77,035	76,833	202	-
1988	-	-	-	-	-	-	50,711	35	-	100	*	-	68,963	68,800	162	-
1989	-	-	-	-	-	-	55,806	30	-	100	*	-	75,985	75,854	131	-
1990	-	-	-	-	-	-	80,377	68	-	100	*	-	94,726	94,332	394	-
Empire District Electric Co																
1986	177	1,017	2.45	-	2.45	-	18,652	80	180	99	*	1	24,090	23,450	207	433
1987	174	1,012	3.00	-	3.00	-	18,995	18	176	99	*	1	24,433	23,842	71	521
1988	60	1,023	3.53	-	3.53	-	17,021	145	62	99	1	*	20,337	19,581	542	213
1989	51	1,007	3.14	-	3.14	-	22,733	50	51	100	*	*	24,765	24,346	259	160
1990	224	1,028	2.24	-	2.24	-	18,509	18	231	99	*	1	21,043	20,448	93	502
Florida Power & Light Co																
1986	98,520	1,000	-	2.01	2.01	100.0	-	161,321	98,520	-	62	38	549,631	-	351,946	197,685
1987	111,593	1,000	-	2.70	2.70	100.0	-	140,238	111,593	-	56	44	716,017	-	414,288	301,729
1988	95,322	1,000	-	2.05	2.05	100.0	-	163,700	95,322	-	63	37	564,541	-	369,468	195,073
1989	106,279	1,000	2.39	2.47	2.43	49.3	-	161,168	106,279	-	60	40	703,635	-	445,036	258,599
1990	107,997	1,000	2.37	3.14	2.65	36.9	-	189,024	107,997	-	64	36	867,783	-	581,505	286,278
Florida Power Corp																
1986	1,479	1,022	2.82	-	2.82	-	142,894	60,131	1,511	70	29	1	405,156	269,351	131,629	4,175
1987	2,670	1,024	3.10	3.32	3.10	*	147,279	55,913	2,735	72	27	1	435,283	270,154	156,856	8,272
1988	2,483	1,023	2.19	-	2.19	-	148,073	47,609	2,541	75	24	1	380,604	272,987	102,187	5,431
1989	5,379	1,021	2.34	-	2.34	-	143,049	73,225	5,494	65	33	2	453,692	249,023	192,100	12,569
1990	3,644	1,025	2.19	-	2.19	-	140,588	62,303	3,734	68	30	2	443,350	249,074	186,286	7,990
Fort Pierre City of																
1986	914	1,022	2.19	-	2.19	-	-	3	935	-	*	100	2,012	-	14	1,999
1987	801	1,023	2.79	-	2.79	-	-	3	819	-	*	100	2,248	-	12	2,236
1988	1,313	1,024	2.41	-	2.41	-	-	48	1,344	-	3	97	3,319	-	152	3,167
1989	1,388	1,026	2.59	-	2.59	-	-	-	1,424	-	-	100	3,602	-	-	3,602
1990	875	1,030	2.46	-	2.46	-	-	4	901	-	*	100	2,169	-	21	2,148
Fremont City of																
1986	154	998	-	2.35	2.35	100.0	2,854	-	154	95	-	5	5,498	5,135	-	362
1987	160	998	-	1.85	1.85	100.0	2,562	-	160	94	-	6	4,198	3,902	-	297
1988	121	998	-	1.85	1.85	100.0	2,769	-	121	96	-	4	4,394	4,170	-	224
1989	192	998	-	1.90	1.90	100.0	2,696	-	191	93	-	7	4,557	4,193	-	365
1990	89	998	-	1.94	1.94	100.0	3,287	-	89	97	-	3	2,881	2,708	-	173
Gainesville Regional Utilities																
1986	3,505	1,022	2.26	-	2.26	-	13,494	63	3,580	79	*	21	31,376	23,265	190	7,921
1987	2,621	1,025	2.87	-	2.87	-	11,939	42	2,687	81	*	18	27,725	20,083	132	7,510
1988	2,567	1,024	2.42	-	2.42	-	16,033	9	2,629	86	*	14	33,574	27,334	24	6,216
1989	3,517	1,027	2.64	-	2.64	-	13,493	74	3,613	79	*	21	33,003	23,494	232	9,277
1990	5,061	1,031	2.34	-	2.34	-	15,365	335	5,215	73	2	25	40,852	27,671	1,350	11,831
Garland City of																
1986	7,281	1,041	1.78	-	1.78	-	-	61	7,583	-	1	99	13,237	-	275	12,962
1987	6,283	1,039	1.69	-	1.69	-	-	-	6,528	-	-	100	10,612	-	-	10,612
1988	6,411	1,028	1.81	-	1.81	-	-	-	6,593	-	-	100	11,579	-	-	11,579
1989	9,075	1,034	1.86	-	1.86	-	-	42	9,381	-	*	100	17,036	-	193	16,843
1990	8,431	1,035	1.80	-	1.80	-	-	2	8,726	-	*	100	15,211	-	8	15,203

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Georgia Power Co																		
1986	26,471	92.6	12,120	9.8	1.8	44.63	35.57	43.96	177	-	149,075	0.3	-	10.94	10.94	166	138,000	20.01
1987	25,574	82.6	12,149	10.0	1.8	45.22	35.81	43.58	76	-	147,000	2.8	-	18.91	18.91	181	138,000	22.61
1988	24,265	88.2	12,145	10.2	1.7	43.58	34.21	42.48	105	-	149,000	.2	-	13.61	13.61	197	138,000	19.62
1989	24,473	77.8	12,078	10.2	1.7	44.73	36.47	42.90	17	-	147,000	2.6	-	17.15	17.15	195	138,000	26.21
1990	27,098	70.9	11,870	9.8	1.6	45.56	34.95	42.47	9	100.0	147,000	2.6	13.66	-	13.66	249	138,000	31.48
Glendale City of																		
1986	-	-	-	-	-	-	-	-	58	-	148,511	.2	-	16.17	16.17	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grand Haven City of																		
1986	105	48.1	11,103	10.4	2.7	39.19	33.75	36.37	-	-	-	-	-	-	-	-	-	-
1987	183	54.7	10,965	10.5	2.6	38.89	29.00	34.41	-	-	-	-	-	-	-	-	-	-
1988	160	46.3	10,902	10.5	2.5	39.69	30.76	34.89	-	-	-	-	-	-	-	-	-	-
1989	187	46.6	11,068	10.0	2.5	35.68	31.92	33.67	-	-	-	-	-	-	-	-	-	-
1990	199	44.2	11,111	10.7	2.8	36.29	32.54	34.20	-	-	-	-	-	-	-	-	-	-
Grand Island City of																		
1986	208	100.0	8,116	5.7	.4	29.72	-	29.72	-	-	-	-	-	-	-	1	140,476	22.16
1987	225	100.0	8,088	6.1	.4	28.87	-	28.87	-	-	-	-	-	-	-	1	140,000	23.31
1988	247	14.6	8,438	5.1	.3	26.13	11.31	13.47	-	-	-	-	-	-	-	1	140,000	20.90
1989	304	-	8,430	5.2	.3	-	11.40	11.40	-	-	-	-	-	-	-	-	-	-
1990	283	15.4	8,397	5.9	.4	11.16	11.55	11.49	-	-	-	-	-	-	-	-	-	-
Grand River Dam Authority																		
1986	2,583	98.1	8,400	5.1	.4	22.98	30.19	23.12	-	-	-	-	-	-	-	45	137,828	19.29
1987	2,151	100.0	8,464	5.5	.5	24.17	-	24.17	-	-	-	-	-	-	-	34	137,265	22.47
1988	2,799	99.0	8,513	5.3	.5	17.25	30.31	17.38	-	-	-	-	-	-	-	37	137,607	19.74
1989	3,870	87.4	8,487	5.1	.5	16.52	15.47	16.39	-	-	-	-	-	-	-	27	137,890	24.47
1990	3,465	87.9	8,631	5.0	.5	17.62	16.62	17.50	-	-	-	-	-	-	-	*	137,767	23.25
Greenville City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	138,000	30.33
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gulf Power Co																		
1986	3,092	79.3	12,012	10.5	2.1	52.10	33.16	48.19	-	-	-	-	-	-	-	16	137,000	20.48
1987	3,240	46.4	12,247	9.7	2.8	53.29	30.62	41.14	-	-	-	-	-	-	-	15	137,000	22.47
1988	3,755	50.2	12,275	9.1	2.8	48.02	30.73	39.41	-	-	-	-	-	-	-	22	137,000	19.99
1989	2,746	66.1	12,128	9.0	2.8	48.97	32.86	43.51	-	-	-	-	-	-	-	25	137,000	22.14
1990	3,013	64.0	12,054	8.4	2.8	51.74	34.96	45.70	-	-	-	-	-	-	-	21	137,000	30.25
Gulf States Utilities Co																		
1986	2,303	100.0	8,586	6.5	.5	32.97	-	32.97	139	-	149,290	.5	-	9.49	9.49	1	141,446	21.92
1987	2,181	100.0	8,573	6.6	.5	32.88	-	32.88	99	-	150,575	.6	-	17.49	17.49	17	140,299	20.54
1988	2,048	100.0	8,658	6.3	.5	34.87	-	34.87	207	-	149,896	.4	-	13.15	13.15	27	139,245	19.14
1989	1,951	100.0	8,723	5.9	.5	33.80	-	33.80	206	-	160,420	.5	-	18.02	18.02	19	138,861	23.51
1990	2,059	100.0	8,805	5.9	.5	33.91	-	33.91	122	-	148,748	.2	-	14.89	14.89	24	139,830	26.07
Hamilton City of																		
1986	113	100.0	12,441	9.0	.7	37.19	-	37.19	-	-	-	-	-	-	-	1	137,000	20.12
1987	99	100.0	12,441	9.0	.6	35.19	-	35.19	-	-	-	-	-	-	-	1	137,000	23.22
1988	113	100.0	12,527	8.5	.7	34.80	-	34.80	-	-	-	-	-	-	-	1	137,000	21.40
1989	118	100.0	12,361	9.5	.7	34.65	-	34.65	-	-	-	-	-	-	-	1	137,000	22.09
1990	96	100.0	12,351	10.1	.7	38.90	-	38.90	-	-	-	-	-	-	-	1	137,000	36.45

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Georgia Power Co																
1986	5,106	1,024	1.63	3.78	1.77	6.1	641,662	2,075	5,230	99	*	1	1,177,928	1,163,644	5,272	9,013
1987	308	1,024	-	3.54	3.54	100.0	621,408	1,517	316	100	*	*	1,121,259	1,114,643	5,524	1,093
1988	147	1,027	-	3.50	3.50	100.0	589,376	1,805	151	100	*	*	1,036,516	1,030,689	5,311	515
1989	222	1,027	-	3.25	3.25	100.0	591,165	1,234	228	100	*	*	1,056,043	1,049,919	5,402	723
1990	592	1,026	3.36	2.92	2.93	97.1	643,321	1,495	608	100	*	*	1,160,440	1,150,755	7,950	1,735
Glendale City of																
1986	1,639	1,060	2.65	-	2.65	-	-	364	1,737	-	17	83	5,289	-	944	4,346
1987	2,205	1,043	2.56	-	2.56	-	-	-	2,300	-	-	100	5,638	-	-	5,638
1988	1,962	1,044	2.65	-	2.65	-	-	-	2,047	-	-	100	5,198	-	-	5,198
1989	2,606	1,049	2.46	-	2.46	-	-	-	2,733	-	-	100	6,420	-	-	6,420
1990	1,921	1,040	2.50	-	2.50	-	-	-	1,999	-	-	100	4,800	-	-	4,800
Grand Haven City of																
1986	-	-	-	-	-	-	2,323	-	-	100	-	-	3,804	3,804	-	-
1987	-	-	-	-	-	-	4,007	-	-	100	-	-	6,286	6,286	-	-
1988	-	-	-	-	-	-	3,486	-	-	100	-	-	5,579	5,579	-	-
1989	-	-	-	-	-	-	4,144	-	-	100	-	-	6,303	6,303	-	-
1990	-	-	-	-	-	-	4,416	-	-	100	-	-	6,795	6,795	-	-
Grand Island City of																
1986	10	940	3.27	-	3.27	-	3,378	7	10	100	*	*	6,244	6,184	26	34
1987	38	940	3.18	-	3.18	-	3,635	4	36	99	*	1	6,622	6,487	15	121
1988	51	940	3.15	-	3.15	-	4,173	7	48	99	*	1	3,516	3,330	25	160
1989	52	940	2.26	-	2.26	-	5,133	-	49	99	-	1	3,588	3,470	-	118
1990	387	940	1.64	-	1.64	-	4,751	-	364	93	-	7	3,885	3,250	-	635
Grand River Dam Authority																
1986	30	1,025	5.76	-	5.76	-	43,398	260	31	99	1	*	60,755	59,718	866	171
1987	22	1,020	7.27	-	7.27	-	36,404	196	22	99	1	*	52,893	51,968	765	160
1988	14	1,017	4.49	-	4.49	-	47,650	214	14	100	*	*	49,440	48,647	730	63
1989	55	1,012	2.33	-	2.33	-	65,684	156	56	100	*	*	64,200	63,412	659	129
1990	203	1,006	2.01	-	2.01	-	59,809	2	205	100	*	*	61,051	60,635	8	408
Greenville City of																
1986	895	1,078	1.80	-	1.80	-	-	-	965	-	-	100	1,608	-	-	1,608
1987	1,625	1,072	1.78	-	1.78	-	-	-	1,741	-	-	100	2,888	-	-	2,888
1988	1,739	1,072	2.05	-	2.05	-	-	-	1,864	-	-	100	3,557	-	-	3,557
1989	1,683	1,073	1.96	-	1.96	-	-	46	1,805	-	2	98	3,540	-	239	3,301
1990	1,645	1,067	1.93	-	1.93	-	-	-	1,755	-	-	100	3,169	-	-	3,169
Gulf Power Co																
1986	944	1,000	3.37	.97	2.71	27.7	74,293	91	944	99	*	1	151,892	149,013	326	2,554
1987	834	1,000	1.76	.74	1.61	14.8	79,356	89	834	99	*	1	134,975	133,286	348	1,341
1988	738	1,000	1.77	.52	1.38	31.3	92,185	128	738	99	*	1	149,448	147,985	444	1,018
1989	391	1,000	2.82	.73	2.17	31.2	66,599	147	391	99	*	1	120,877	119,466	565	847
1990	959	1,000	1.66	1.66	1.66	3.2	72,630	120	959	99	*	1	139,913	137,687	632	1,593
Gulf States Utilities Co																
1986	163,475	1,047	1.72	2.00	1.96	85.8	39,548	874	171,238	19	*	81	397,203	75,921	1,329	319,953
1987	157,651	1,042	1.73	1.79	1.78	84.7	37,397	726	164,321	18	*	81	355,091	71,714	2,078	281,298
1988	155,251	1,041	1.81	1.90	1.89	84.2	35,464	1,461	161,605	18	1	81	367,573	71,407	3,238	292,928
1989	162,239	1,039	1.76	1.97	1.95	86.7	34,038	1,503	168,557	17	1	83	385,810	65,943	4,174	315,694
1990	176,065	1,041	1.76	1.97	1.93	82.4	36,257	898	183,209	16	*	83	412,380	69,825	2,424	340,131
Hamilton City of																
1986	20	1,000	-	4.41	4.41	100.0	2,805	4	20	99	*	1	4,296	4,192	14	89
1987	283	1,000	-	2.10	2.10	100.0	2,457	4	283	90	*	10	4,086	3,475	16	595
1988	189	1,000	-	2.78	2.78	100.0	2,821	5	189	94	*	6	4,463	3,918	19	525
1989	378	1,000	-	2.65	2.65	100.0	2,929	5	378	88	*	11	5,129	4,106	20	1,004
1990	622	1,000	-	1.97	1.97	100.0	2,375	5	622	79	*	21	4,997	3,740	33	1,224

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Hastings City of																		
1986	134	100.0	8,159	5.8	0.4	29.40	-	29.40	-	-	-	-	-	-	-	-	-	-
1987	163	100.0	8,070	6.3	.4	28.75	-	28.75	-	-	-	-	-	-	-	-	-	-
1988	199	-	8,681	5.2	.3	-	15.66	15.66	-	-	-	-	-	-	-	-	-	-
1989	231	33.1	8,779	4.5	.2	19.29	12.97	15.06	-	-	-	-	-	-	-	-	-	-
1990	187	100.0	8,682	4.9	.3	18.00	-	18.00	-	-	-	-	-	-	-	-	-	-
Hawaiian Electric Co Inc																		
1986	-	-	-	-	-	-	-	-	9,387	94.8	149,059	0.4	18.08	15.00	17.92	28	136,817	26.94
1987	-	-	-	-	-	-	-	-	10,323	99.0	149,301	.4	21.58	20.67	21.57	51	139,407	27.14
1988	-	-	-	-	-	-	-	-	9,993	100.0	149,171	.5	17.96	-	17.96	7	137,744	22.09
1989	-	-	-	-	-	-	-	-	10,292	100.0	148,723	.5	20.55	-	20.55	14	137,887	20.90
1990	-	-	-	-	-	-	-	-	10,559	100.0	148,883	.5	25.96	-	25.96	1	138,952	33.77
Henderson City of																		
1986	121	100.0	11,243	10.3	2.4	34.02	-	34.02	-	-	-	-	-	-	-	-	-	-
Holland City of																		
1986	183	-	13,161	6.9	.9	-	46.59	46.59	-	-	-	-	-	-	-	-	-	-
1987	148	-	13,067	7.4	.8	-	41.66	41.66	-	-	-	-	-	-	-	-	-	-
1988	126	89.9	13,293	6.4	.8	42.27	42.32	42.27	-	-	-	-	-	-	-	-	-	-
1989	163	100.0	13,270	6.3	.8	44.85	-	44.85	-	-	-	-	-	-	-	-	-	-
1990	185	100.0	13,251	6.0	.8	45.82	-	45.82	-	-	-	-	-	-	-	-	-	-
Holyoke Water Power Co																		
1986	374	-	13,085	7.5	1.3	-	50.66	50.66	-	-	-	-	-	-	-	4	137,731	17.98
1987	392	-	13,250	7.5	1.4	-	45.86	45.86	-	-	-	-	-	-	-	3	138,106	23.06
1988	415	-	13,194	7.3	1.3	-	45.58	45.58	-	-	-	-	-	-	-	2	138,208	20.17
1989	418	-	13,049	6.6	1.3	-	44.99	44.99	-	-	-	-	-	-	-	2	138,058	23.42
1990	405	-	13,055	6.5	1.4	-	46.26	46.26	-	-	-	-	-	-	-	3	138,686	35.14
Hoosier Energy R E C Inc																		
1986	2,357	90.4	10,893	9.8	3.2	36.65	21.51	35.19	-	-	-	-	-	-	-	28	138,253	19.59
1987	2,611	74.1	10,942	10.4	3.4	36.47	19.03	31.95	-	-	-	-	-	-	-	15	135,682	22.99
1988	2,371	64.7	11,058	11.3	3.4	28.54	18.76	25.09	-	-	-	-	-	-	-	19	136,331	21.01
1989	3,228	57.5	10,984	11.5	3.4	28.74	17.62	24.01	-	-	-	-	-	-	-	20	137,129	23.33
1990	2,751	95.8	11,038	11.6	3.7	27.26	22.19	27.05	-	-	-	-	-	-	-	18	137,467	29.68
Houston Lighting & Power Co																		
1986	12,845	100.0	7,868	9.4	.7	36.45	-	36.45	165	-	149,163	.1	-	9.74	9.74	-	-	-
1987	15,901	100.0	7,521	11.4	.7	32.06	-	32.06	-	-	-	-	-	-	-	-	-	-
1988	15,470	84.6	7,480	11.7	.7	30.68	30.07	30.59	[2] 0	-	144,524	.0	-	18.30	18.30	1	139,762	24.66
1989	17,434	68.8	7,470	11.4	.7	29.31	30.56	29.70	[2] 267	-	145,028	.4	-	19.48	19.48	93	139,049	23.00
1990	16,453	100.0	7,619	10.3	.6	30.56	-	30.56	[2] 138	98.3	145,075	.6	19.51	19.48	19.51	60	140,061	37.34
Illinois Power Co																		
1986	[1] 7,670	87.2	11,106	10.0	2.4	32.30	31.70	32.22	125	100.0	150,000	.9	12.28	-	12.28	59	138,000	20.70
1987	7,611	83.8	11,159	9.8	2.4	32.10	32.07	32.09	97	100.0	150,381	.7	19.64	-	19.64	50	138,000	23.78
1988	6,321	94.4	11,148	9.7	2.4	32.79	35.39	32.94	125	100.0	154,150	.9	16.92	-	16.92	40	138,000	21.85
1989	6,239	94.7	11,169	9.6	2.5	32.64	35.16	32.78	194	-	151,613	.9	-	19.59	19.59	52	138,000	25.29
1990	6,304	92.6	11,148	9.8	2.5	33.11	36.70	33.38	193	-	150,000	.9	-	16.81	16.81	61	138,000	32.81
Imperial Irrigation District																		
1986	-	-	-	-	-	-	-	-	115	-	149,500	1.2	-	15.32	15.32	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	223	-	149,500	1.2	-	18.11	18.11	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	133	-	149,500	1.2	-	16.45	16.45	-	-	-
Independence City of																		
1986	145	-	12,119	11.0	3.6	-	39.13	39.13	-	-	-	-	-	-	-	2	137,674	34.72
1987	163	55.9	11,964	12.1	3.4	39.33	39.15	39.25	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	17	100.0	12,356	11.3	3.5	39.51	-	39.51	-	-	-	-	-	-	-	3	137,380	39.25
1990	30	100.0	12,153	11.8	3.2	38.42	-	38.42	-	-	-	-	-	-	-	2	137,380	34.88

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Hastings City of																
1986	-	-	-	-	-	-	2,192	-	-	100	-	-	3,948	3,948	-	-
1987	-	-	-	-	-	-	2,636	-	-	100	-	-	4,695	4,695	-	-
1988	-	-	-	-	-	-	3,451	-	-	100	-	-	3,114	3,114	-	-
1989	-	-	-	-	-	-	4,052	-	-	100	-	-	3,477	3,477	-	-
1990	-	-	-	-	-	-	3,254	-	-	100	-	-	3,373	3,373	-	-
Hawaiian Electric Co Inc																
1986	-	-	-	-	-	-	-	58,931	-	-	100	-	168,957	-	168,957	-
1987	-	-	-	-	-	-	-	65,031	-	-	100	-	224,100	-	224,100	-
1988	-	-	-	-	-	-	-	62,646	-	-	100	-	179,626	-	179,626	-
1989	-	-	-	-	-	-	-	64,367	-	-	100	-	211,804	-	211,804	-
1990	-	-	-	-	-	-	-	66,034	-	-	100	-	274,197	-	274,197	-
Henderson City of																
1986	-	-	-	-	-	-	2,721	-	-	100	-	-	4,117	4,117	-	-
Holland City of																
1986	-	-	-	-	-	-	4,828	-	-	100	-	-	8,546	8,546	-	-
1987	-	-	-	-	-	-	3,875	-	-	100	-	-	6,177	6,177	-	-
1988	-	-	-	-	-	-	3,340	-	-	100	-	-	5,311	5,311	-	-
1989	-	-	-	-	-	-	4,321	-	-	100	-	-	7,303	7,303	-	-
1990	849	1,031	-	1.84	1.84	100.0	4,902	-	875	85	-	15	10,041	8,475	-	1,566
Holyoke Water Power Co																
1986	-	-	-	-	-	-	9,780	23	-	100	*	-	19,000	18,930	70	-
1987	-	-	-	-	-	-	10,391	20	-	100	*	-	18,061	17,983	78	-
1988	-	-	-	-	-	-	10,954	14	-	100	*	-	18,967	18,918	48	-
1989	-	-	-	-	-	-	10,902	14	-	100	*	-	18,848	18,792	56	-
1990	-	-	-	-	-	-	10,584	17	-	100	*	-	18,853	18,752	102	-
Hoosier Energy R E C Inc																
1986	-	-	-	-	-	-	51,358	163	-	100	*	-	83,515	82,965	550	-
1987	-	-	-	-	-	-	57,143	87	-	100	*	-	83,781	83,430	351	-
1988	-	-	-	-	-	-	52,427	112	-	100	*	-	59,878	59,468	409	-
1989	-	-	-	-	-	-	70,914	115	-	100	*	-	77,979	77,515	464	-
1990	-	-	-	-	-	-	60,742	103	-	100	*	-	74,959	74,428	531	-
Houston Lighting & Power Co																
1986	243,180	1,037	1.70	1.87	1.83	79.2	202,135	1,036	252,065	44	*	55	915,805	468,144	1,611	446,050
1987	248,259	1,036	1.59	1.75	1.72	78.5	239,190	-	257,247	48	-	52	935,862	509,734	-	426,128
1988	231,479	1,033	1.81	1.82	1.82	83.0	231,425	8	239,182	49	*	51	894,001	473,221	35	420,745
1989	222,016	1,033	1.82	1.84	1.84	83.5	260,464	2,165	229,450	53	*	47	932,633	517,766	7,327	407,541
1990	235,168	1,036	1.76	1.77	1.77	89.7	250,706	1,190	243,554	51	*	49	924,260	502,754	4,911	416,595
Illinois Power Co																
1986	417	1,040	3.36	2.84	3.29	13.1	170,363	1,127	434	99	1	*	251,249	247,124	2,751	1,374
1987	517	1,030	2.58	2.55	2.58	12.8	169,876	904	533	99	1	*	248,708	244,272	3,101	1,334
1988	779	1,019	2.79	2.78	2.79	11.1	140,947	1,042	794	99	1	1	213,398	208,232	2,995	2,171
1989	949	1,018	2.47	2.67	2.49	13.8	139,367	1,534	966	98	1	1	211,953	204,484	5,104	2,365
1990	1,568	1,013	2.11	2.50	2.16	10.9	140,548	1,571	1,589	98	1	1	219,036	210,407	5,248	3,381
Imperial Irrigation District																
1986	3,885	1,029	2.43	-	2.43	-	-	725	3,997	-	15	85	11,211	-	1,770	9,441
1987	4,677	1,028	2.72	-	2.72	-	-	-	4,810	-	-	100	12,702	-	-	12,702
1988	4,774	1,025	3.05	-	3.05	-	-	1,401	4,894	-	22	78	18,620	-	4,041	14,578
1989	4,907	1,030	3.08	-	3.08	-	-	-	5,053	-	-	100	15,130	-	-	15,130
1990	4,547	1,026	3.06	-	3.06	-	-	838	4,667	-	15	85	16,123	-	2,195	13,929
Independence City of																
1986	116	964	2.53	-	2.53	-	3,519	13	112	97	*	3	6,052	5,680	76	295
1987	160	973	3.08	-	3.08	-	3,898	-	155	96	-	4	6,887	6,395	-	492
1988	25	980	2.95	-	2.95	-	-	-	24	-	-	100	74	-	-	74
1989	29	991	2.36	-	2.36	-	432	20	29	90	4	6	897	691	137	69
1990	113	1,000	2.07	-	2.07	-	732	13	113	85	2	13	1,471	1,157	80	235

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Indiana Michigan Power Co																		
1986	6,373	94.6	9,437	6.8	1.3	35.76	24.90	35.18	-	-	-	-	-	-	-	100	137,951	21.62
1987	5,437	94.9	9,511	7.0	1.3	29.76	21.75	29.35	-	-	-	-	-	-	-	80	137,446	23.69
1988	5,290	98.4	9,527	6.8	1.2	31.25	49.86	31.55	-	-	-	-	-	-	-	146	137,110	20.60
1989	7,918	82.5	9,389	6.6	1.0	28.61	21.25	27.32	-	-	-	-	-	-	-	200	136,774	23.98
1990	12,832	87.4	9,225	6.0	.7	25.11	21.40	24.64	-	-	-	-	-	-	-	188	137,208	29.06
Indiana-Kentucky Electric Corp																		
1986	3,887	75.9	11,374	10.2	3.3	28.01	22.98	26.80	-	-	-	-	-	-	-	2	137,621	24.48
1987	4,812	59.1	11,539	10.3	3.3	25.75	22.81	24.55	-	-	-	-	-	-	-	3	137,621	25.91
1988	3,932	74.6	11,544	10.7	3.3	26.19	22.55	25.27	-	-	-	-	-	-	-	3	137,621	24.19
1989	3,833	71.0	11,521	11.0	3.4	24.41	20.33	23.22	-	-	-	-	-	-	-	4	137,621	27.99
1990	4,402	75.3	11,372	11.0	3.4	24.08	22.26	23.63	-	-	-	-	-	-	-	5	137,643	35.55
Indianapolis Power & Light Co																		
1986	5,633	96.1	11,200	8.1	2.5	28.82	25.36	28.69	-	-	-	-	-	-	-	40	136,793	24.26
1987	5,908	90.0	11,257	7.8	2.0	27.74	21.84	27.15	-	-	-	-	-	-	-	-	-	-
1988	5,281	92.3	11,181	8.1	2.1	24.76	19.77	24.38	-	-	-	-	-	-	-	-	-	-
1989	5,425	91.4	11,194	8.0	2.2	24.70	18.50	24.16	-	-	-	-	-	-	-	-	-	-
1990	5,973	93.6	11,218	7.9	2.3	24.53	19.13	24.18	-	-	-	-	-	-	-	-	-	-
Interstate Power Co																		
1986	1,400	89.3	9,796	7.3	1.7	37.41	28.60	36.46	-	-	-	-	-	-	-	10	140,000	23.46
1987	1,566	87.7	9,668	7.2	1.6	35.81	25.66	34.56	-	-	-	-	-	-	-	6	140,000	24.37
1988	1,380	75.5	9,494	6.8	1.3	36.66	24.65	33.73	-	-	-	-	-	-	-	6	140,000	20.68
1989	1,456	67.6	9,745	7.1	1.6	37.70	23.57	33.13	-	-	-	-	-	-	-	8	140,000	24.75
1990	1,425	95.8	9,719	6.9	1.3	35.32	36.00	35.35	-	-	-	-	-	-	-	9	140,000	29.10
Iowa Electric Light & Power Co																		
1986	704	97.7	11,308	8.1	2.2	32.01	28.99	31.94	-	-	-	-	-	-	-	14	138,536	19.68
1987	840	97.4	11,357	7.8	2.2	30.04	26.94	29.95	-	-	-	-	-	-	-	15	138,533	24.01
1988	795	81.8	11,519	8.1	2.2	31.92	32.00	31.94	-	-	-	-	-	-	-	17	138,500	23.86
1989	487	15.4	11,030	9.3	2.4	31.97	32.53	32.44	-	-	-	-	-	-	-	12	138,500	27.62
1990	691	9.6	10,441	8.0	1.7	33.17	29.52	29.87	-	-	-	-	-	-	-	31	138,500	34.25
Iowa Power & Light Co																		
1986	2,171	95.6	8,444	5.6	.3	19.25	13.52	18.99	-	-	-	-	-	-	-	-	-	-
1987	2,671	79.2	8,334	5.1	.4	18.09	11.48	16.71	-	-	-	-	-	-	-	-	-	-
1988	2,831	76.9	8,424	4.8	.3	18.76	10.77	16.91	-	-	-	-	-	-	-	30	136,000	20.63
1989	2,124	95.8	8,343	4.6	.3	18.47	13.11	18.24	-	-	-	-	-	-	-	5	136,000	25.83
1990	3,193	60.7	8,310	4.6	.3	18.22	13.09	16.20	-	-	-	-	-	-	-	24	136,000	26.97
Iowa Public Service Co																		
1986	1,982	100.0	9,449	6.5	.5	27.75	-	27.75	-	-	-	-	-	-	-	22	138,000	19.23
1987	3,007	100.0	9,346	6.4	.5	22.34	-	22.34	-	-	-	-	-	-	-	30	138,000	22.84
1988	2,968	100.0	9,502	6.3	.5	22.98	50.00	22.98	-	-	-	-	-	-	-	10	138,171	19.77
1989	4,021	62.9	8,635	5.8	.4	19.64	15.63	18.15	-	-	-	-	-	-	-	22	138,000	25.10
1990	[1] 4,923	43.7	8,690	5.9	.4	15.61	13.91	14.65	-	-	-	-	-	-	-	7	138,000	20.87
Iowa Southern Utilities Co																		
1986	2,311	97.5	8,613	6.3	.7	20.38	22.77	20.44	-	-	-	-	-	-	-	8	137,881	22.51
1987	2,651	94.9	8,741	6.3	.7	18.97	21.01	19.07	-	-	-	-	-	-	-	7	137,881	24.28
1988	[1] 2,684	87.1	8,800	6.1	.7	18.99	20.90	19.23	-	-	-	-	-	-	-	7	137,881	22.58
1989	2,822	77.0	8,846	6.1	.8	20.57	17.49	19.86	-	-	-	-	-	-	-	4	137,881	27.33
1990	2,568	77.8	8,727	6.2	.7	19.26	15.60	18.45	-	-	-	-	-	-	-	12	137,881	28.90
Iowa-Illinois Gas&Electric Co																		
1986	2,123	67.6	8,706	6.2	.7	22.74	15.34	20.35	-	-	-	-	-	-	-	-	-	-
1987	2,310	98.5	8,600	5.8	.5	19.38	13.37	19.29	-	-	-	-	-	-	-	-	-	-
1988	2,501	99.6	8,792	5.5	.5	19.64	31.88	19.69	-	-	-	-	-	-	-	-	-	-
1989	2,594	68.2	8,640	5.5	.5	21.55	15.68	19.68	-	-	-	-	-	-	-	-	-	-
1990	2,010	99.4	8,690	6.3	.6	19.62	18.23	19.61	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Indiana Michigan Power Co																
1986	-	-	-	-	-	-	120,288	582	-	100	*	-	226,359	224,189	2,171	-
1987	-	-	-	-	-	-	103,423	462	-	100	*	-	161,474	159,577	1,897	-
1988	-	-	-	-	-	-	100,799	840	-	99	1	-	169,895	166,891	3,004	-
1989	-	-	-	-	-	-	148,680	1,148	-	99	1	-	221,119	216,327	4,792	-
1990	-	-	-	-	-	-	236,745	1,081	-	100	*	-	321,691	316,239	5,452	-
Indiana-Kentucky Electric Corp																
1986	-	-	-	-	-	-	88,423	11	-	100	*	-	104,215	104,168	46	-
1987	-	-	-	-	-	-	111,052	15	-	100	*	-	118,201	118,134	67	-
1988	-	-	-	-	-	-	90,780	20	-	100	*	-	99,442	99,358	84	-
1989	-	-	-	-	-	-	88,316	21	-	100	*	-	89,120	89,019	101	-
1990	-	-	-	-	-	-	100,123	27	-	100	*	-	104,189	104,026	163	-
Indianapolis Power & Light Co																
1986	-	-	-	-	-	-	126,183	232	-	100	*	-	162,579	161,598	981	-
1987	-	-	-	-	-	-	133,008	-	-	100	-	-	160,385	160,385	-	-
1988	-	-	-	-	-	-	118,089	-	-	100	-	-	128,735	128,735	-	-
1989	-	-	-	-	-	-	121,464	-	-	100	-	-	131,089	131,089	-	-
1990	-	-	-	-	-	-	134,015	-	-	100	-	-	144,454	144,454	-	-
Interstate Power Co																
1986	780	1,001	2.63	-	2.63	-	27,427	59	780	97	*	3	53,333	51,046	237	2,050
1987	909	1,000	1.99	-	1.99	-	30,289	35	910	97	*	3	56,098	54,140	144	1,814
1988	2,641	1,005	1.87	-	1.87	-	26,213	34	2,654	91	*	9	51,618	46,560	120	4,938
1989	759	1,005	2.14	-	2.14	-	28,371	48	763	97	*	3	50,047	48,224	200	1,623
1990	839	1,001	1.85	-	1.85	-	27,701	51	840	97	*	3	52,174	50,370	250	1,553
Iowa Electric Light & Power Co																
1986	212	1,000	3.37	-	3.37	-	15,921	81	212	98	1	1	23,476	22,486	275	715
1987	441	1,000	2.57	-	2.57	-	19,080	87	441	97	*	2	26,653	25,161	360	1,132
1988	448	1,000	2.58	-	2.58	-	18,315	99	448	97	1	2	26,952	25,389	406	1,157
1989	954	1,000	2.49	-	2.49	-	10,743	70	954	91	1	8	18,505	15,801	331	2,372
1990	1,119	1,000	3.14	-	3.14	-	14,430	178	1,119	92	1	7	25,207	20,640	1,047	3,519
Iowa Power & Light Co																
1986	92	1,003	3.36	-	3.36	-	36,660	-	92	100	-	*	41,540	41,232	-	308
1987	128	996	2.36	-	2.36	-	44,518	-	128	100	-	*	44,931	44,629	-	302
1988	41	995	3.44	-	3.44	-	47,691	173	41	100	*	*	48,648	47,881	625	141
1989	70	999	3.06	-	3.06	-	35,440	31	70	100	*	*	39,103	38,750	139	213
1990	70	999	2.78	-	2.78	-	53,069	135	70	100	*	*	52,573	51,741	636	195
Iowa Public Service Co																
1986	71	1,000	2.82	3.61	2.86	5.2	37,453	128	71	99	*	*	55,626	54,997	424	204
1987	1,276	1,000	1.61	-	1.61	-	56,212	176	1,276	97	*	2	69,928	67,183	692	2,054
1988	1,329	1,000	1.62	-	1.62	-	56,401	60	1,329	98	*	2	70,563	68,209	204	2,151
1989	357	1,000	2.32	-	2.32	-	69,446	129	357	99	*	1	74,370	72,981	560	829
1990	462	1,000	2.56	-	2.56	-	85,575	41	462	99	*	1	73,460	72,131	147	1,182
Iowa Southern Utilities Co																
1986	-	-	-	-	-	-	39,814	47	-	100	*	-	47,432	47,249	182	-
1987	-	-	-	-	-	-	46,341	43	-	100	*	-	50,733	50,551	182	-
1988	-	-	-	-	-	-	47,235	42	-	100	*	-	51,778	51,615	163	-
1989	-	-	-	-	-	-	49,932	24	-	100	*	-	56,168	56,054	115	-
1990	-	-	-	-	-	-	44,827	67	-	100	*	-	47,710	47,375	335	-
Iowa-Illinois Gas&Electric Co																
1986	1,089	1,026	3.39	4.01	3.61	34.8	36,967	-	1,117	97	-	3	47,130	43,200	-	3,930
1987	908	1,026	2.87	3.23	3.01	38.5	39,732	-	932	98	-	2	47,294	44,560	-	2,733
1988	576	1,021	2.70	3.18	2.98	59.5	43,980	-	588	99	-	1	50,967	49,248	-	1,719
1989	435	1,024	2.98	3.48	3.31	65.5	44,824	-	445	99	-	1	52,498	51,059	-	1,440
1990	469	1,028	3.10	3.80	3.47	52.9	34,934	-	482	99	-	1	41,049	39,420	-	1,630

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Jacksonville Electric Auth																		
1986	204	100.0	11,728	12.8	3.8	33.45	-	33.45	6,833	100.0	151,512	1.4	13.24	-	13.24	-	-	-
1987	1,766	64.5	12,405	10.5	1.5	42.06	35.06	39.58	2,719	100.0	151,594	1.5	18.67	-	18.67	39	139,164	21.71
1988	2,869	80.0	12,297	9.8	.9	41.30	35.84	40.21	4,288	46.1	151,710	1.7	12.82	13.20	13.03	68	139,000	20.50
1989	2,949	72.7	12,332	9.7	1.2	44.13	39.52	42.87	2,395	63.6	150,642	1.7	15.81	14.18	15.22	29	138,939	23.03
1990	3,455	64.5	12,336	9.1	.9	45.16	40.54	43.52	1,229	-	151,100	1.6	-	13.01	13.01	39	139,000	32.41
Jamestown City of																		
1986	122	-	12,741	9.5	1.5	-	35.69	35.69	-	-	-	-	-	-	-	-	-	-
1987	116	-	12,767	10.0	1.5	-	33.48	33.48	-	-	-	-	-	-	-	-	-	-
1988	137	-	12,764	11.1	1.6	-	33.03	33.03	-	-	-	-	-	-	-	-	-	-
1989	103	-	12,737	10.9	1.5	-	33.49	33.49	-	-	-	-	-	-	-	-	-	-
1990	122	-	12,624	10.4	1.8	-	36.53	36.53	-	-	-	-	-	-	-	-	-	-
Jersey Central Power&Light Co																		
1986	-	-	-	-	-	-	-	-	1,163	100.0	147,505	.4	15.62	-	15.62	1	135,193	20.21
1987	-	-	-	-	-	-	-	-	463	100.0	148,525	.5	19.58	-	19.58	1	137,469	23.77
1988	-	-	-	-	-	-	-	-	1,416	71.0	149,459	.5	16.37	14.29	15.77	1	137,799	21.14
1989	-	-	-	-	-	-	-	-	1,101	68.1	149,673	.5	19.33	15.83	18.22	84	140,976	23.53
1990	-	-	-	-	-	-	-	-	672	100.0	149,769	.4	21.97	-	21.97	98	139,584	32.02
Kansas City City of																		
1986	1,239	86.3	9,116	5.8	.8	23.19	32.76	24.51	-	-	-	-	-	-	-	9	138,000	17.83
1987	1,338	98.4	9,222	7.3	1.0	26.75	34.12	26.87	-	-	-	-	-	-	-	16	138,000	22.55
1988	1,493	93.4	9,671	7.4	1.2	27.14	22.99	26.87	-	-	-	-	-	-	-	13	138,000	19.89
1989	1,315	85.0	9,120	6.5	.7	21.88	25.76	22.46	-	-	-	-	-	-	-	9	138,000	23.36
1990	1,274	81.1	9,296	6.9	.8	24.90	26.58	25.22	-	-	-	-	-	-	-	6	138,000	33.36
Kansas City Power & Light Co																		
1986	7,260	88.1	8,897	10.9	1.7	19.39	18.24	19.25	-	-	-	-	-	-	-	124	138,772	19.49
1987	8,589	76.5	8,944	9.5	1.5	17.84	18.31	17.95	-	-	-	-	-	-	-	83	138,289	22.46
1988	8,148	67.5	8,934	6.2	.7	17.04	18.57	17.54	-	-	-	-	-	-	-	90	138,740	20.04
1989	7,965	69.2	8,932	6.4	.8	17.35	18.79	17.79	-	-	-	-	-	-	-	75	138,626	24.95
1990	8,978	57.4	8,953	5.6	.7	16.61	19.42	17.81	-	-	-	-	-	-	-	70	138,175	27.17
Kansas Gas & Electric Co																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	45	-	148,497	1.5	-	17.05	17.05	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas Power & Light Co																		
1986	8,522	100.0	8,571	5.2	.4	23.15	-	23.15	-	-	-	-	-	-	-	-	-	-
1987	8,848	100.0	8,635	5.0	.4	22.72	-	22.72	-	-	-	-	-	-	-	-	-	-
1988	9,044	100.0	8,814	5.2	.4	22.61	-	22.61	-	-	-	-	-	-	-	-	-	-
1989	9,072	100.0	8,752	5.1	.4	22.82	-	22.82	-	-	-	-	-	-	-	-	-	-
1990	9,230	100.0	8,771	5.5	.4	23.34	-	23.34	-	-	-	-	-	-	-	-	-	-
Kentucky Power Co																		
1986	2,038	87.1	11,911	12.7	1.2	39.10	26.07	37.42	-	-	-	-	-	-	-	35	138,914	24.54
1987	2,266	65.1	11,994	12.8	1.2	37.35	25.16	33.10	-	-	-	-	-	-	-	36	139,497	23.56
1988	1,771	65.4	12,032	12.2	1.2	34.51	24.19	30.94	-	-	-	-	-	-	-	34	139,180	21.99
1989	2,636	61.4	11,906	12.0	1.2	31.09	23.47	28.14	-	-	-	-	-	-	-	33	138,531	27.85
1990	2,735	71.6	11,983	11.7	1.1	30.75	25.91	29.38	-	-	-	-	-	-	-	30	138,912	30.98
Kentucky Utilities Co																		
1986	4,875	43.9	12,134	9.7	1.8	47.12	28.47	36.66	-	-	-	-	-	-	-	56	140,000	19.99
1987	6,005	41.5	12,147	9.5	1.7	44.01	26.39	33.70	-	-	-	-	-	-	-	48	140,000	23.89
1988	5,885	25.8	12,050	9.6	1.5	45.61	26.15	31.16	-	-	-	-	-	-	-	55	140,000	22.64
1989	5,104	24.4	12,002	9.6	1.8	39.65	24.30	28.05	-	-	-	-	-	-	-	42	140,000	29.00
1990	6,534	42.5	12,166	9.8	1.5	33.96	28.30	30.70	-	-	-	-	-	-	-	35	140,000	32.99

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Jacksonville Electric Auth																
1986	1,697	1,040	2.65	2.26	2.56	22.0	4,785	43,482	1,765	10	87	4	101,637	6,824	90,462	4,351
1987	4,115	1,041	3.01	2.77	2.86	61.0	43,825	17,540	4,284	67	27	7	133,314	69,907	51,623	11,784
1988	817	1,042	2.35	2.54	2.38	13.0	70,554	27,724	851	71	28	1	174,539	115,336	57,260	1,942
1989	6,191	1,044	2.68	-	2.68	-	72,727	15,326	6,465	77	16	7	180,117	126,410	37,126	16,580
1990	7,099	1,047	2.50	2.21	2.26	82.9	85,242	8,029	7,429	85	8	7	183,654	150,363	17,251	16,040
Jamestown City of																
1986	-	-	-	-	-	-	3,115	-	-	100	-	-	4,363	4,363	-	-
1987	-	-	-	-	-	-	2,956	-	-	100	-	-	3,877	3,877	-	-
1988	-	-	-	-	-	-	3,504	-	-	100	-	-	4,534	4,534	-	-
1989	-	-	-	-	-	-	2,630	-	-	100	-	-	3,458	3,458	-	-
1990	-	-	-	-	-	-	3,092	-	-	100	-	-	4,473	4,473	-	-
Jersey Central Power&Light Co																
1986	4,590	1,035	2.55	-	2.55	-	-	7,213	4,751	-	60	40	29,883	-	18,190	11,693
1987	10,598	1,031	2.58	-	2.58	-	-	2,898	10,928	-	21	79	36,456	-	9,103	27,354
1988	5,938	1,028	2.33	-	2.33	-	-	8,894	6,107	-	59	41	36,172	-	22,342	13,830
1989	5,561	1,028	2.84	-	2.84	-	-	7,421	5,717	-	56	44	37,837	-	22,041	15,796
1990	3,004	1,032	2.63	-	2.63	-	-	4,800	3,100	-	61	39	25,801	-	17,893	7,908
Kansas City City of																
1986	388	970	2.89	-	2.89	-	22,583	49	377	98	*	2	31,628	30,353	152	1,123
1987	218	996	3.33	-	3.33	-	24,679	93	217	99	*	1	37,041	35,955	362	725
1988	193	985	3.13	-	3.13	-	28,871	73	190	99	*	1	40,958	40,103	252	604
1989	1,367	1,009	2.61	-	2.61	-	23,978	53	1,379	94	*	5	33,316	29,528	214	3,573
1990	765	1,015	2.28	-	2.28	-	23,694	37	776	97	*	3	34,077	32,135	201	1,741
Kansas City Power & Light Co																
1986	217	952	2.82	-	2.82	-	129,177	723	207	99	1	*	142,802	139,772	2,417	612
1987	124	986	2.60	-	2.60	-	153,654	480	122	100	*	*	156,367	154,188	1,857	322
1988	122	978	2.54	-	2.54	-	145,590	525	119	100	*	*	145,020	142,906	1,805	309
1989	136	1,013	2.33	-	2.33	-	142,287	439	138	100	*	*	143,920	141,723	1,881	316
1990	111	1,031	3.39	-	3.39	-	160,771	408	115	100	*	*	162,165	159,877	1,910	377
Kansas Gas & Electric Co																
1986	7,183	967	2.38	-	2.38	-	-	-	6,949	-	-	100	17,109	-	-	17,109
1987	5,772	988	2.10	-	2.10	-	-	-	5,703	-	-	100	12,135	-	-	12,135
1988	7,927	992	2.00	-	2.00	-	-	281	7,861	-	3	97	16,654	-	767	15,886
1989	9,494	957	1.82	-	1.82	-	-	-	9,090	-	-	100	17,321	-	-	17,321
1990	9,117	999	1.95	-	1.95	-	-	-	9,106	-	-	100	17,803	-	-	17,803
Kansas Power & Light Co																
1986	1,180	992	2.43	-	2.43	-	146,094	-	1,171	99	-	1	200,158	197,287	-	2,871
1987	1,899	1,005	2.11	-	2.11	-	152,806	-	1,908	99	-	1	205,040	201,034	-	4,006
1988	1,942	1,000	2.16	-	2.16	-	159,430	-	1,942	99	-	1	208,723	204,528	-	4,195
1989	1,386	1,019	1.94	-	1.94	-	158,786	-	1,412	99	-	1	209,683	206,991	-	2,692
1990	6,595	983	1.47	-	1.47	-	161,906	-	6,486	96	-	4	225,090	215,390	-	9,700
Kentucky Power Co																
1986	-	-	-	-	-	-	48,547	205	-	100	*	-	77,114	76,251	864	-
1987	-	-	-	-	-	-	54,352	213	-	100	*	-	75,854	74,997	858	-
1988	-	-	-	-	-	-	42,628	196	-	100	*	-	55,543	54,805	739	-
1989	-	-	-	-	-	-	62,775	194	-	100	*	-	75,124	74,194	930	-
1990	-	-	-	-	-	-	65,553	177	-	100	*	-	81,291	80,349	942	-
Kentucky Utilities Co																
1986	-	-	-	-	-	-	118,317	326	-	100	*	-	179,843	178,733	1,110	-
1987	-	-	-	-	-	-	145,893	284	-	100	*	-	203,551	202,395	1,156	-
1988	-	-	-	-	-	-	141,819	323	-	100	*	-	184,627	183,383	1,244	-
1989	-	-	-	-	-	-	122,516	246	-	100	*	-	144,366	143,153	1,213	-
1990	-	-	-	-	-	-	158,989	208	-	100	*	-	201,774	200,609	1,166	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Lafayette City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lake Worth City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	138,000	23.04
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	138,000	22.76
1988	-	-	-	-	-	-	-	-	1	-	148,100	2.0	-	20.22	20.22	2	139,004	21.94
1989	-	-	-	-	-	-	-	-	5	-	148,100	2.0	-	22.81	22.81	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lakeland City of																		
1986	261	100.0	12,236	10.6	1.5	52.33	-	52.33	745	-	149,604	1.6	-	13.91	13.91	24	138,847	19.97
1987	733	100.0	12,257	10.6	1.6	49.02	-	49.02	237	26.2	149,809	1.8	19.98	17.39	18.07	47	138,640	22.98
1988	731	100.0	12,296	10.9	1.6	53.52	-	53.52	281	-	149,933	2.1	-	13.48	13.48	31	137,668	21.01
1989	724	100.0	12,299	11.0	1.3	52.06	-	52.06	231	-	149,808	1.6	-	19.05	19.05	33	138,759	27.30
1990	902	100.0	12,242	10.5	1.1	51.02	-	51.02	184	-	150,070	2.2	-	15.53	15.53	26	138,761	28.94
Lansing City of																		
1986	1,089	60.4	12,961	7.3	.8	56.75	44.15	51.76	-	-	-	-	-	-	-	10	138,000	24.28
1987	1,262	52.1	13,053	7.1	.8	55.95	43.36	49.92	-	-	-	-	-	-	-	10	138,000	22.46
1988	929	63.1	13,015	7.1	.8	55.71	44.63	51.63	-	-	-	-	-	-	-	14	138,000	25.96
1989	1,166	58.8	13,025	7.7	.9	50.10	44.93	47.97	-	-	-	-	-	-	-	13	138,703	25.75
1990	1,143	61.6	13,029	7.0	.9	47.86	46.41	47.30	-	-	-	-	-	-	-	9	138,580	25.73
Long Island Lighting Co																		
1986	-	-	-	-	-	-	-	-	14,912	91.1	150,756	1.7	14.87	13.14	14.72	-	-	-
1987	-	-	-	-	-	-	-	-	18,054	91.0	151,188	1.4	18.53	18.00	18.48	-	-	-
1988	-	-	-	-	-	-	-	-	19,097	78.1	151,404	.8	15.71	14.86	15.53	-	-	-
1989	-	-	-	-	-	-	-	-	18,126	66.7	150,987	.8	18.73	17.22	18.23	-	-	-
1990	-	-	-	-	-	-	-	-	16,181	68.9	151,421	.8	21.43	20.69	21.20	-	-	-
Los Angeles City of																		
1986	1,427	87.1	11,747	8.9	.5	31.74	24.46	30.80	795	86.5	146,734	.2	12.45	12.52	12.46	-	-	-
1987	4,598	82.9	11,859	8.7	.6	33.11	20.38	30.94	502	100.0	145,401	.2	15.93	-	15.93	-	-	-
1988	4,373	86.2	11,777	8.7	.6	34.96	20.19	32.92	1,509	100.0	145,972	.2	16.82	-	16.82	-	-	-
1989	4,660	81.7	11,799	8.1	.5	35.95	26.97	34.31	2,336	100.0	145,990	.2	20.41	-	20.41	-	-	-
1990	4,822	78.2	11,702	8.3	.5	35.65	26.46	33.65	1,434	-	146,370	.2	-	36.41	36.41	-	-	-
Louisiana Power & Light Co																		
1986	-	-	-	-	-	-	-	-	375	100.0	150,487	1.0	9.14	-	9.14	3	144,834	27.16
1987	-	-	-	-	-	-	-	-	21	100.0	151,104	1.0	17.22	-	17.22	7	144,918	19.67
1988	-	-	-	-	-	-	-	-	213	100.0	151,272	1.0	21.62	-	21.62	83	142,834	34.56
1989	-	-	-	-	-	-	-	-	173	100.0	150,640	1.0	19.07	-	19.07	180	144,543	32.96
1990	-	-	-	-	-	-	-	-	48	100.0	148,468	1.0	16.30	-	16.30	89	142,195	30.14
Louisville Gas & Electric Co																		
1986	3,781	79.5	11,209	11.6	3.3	31.44	25.85	30.30	-	-	-	-	-	-	-	31	140,000	16.48
1987	4,296	79.9	11,198	12.2	3.3	31.35	23.50	29.77	-	-	-	-	-	-	-	40	140,000	23.56
1988	3,529	77.9	11,353	11.2	3.3	31.43	22.61	29.48	-	-	-	-	-	-	-	46	140,000	22.71
1989	4,374	40.2	11,477	10.3	3.0	31.62	22.59	26.21	-	-	-	-	-	-	-	37	140,000	30.03
1990	5,404	84.4	11,492	9.9	3.0	26.16	23.51	25.74	-	-	-	-	-	-	-	52	140,000	35.08
Lower Colorado River Authority																		
1986	3,186	98.6	8,849	5.8	.4	31.57	23.55	31.46	-	-	-	-	-	-	-	21	141,000	19.73
1987	4,362	96.8	8,451	5.9	.4	26.52	20.31	26.33	-	-	-	-	-	-	-	22	141,000	21.53
1988	5,593	96.1	8,589	5.3	.3	25.41	20.68	25.23	-	-	-	-	-	-	-	22	141,000	20.50
1989	5,998	96.4	8,644	5.2	.4	22.47	19.32	22.36	-	-	-	-	-	-	-	16	141,000	22.92
1990	5,677	79.3	8,610	5.5	.4	22.78	18.98	22.00	-	-	-	-	-	-	-	43	141,000	32.45

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Lafayette City of																
1986	7,797	1,042	2.00	2.28	2.28	98.9	-	-	8,127	-	-	100	17,791	-	-	17,791
1987	5,790	1,043	1.77	1.88	1.86	86.0	-	-	6,037	-	-	100	10,782	-	-	10,782
1988	4,426	1,042	1.79	1.84	1.81	54.0	-	-	4,612	-	-	100	8,024	-	-	8,024
1989	5,852	1,047	1.84	1.88	1.87	66.4	-	-	6,128	-	-	100	10,925	-	-	10,925
1990	3,430	1,048	1.66	1.88	1.85	90.5	-	-	3,595	-	-	100	6,361	-	-	6,361
Lake Worth City of																
1986	830	1,022	2.29	-	2.29	-	-	113	848	-	12	88	2,349	-	450	1,900
1987	825	1,024	2.71	-	2.71	-	-	48	845	-	5	95	2,422	-	189	2,233
1988	589	1,036	2.26	-	2.26	-	-	18	610	-	3	97	1,396	-	65	1,330
1989	889	1,026	2.47	-	2.47	-	-	29	913	-	3	97	2,303	-	105	2,198
1990	657	1,031	2.61	-	2.61	-	-	-	677	-	-	100	1,715	-	-	1,715
Lakeland City of																
1986	4,283	1,019	2.28	-	2.28	-	6,397	4,823	4,365	41	31	28	34,294	13,678	10,845	9,771
1987	3,578	1,025	2.85	2.84	2.85	1.5	17,978	1,764	3,666	77	8	16	51,489	35,949	5,360	10,180
1988	3,286	1,024	2.47	-	2.47	-	17,981	1,947	3,364	77	8	14	51,695	39,136	4,432	8,127
1989	2,391	1,025	2.74	-	2.74	-	17,808	1,641	2,449	81	7	11	49,539	37,693	5,286	6,560
1990	3,534	1,031	2.57	1.90	2.22	52.5	22,081	1,314	3,642	82	5	13	57,483	46,011	3,623	7,849
Lansing City of																
1986	-	-	-	-	-	-	28,230	56	-	100	*	-	56,606	56,370	236	-
1987	-	-	-	-	-	-	32,944	61	-	100	*	-	63,229	62,995	235	-
1988	-	-	-	-	-	-	24,185	80	-	100	*	-	48,325	47,968	357	-
1989	-	-	-	-	-	-	30,372	78	-	100	*	-	56,274	55,931	343	-
1990	-	-	-	-	-	-	29,790	52	-	100	*	-	54,304	54,075	229	-
Long Island Lighting Co																
1986	23,623	1,037	2.15	-	2.15	-	-	94,419	24,501	-	79	21	270,217	-	219,453	50,764
1987	26,843	1,029	2.31	2.44	2.31	.8	-	114,641	27,620	-	81	19	395,834	-	333,696	62,139
1988	25,141	1,030	2.20	2.73	2.21	2.7	-	121,438	25,891	-	82	18	352,118	-	296,507	55,611
1989	22,858	1,030	2.32	-	2.32	-	-	114,945	23,547	-	83	17	383,404	-	330,442	52,962
1990	33,453	1,031	2.29	-	2.29	-	-	102,906	34,504	-	75	25	419,686	-	343,019	76,667
Los Angeles City of																
1986	46,820	1,051	2.65	-	2.65	-	33,539	4,899	49,199	38	6	56	177,799	43,967	9,908	123,925
1987	56,026	1,045	2.60	-	2.60	-	109,066	3,066	58,536	64	2	34	295,906	142,273	7,998	145,635
1988	49,939	1,044	2.93	-	2.93	-	102,996	9,252	52,118	63	6	32	315,926	143,975	25,390	146,561
1989	49,521	1,047	2.62	-	2.62	-	109,970	14,323	51,826	62	8	29	337,540	159,864	47,684	129,992
1990	40,312	1,042	3.39	-	3.39	-	112,842	8,814	41,999	69	5	26	351,126	162,223	52,211	136,692
Louisiana Power & Light Co																
1986	131,697	1,039	-	1.66	1.66	100.0	-	2,387	136,847	-	2	98	222,226	-	3,503	218,723
1987	107,320	1,037	-	1.44	1.44	100.0	-	174	111,252	-	*	100	154,797	-	494	154,303
1988	114,610	1,044	2.62	1.40	1.41	99.4	-	1,854	119,651	-	2	98	169,197	-	7,489	161,708
1989	111,678	1,045	2.01	1.30	1.53	67.1	-	2,182	116,656	-	2	98	180,299	-	9,209	171,090
1990	112,563	1,045	1.86	1.26	1.49	62.1	-	831	117,644	-	1	99	171,216	-	3,471	167,745
Louisville Gas & Electric Co																
1986	365	1,025	2.93	-	2.93	-	84,763	183	374	99	*	*	116,134	114,553	514	1,067
1987	274	1,025	2.75	-	2.75	-	96,208	233	281	99	*	*	129,579	127,890	935	754
1988	373	1,025	2.47	-	2.47	-	80,130	272	382	99	*	*	105,996	104,024	1,052	921
1989	275	1,025	2.66	-	2.66	-	100,390	217	281	100	*	*	116,480	114,641	1,108	731
1990	192	1,025	3.03	-	3.03	-	124,205	306	197	100	*	*	141,529	139,123	1,824	582
Lower Colorado River Authority																
1986	33,643	1,029	2.10	1.77	1.77	98.7	56,385	124	34,615	62	*	38	160,216	100,217	414	59,584
1987	27,887	1,040	-	1.66	1.66	100.0	73,728	130	28,989	72	*	28	161,468	114,837	474	46,158
1988	21,202	1,033	-	1.79	1.79	100.0	96,075	130	21,893	81	*	19	179,417	141,105	451	37,861
1989	18,714	1,037	2.86	1.87	1.88	99.7	103,690	95	19,411	84	*	16	169,577	134,115	367	35,095
1990	17,452	1,026	2.36	1.79	1.79	98.7	97,753	255	17,905	84	*	15	157,562	124,882	1,395	31,284

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Lubbock City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Madison Gas & Electric Co																		
1986	36	-	11,211	7.9	1.4	-	39.58	39.58	-	-	-	-	-	-	-	-	-	-
1987	93	-	11,409	8.2	1.6	-	37.29	37.29	-	-	-	-	-	-	-	-	-	-
1988	150	57.3	12,164	7.7	2.1	38.77	41.16	39.79	-	-	-	-	-	-	-	-	-	-
1989	122	90.2	12,176	7.6	2.0	38.90	48.81	39.88	-	-	-	-	-	-	-	-	-	-
1990	100	91.0	12,138	8.0	2.1	39.63	47.91	40.38	-	-	-	-	-	-	-	-	-	-
Manitowoc City of																		
1986	93	3.6	13,146	7.2	.9	56.09	48.66	48.93	-	-	-	-	-	-	-	-	-	-
1987	113	-	13,221	6.6	.8	-	43.36	43.36	-	-	-	-	-	-	-	-	-	-
1988	102	-	13,129	7.3	.8	-	44.23	44.23	-	-	-	-	-	-	-	-	-	-
1989	114	-	13,129	7.3	.8	-	46.73	46.73	-	-	-	-	-	-	-	-	-	-
1990	130	7.8	13,163	7.4	.9	48.58	48.89	48.86	-	-	-	-	-	-	-	-	-	-
Marquette City of																		
1986	131	100.0	9,620	6.2	.6	41.66	-	41.66	-	-	-	-	-	-	-	1	138,000	17.64
1987	169	100.0	9,813	5.8	.6	34.96	-	34.96	-	-	-	-	-	-	-	-	-	-
1988	117	100.0	8,899	6.4	.5	33.65	-	33.65	-	-	-	-	-	-	-	-	-	-
1989	143	100.0	8,848	6.2	.5	33.51	-	33.51	-	-	-	-	-	-	-	1	138,000	27.18
1990	141	90.5	9,396	6.9	.6	34.10	31.68	33.87	-	-	-	-	-	-	-	1	138,000	36.31
Medina Electric Coop Inc																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	144,000	34.84
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metropolitan Edison Co																		
1986	791	82.2	13,111	7.1	1.7	48.72	42.75	47.66	-	-	-	-	-	-	-	45	136,338	22.15
1987	1,224	24.4	12,987	7.9	1.8	45.55	40.65	41.84	-	-	-	-	-	-	-	47	136,978	24.05
1988	1,092	30.5	13,038	7.7	1.8	45.81	40.98	42.45	-	-	-	-	-	-	-	51	136,610	21.30
1989	1,086	48.2	13,209	7.6	1.6	46.22	42.35	44.21	-	-	-	-	-	-	-	55	136,330	25.07
1990	1,395	84.8	13,241	7.2	1.8	43.69	46.40	44.11	-	-	-	-	-	-	-	35	138,149	29.92
Michigan South Central Pwr Agy																		
1986	92	100.0	11,763	10.6	3.4	45.35	-	45.35	-	-	-	-	-	-	-	5	140,000	20.99
1987	161	100.0	11,886	11.1	3.1	46.34	-	46.34	-	-	-	-	-	-	-	-	-	-
1988	111	100.0	11,797	10.3	3.2	48.04	-	48.04	-	-	-	-	-	-	-	6	140,000	23.20
1989	130	100.0	11,825	9.9	3.2	47.17	-	47.17	-	-	-	-	-	-	-	-	-	-
1990	143	100.0	11,733	10.0	3.4	47.87	-	47.87	-	-	-	-	-	-	-	7	133,000	21.51
Minnesota Power & Light Co																		
1986	[1] 2,766	93.8	8,666	8.3	.8	24.66	26.58	24.78	-	-	-	-	-	-	-	17	137,169	22.57
1987	3,224	98.6	8,636	8.8	.8	24.21	19.21	24.14	-	-	-	-	-	-	-	23	137,000	25.75
1988	3,819	87.4	8,593	8.9	.8	23.32	18.91	22.77	-	-	-	-	-	-	-	14	137,000	21.39
1989	3,950	83.0	8,684	9.1	.7	24.45	18.94	23.51	-	-	-	-	-	-	-	18	137,000	25.50
1990	4,037	78.9	8,721	9.7	.7	24.95	18.80	23.65	-	-	-	-	-	-	-	20	137,000	31.55
Minnkota Power Coop Inc																		
1986	3,310	100.0	6,750	7.5	.8	7.54	-	7.54	-	-	-	-	-	-	-	9	140,000	21.40
1987	3,627	100.0	6,717	7.5	.7	7.31	-	7.31	-	-	-	-	-	-	-	9	140,000	25.48
1988	3,863	100.0	6,707	7.5	.7	6.52	-	6.52	-	-	-	-	-	-	-	7	140,000	23.30
1989	3,767	100.0	6,746	7.4	.7	6.56	-	6.56	-	-	-	-	-	-	-	9	140,000	25.29
1990	4,100	100.0	6,850	7.9	1.0	6.44	-	6.44	-	-	-	-	-	-	-	7	140,000	31.12

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Lubbock City of																
1986	6,277	1,039	2.96	-	2.96	-	-	-	6,524	-	-	100	18,547	-	-	18,547
1987	6,718	1,047	2.59	-	2.59	-	-	-	7,033	-	-	100	17,372	-	-	17,372
1988	6,737	1,042	2.36	-	2.36	-	-	-	7,018	-	-	100	15,867	-	-	15,867
1989	6,663	1,041	2.45	-	2.45	-	-	-	6,933	-	-	100	16,292	-	-	16,292
1990	6,882	1,040	2.30	2.31	2.30	5.6	-	-	7,159	-	-	100	15,856	-	-	15,856
Madison Gas & Electric Co																
1986	949	1,003	3.76	-	3.76	-	807	-	952	46	-	54	4,991	1,425	-	3,566
1987	519	991	4.06	-	4.06	-	2,122	-	514	80	-	20	5,575	3,468	-	2,108
1988	571	999	3.10	-	3.10	-	3,649	-	571	86	-	14	7,737	5,969	-	1,768
1989	419	1,004	3.39	-	3.39	-	2,971	-	421	88	-	12	6,287	4,865	-	1,422
1990	424	1,001	3.16	-	3.16	-	2,428	-	424	85	-	15	5,378	4,038	-	1,340
Manitowoc City of																
1986	-	-	-	-	-	-	2,457	-	-	100	-	-	4,572	4,572	-	-
1987	-	-	-	-	-	-	2,984	-	-	100	-	-	4,893	4,893	-	-
1988	-	-	-	-	-	-	2,676	-	-	100	-	-	4,508	4,508	-	-
1989	-	-	-	-	-	-	3,000	-	-	100	-	-	5,339	5,339	-	-
1990	-	-	-	-	-	-	3,413	-	-	100	-	-	6,334	6,334	-	-
Marquette City of																
1986	-	-	-	-	-	-	2,528	7	-	100	*	-	5,496	5,474	21	-
1987	-	-	-	-	-	-	3,326	-	-	100	-	-	5,925	5,925	-	-
1988	-	-	-	-	-	-	2,088	-	-	100	-	-	3,947	3,947	-	-
1989	-	-	-	-	-	-	2,534	7	-	100	*	-	4,832	4,799	33	-
1990	-	-	-	-	-	-	2,642	6	-	100	*	-	4,798	4,762	36	-
Medina Electric Coop Inc																
1986	214	1,059	-	2.55	2.55	100.0	-	-	227	-	-	100	547	-	-	547
1987	279	1,070	-	2.24	2.24	100.0	-	-	299	-	-	100	625	-	-	625
1988	235	1,094	-	2.46	2.46	100.0	-	-	257	-	-	100	579	-	-	579
1989	122	1,115	-	2.48	2.48	100.0	-	2	136	-	2	98	316	-	14	302
1990	21	1,105	-	2.60	2.60	100.0	-	-	23	-	-	100	55	-	-	55
Metropolitan Edison Co																
1986	-	-	-	-	-	-	20,736	258	-	99	1	-	38,684	37,688	997	-
1987	-	-	-	-	-	-	31,806	271	-	99	1	-	52,369	51,236	1,133	-
1988	-	-	-	-	-	-	28,486	291	-	99	1	-	47,457	46,375	1,082	-
1989	-	-	-	-	-	-	28,703	318	-	99	1	-	49,430	48,039	1,391	-
1990	-	-	-	-	-	-	36,953	202	-	99	1	-	62,589	61,545	1,044	-
Michigan South Central Pwr Agy																
1986	-	-	-	-	-	-	2,156	32	-	99	1	-	4,270	4,155	115	-
1987	-	-	-	-	-	-	3,824	-	-	100	-	-	7,454	7,454	-	-
1988	-	-	-	-	-	-	2,615	35	-	99	1	-	5,462	5,324	138	-
1989	-	-	-	-	-	-	3,074	-	-	100	-	-	6,131	6,131	-	-
1990	-	-	-	-	-	-	3,356	39	-	99	1	-	6,996	6,846	150	-
Minnesota Power & Light Co																
1986	-	-	-	-	-	-	47,943	99	-	100	*	-	68,934	68,546	388	-
1987	-	-	-	-	-	-	55,679	131	-	100	*	-	78,400	77,816	585	-
1988	-	-	-	-	-	-	65,630	82	-	100	*	-	87,247	86,942	305	-
1989	-	-	-	-	-	-	68,604	102	-	100	*	-	93,328	92,876	453	-
1990	-	-	-	-	-	-	70,419	117	-	100	*	-	96,130	95,490	640	-
Minnkota Power Coop Inc																
1986	-	-	-	-	-	-	44,684	52	-	100	*	-	25,153	24,962	191	-
1987	-	-	-	-	-	-	48,729	53	-	100	*	-	26,756	26,527	229	-
1988	-	-	-	-	-	-	51,825	42	-	100	*	-	25,371	25,203	168	-
1989	-	-	-	-	-	-	50,826	52	-	100	*	-	24,931	24,708	223	-
1990	-	-	-	-	-	-	56,174	42	-	100	*	-	26,634	26,409	224	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Mississippi Power & Light Co																		
1986	-	-	-	-	-	-	-	-	1,743	100.0	150,178	3.1	13.02	-	13.02	16	136,890	30.03
1987	-	-	-	-	-	-	-	-	149	100.0	149,817	3.1	12.96	-	12.96	11	137,814	21.34
1988	-	-	-	-	-	-	-	-	966	41.9	150,934	2.9	17.71	22.53	20.51	38	138,055	35.04
1989	-	-	-	-	-	-	-	-	1,209	99.2	151,311	2.9	15.69	24.86	15.76	59	139,912	32.51
1990	-	-	-	-	-	-	-	-	1,161	100.0	151,618	2.9	15.00	-	15.00	31	141,801	30.15
Mississippi Power Co																		
1986	3,377	58.1	12,153	8.1	1.7	65.04	45.13	56.70	114	-	151,006	3.2	-	12.40	12.40	40	137,612	24.98
1987	3,635	30.1	12,698	7.6	1.4	42.90	50.47	48.19	1	-	149,577	3.1	-	21.18	21.18	18	139,077	21.63
1988	4,121	62.3	12,685	7.5	1.5	48.68	39.11	45.08	58	-	150,029	3.0	-	14.41	14.41	15	138,420	20.03
1989	2,723	75.5	12,714	7.5	1.7	42.52	33.67	40.35	-	-	-	-	-	-	-	29	137,593	31.33
1990	3,146	70.9	12,572	7.5	1.8	40.90	35.25	39.25	10	-	150,931	2.9	-	11.84	11.84	5	137,413	25.86
Missouri Public Service Comm																		
1986	790	100.0	10,952	10.6	3.2	39.21	-	39.21	-	-	-	-	-	-	-	-	-	-
1987	671	76.1	10,958	10.4	3.1	37.38	28.92	35.36	-	-	-	-	-	-	-	-	-	-
1988	835	62.3	10,979	10.3	3.1	36.23	28.83	34.69	-	-	-	-	-	-	-	-	-	-
1989	796	58.9	10,958	10.2	3.1	38.02	28.99	34.31	-	-	-	-	-	-	-	-	-	-
1990	857	69.4	11,064	9.8	3.0	38.33	30.40	35.91	-	-	-	-	-	-	-	-	-	-
Monongahela Power Co																		
1986	10,735	84.5	12,732	10.0	2.4	36.12	25.80	34.52	-	-	-	-	-	-	-	92	141,000	25.07
1987	12,820	77.6	12,643	10.5	2.4	35.38	23.37	32.69	-	-	-	-	-	-	-	94	141,000	25.71
1988	10,495	81.8	12,737	10.1	2.5	34.55	25.38	32.88	-	-	-	-	-	-	-	102	141,000	23.22
1989	11,725	75.0	12,668	10.1	2.6	34.29	26.51	32.35	-	-	-	-	-	-	-	112	141,000	26.88
1990	12,173	81.9	12,730	9.8	2.7	34.74	28.14	33.54	-	-	-	-	-	-	-	98	141,000	33.31
Montana Power Co																		
1986	7,308	100.0	8,598	9.8	.6	11.40	-	11.40	-	-	-	-	-	-	-	43	141,000	25.37
1987	7,376	100.0	8,649	8.8	.6	11.00	-	11.00	-	-	-	-	-	-	-	24	141,000	24.32
1988	10,306	100.0	8,552	9.5	.7	9.19	-	9.19	-	-	-	-	-	-	-	37	141,000	23.88
1989	9,989	100.0	8,555	9.5	.7	9.72	-	9.72	-	-	-	-	-	-	-	41	141,000	25.52
1990	9,343	100.0	8,602	8.9	.6	11.42	-	11.42	-	-	-	-	-	-	-	40	141,000	32.17
Montana-Dakota Utilities Co																		
1986	2,311	100.0	6,868	8.0	.9	12.37	-	12.37	-	-	-	-	-	-	-	16	136,552	21.40
1987	2,451	100.0	6,878	8.2	.9	12.27	-	12.27	-	-	-	-	-	-	-	16	136,552	23.41
1988	2,394	100.0	6,895	8.3	.9	11.72	-	11.72	-	-	-	-	-	-	-	16	136,552	20.97
1989	2,637	100.0	6,831	8.5	.9	11.03	-	11.03	-	-	-	-	-	-	-	22	136,552	25.06
1990	2,332	100.0	6,913	8.3	1.0	11.24	-	11.24	-	-	-	-	-	-	-	14	136,552	29.49
Montaup Electric Co																		
1986	389	100.0	13,298	6.7	1.1	50.26	-	50.26	105	-	150,809	.9	-	13.02	13.02	57	138,435	20.79
1987	506	100.0	13,373	6.9	1.2	45.27	-	45.27	20	-	150,420	.8	-	19.58	19.58	53	137,963	22.82
1988	465	83.3	13,331	6.9	1.2	45.82	44.93	45.67	82	-	150,767	.9	-	15.20	15.20	52	138,080	21.48
1989	524	100.0	13,170	7.1	1.1	45.67	-	45.67	91	-	151,676	1.0	-	17.13	17.13	49	139,168	24.45
1990	411	100.0	13,096	7.2	1.1	47.53	-	47.53	56	-	150,965	.9	-	17.39	17.39	48	138,647	31.87
Muscatine City of																		
1986	484	-	11,280	6.2	3.1	-	43.10	43.10	-	-	-	-	-	-	-	2	138,500	32.50
1987	486	40.0	11,313	6.2	3.1	43.61	47.10	45.70	-	-	-	-	-	-	-	4	138,500	25.78
1988	487	100.0	11,325	6.2	2.9	44.23	-	44.23	-	-	-	-	-	-	-	4	138,500	22.87
1989	536	100.0	11,166	6.7	3.0	42.95	-	42.95	-	-	-	-	-	-	-	4	138,500	26.43
1990	530	100.0	11,208	7.1	3.1	43.03	-	43.03	-	-	-	-	-	-	-	3	138,500	35.67
Narragansett Electric Co																		
1986	-	-	-	-	-	-	-	-	1,442	-	151,048	.9	-	15.04	15.04	-	-	-
Nebraska Public Power District																		
1986	3,053	99.9	8,955	4.9	.4	18.13	40.59	18.15	-	-	-	-	-	-	-	3	138,140	22.75
1987	2,912	97.2	8,892	5.0	.4	18.41	19.99	18.45	-	-	-	-	-	-	-	3	138,140	23.08
1988	3,611	100.0	8,813	5.1	.4	17.14	-	17.14	-	-	-	-	-	-	-	2	138,140	20.61
1989	4,176	100.0	8,816	5.2	.4	15.91	-	15.91	-	-	-	-	-	-	-	2	138,140	26.06
1990	3,831	99.8	8,804	5.2	.4	14.43	25.77	14.46	-	-	-	-	-	-	-	24	138,140	42.27

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Mississippi Power & Light Co																
1986	36,970	1,037	-	2.43	2.43	100.0	-	11,088	38,337	-	22	78	113,155	-	23,176	89,979
1987	26,963	1,027	1.69	2.13	1.96	61.9	-	997	27,689	-	3	97	54,971	-	2,157	52,814
1988	21,206	1,027	1.85	1.92	1.92	96.3	-	6,344	21,788	-	23	77	61,867	-	21,136	40,731
1989	18,761	1,028	1.94	1.99	1.96	42.5	-	8,030	19,292	-	29	71	57,757	-	20,972	36,785
1990	34,490	1,042	1.84	1.94	1.87	27.0	-	7,581	35,949	-	17	83	82,726	-	18,365	64,361
Mississippi Power Co																
1986	3,059	1,048	4.23	2.42	2.46	97.5	82,094	950	3,206	95	1	4	201,432	191,501	2,401	7,531
1987	4,135	1,032	-	1.77	1.77	100.0	92,305	113	4,268	95	*	4	182,892	175,148	418	7,327
1988	2,960	1,036	2.16	1.86	1.86	98.7	104,536	453	3,066	97	*	3	192,399	185,743	1,136	5,520
1989	11,239	1,026	1.77	3.63	1.77	.1	69,245	167	11,526	86	*	14	130,662	109,882	907	19,873
1990	11,676	1,032	1.75	3.65	1.76	.5	79,092	95	12,045	87	*	13	144,275	123,480	252	20,543
Missouri Public Service Comm																
1986	-	-	-	-	-	-	17,304	-	-	100	-	-	30,978	30,978	-	-
1987	-	-	-	-	-	-	14,710	-	-	100	-	-	23,733	23,733	-	-
1988	-	-	-	-	-	-	18,346	-	-	100	-	-	28,983	28,983	-	-
1989	-	-	-	-	-	-	17,447	-	-	100	-	-	27,313	27,313	-	-
1990	-	-	-	-	-	-	18,967	-	-	100	-	-	30,779	30,779	-	-
Monongahela Power Co																
1986	157	1,000	4.03	-	4.03	-	273,366	547	157	100	*	*	373,495	370,547	2,314	634
1987	88	1,000	3.94	-	3.94	-	324,171	556	88	100	*	*	421,897	419,140	2,412	345
1988	86	1,000	3.89	-	3.89	-	267,355	605	86	100	*	*	347,787	345,080	2,374	334
1989	129	1,000	4.59	-	4.59	-	297,049	661	129	100	*	*	382,826	379,236	2,998	592
1990	169	1,000	5.13	-	5.13	-	309,933	578	169	100	*	*	412,466	408,346	3,251	869
Montana Power Co																
1986	399	1,204	-	.96	.96	100.0	125,665	255	481	99	*	*	84,775	83,303	1,091	381
1987	471	1,207	-	1.06	1.06	100.0	127,590	142	568	99	*	*	82,191	81,107	584	501
1988	276	1,210	-	1.47	1.47	100.0	176,271	219	334	100	*	*	95,997	94,708	884	406
1989	326	1,214	-	1.34	1.34	100.0	170,903	243	396	100	*	*	98,614	97,130	1,046	438
1990	276	1,221	-	1.67	1.67	100.0	160,744	237	337	100	*	*	108,399	106,651	1,287	462
Montana-Dakota Utilities Co																
1986	8	1,040	4.81	-	4.81	-	31,748	95	8	100	*	*	28,982	28,593	353	37
1987	9	1,079	4.77	-	4.77	-	33,708	91	10	100	*	*	30,494	30,076	373	45
1988	6	1,132	4.58	-	4.58	-	33,021	93	7	100	*	*	28,422	28,051	342	28
1989	4	1,127	4.24	-	4.24	-	36,026	127	5	100	*	*	29,657	29,083	556	18
1990	11	1,127	4.21	-	4.21	-	32,244	80	12	100	*	*	26,672	26,217	410	45
Montaup Electric Co																
1986	-	-	-	-	-	-	10,354	997	-	91	9	-	22,123	19,567	2,556	-
1987	-	-	-	-	-	-	13,528	435	-	97	3	-	24,505	22,897	1,608	-
1988	-	-	-	-	-	-	12,393	821	-	94	6	-	23,590	21,226	2,364	-
1989	-	-	-	-	-	-	13,816	869	-	94	6	-	26,718	23,952	2,766	-
1990	-	-	-	-	-	-	10,765	634	-	94	6	-	22,040	19,536	2,503	-
Muscatine City of																
1986	45	1,000	-	3.13	3.13	100.0	10,926	14	45	99	*	*	21,089	20,873	76	140
1987	17	1,000	-	2.63	2.63	100.0	11,003	22	17	100	*	*	22,363	22,223	96	44
1988	10	1,000	-	2.27	2.27	100.0	11,024	22	10	100	*	*	21,636	21,527	88	22
1989	2	1,000	-	2.97	2.97	100.0	11,970	23	2	100	*	*	23,137	23,024	106	7
1990	19	1,000	-	2.56	2.56	100.0	11,890	16	19	100	*	*	22,969	22,824	97	48
Narragansett Electric Co																
1986	-	-	-	-	-	-	-	9,150	-	-	100	-	21,691	-	21,691	-
Nebraska Public Power District																
1986	432	951	3.19	-	3.19	-	54,683	16	411	99	*	1	56,869	55,426	64	1,379
1987	503	966	2.73	-	2.73	-	51,781	16	485	99	*	1	55,168	53,731	65	1,371
1988	378	951	3.18	-	3.18	-	63,646	10	360	99	*	1	63,142	61,904	36	1,202
1989	412	962	3.05	2.21	2.98	8.3	73,637	14	396	99	*	1	67,755	66,460	65	1,229
1990	281	954	2.58	-	2.58	-	67,454	140	268	99	*	*	57,131	55,387	1,020	724

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Nevada Power Co																		
1986	1,787	100.0	11,853	9.1	0.5	48.25	-	48.25	9	-	147,588	0.8	-	11.64	11.64	12	134,823	22.71
1987	1,498	100.0	11,911	8.8	.5	48.24	-	48.24	37	-	147,600	.8	-	11.61	11.61	5	134,800	27.14
1988	1,443	100.0	11,826	9.2	.6	47.40	-	47.40	131	-	148,049	.9	-	12.56	12.56	17	137,376	18.76
1989	1,503	100.0	11,868	9.4	.6	45.96	-	45.96	187	-	149,006	.9	-	16.91	16.91	25	138,604	30.83
1990	1,886	99.6	11,896	9.9	.6	42.30	34.66	42.26	202	30.6	148,978	.9	18.95	17.73	18.10	5	136,500	41.39
New England Power Co																		
1986	3,185	92.9	13,224	7.8	1.2	46.62	40.35	46.17	8,488	68.9	151,147	2.0	13.25	13.20	13.23	-	-	-
1987	2,991	69.4	13,071	8.3	1.2	42.09	39.92	41.42	7,344	75.7	152,862	1.7	16.25	16.42	16.29	158	151,228	18.56
1988	3,405	91.3	13,068	8.5	1.2	41.34	41.83	41.38	8,426	55.6	150,523	1.8	16.50	14.86	15.77	-	-	-
1989	3,445	82.8	12,979	8.4	1.2	40.45	41.78	40.68	8,366	72.2	150,600	1.9	18.30	17.27	18.02	-	-	-
1990	3,304	74.9	13,059	8.1	1.2	43.97	47.69	44.90	8,015	80.3	151,114	1.9	18.62	19.79	18.85	-	-	-
New Orleans Public Service Inc																		
1986	-	-	-	-	-	-	-	-	*	-	152,300	1.5	-	8.64	8.64	*	137,612	19.96
1987	-	-	-	-	-	-	-	-	*	-	152,300	1.5	-	19.40	19.40	*	137,613	21.36
1988	-	-	-	-	-	-	-	-	4	-	152,300	1.5	-	22.39	22.39	*	137,612	33.61
1989	-	-	-	-	-	-	-	-	26	-	152,300	1.5	-	17.74	17.74	-	-	-
1990	-	-	-	-	-	-	-	-	21	-	151,920	1.5	-	16.55	16.55	-	-	-
New York State Elec & Gas Corp																		
1986	3,185	72.0	12,404	12.0	2.0	41.55	36.97	40.27	-	-	-	-	-	-	-	43	137,000	22.28
1987	3,967	63.7	12,489	11.8	2.0	39.52	35.30	37.99	-	-	-	-	-	-	-	58	137,000	25.34
1988	[1] 3,438	51.7	12,472	12.1	2.1	40.00	35.39	37.78	-	-	-	-	-	-	-	47	137,000	23.30
1989	[1] 4,019	51.5	12,446	11.5	1.9	39.32	35.46	37.45	-	-	-	-	-	-	-	40	137,000	26.30
1990	[1] 4,530	46.7	12,471	11.4	2.1	37.78	38.51	38.17	-	-	-	-	-	-	-	27	137,000	38.07
Niagara Mohawk Power Corp																		
1986	2,440	56.2	13,054	8.2	1.7	47.58	38.38	43.55	7,804	51.1	149,774	1.6	16.97	12.41	14.74	-	-	-
1987	2,897	43.0	13,015	7.8	1.8	41.15	36.06	38.25	5,738	62.2	150,164	1.2	21.66	18.66	20.53	-	-	-
1988	3,000	48.7	13,023	7.9	1.8	41.04	35.90	38.41	10,790	63.2	150,023	1.1	15.49	14.60	15.16	-	-	-
1989	3,467	66.9	13,089	7.1	1.8	38.78	37.29	38.29	9,732	63.9	150,277	1.1	17.73	18.98	18.18	-	-	-
1990	3,494	83.9	13,120	7.3	2.0	39.53	38.38	39.35	10,828	60.2	150,333	1.1	22.42	20.61	21.70	4	137,404	45.69
Northern Indiana Pub Serv Co																		
1986	[1] 3,663	73.1	11,163	9.7	2.7	44.71	40.19	43.49	-	-	-	-	-	-	-	20	138,676	34.08
1987	[1] 5,119	50.7	11,492	8.8	2.4	44.30	34.23	39.34	-	-	-	-	-	-	-	25	138,676	23.51
1988	[1] 5,880	58.4	10,998	7.9	2.0	41.50	29.79	36.63	-	-	-	-	-	-	-	-	-	-
1989	[1] 6,476	55.6	10,802	8.2	1.8	38.72	27.38	33.69	-	-	-	-	-	-	-	-	-	-
1990	[1] 6,629	55.5	11,015	8.2	2.0	40.44	28.42	35.09	-	-	-	-	-	-	-	-	-	-
Northern States Power Co																		
1986	[1] 6,294	98.0	8,861	7.2	.6	22.76	26.10	22.83	-	-	-	-	-	-	-	-	-	-
1987	[1] 9,321	100.0	8,726	6.5	.4	19.59	21.31	19.59	-	-	-	-	-	-	-	-	-	-
1988	11,432	99.5	8,767	7.1	.5	19.92	25.71	19.95	-	-	-	-	-	-	-	-	-	-
1989	11,998	99.0	8,803	6.4	.5	19.94	21.81	19.96	-	-	-	-	-	-	-	-	-	-
1990	12,380	98.9	8,835	6.8	.5	21.26	21.62	21.26	-	-	-	-	-	-	-	-	-	-
Ohio Edison Co																		
1986	8,076	52.1	12,148	11.3	2.0	35.74	28.40	32.22	-	-	-	-	-	-	-	13	136,847	19.93
1987	7,547	53.2	12,192	11.2	2.1	34.55	27.29	31.15	-	-	-	-	-	-	-	45	136,761	24.75
1988	8,116	41.4	12,140	11.3	2.2	34.77	25.92	29.58	-	-	-	-	-	-	-	47	136,930	22.14
1989	7,976	42.9	12,085	11.4	2.2	34.76	25.84	29.67	-	-	-	-	-	-	-	52	137,201	25.01
1990	7,853	53.8	12,144	11.4	2.1	35.19	26.71	31.27	-	-	-	-	-	-	-	54	137,266	30.70
Ohio Power Co																		
1986	13,004	99.3	11,547	12.7	3.4	41.51	38.77	41.49	-	-	-	-	-	-	-	135	137,269	21.48
1987	14,096	98.5	11,542	13.1	3.4	39.14	28.07	38.97	-	-	-	-	-	-	-	139	137,657	24.30
1988	13,081	98.8	11,542	13.1	3.3	39.55	21.27	39.33	-	-	-	-	-	-	-	162	137,776	21.12
1989	13,445	91.8	11,485	13.2	3.3	42.50	25.46	41.09	-	-	-	-	-	-	-	183	137,617	25.90
1990	14,633	94.3	11,573	13.2	3.2	40.89	28.03	40.16	-	-	-	-	-	-	-	160	137,418	33.61

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Nevada Power Co																
1986	2,410	1,060	2.66	-	2.66	-	42,354	123	2,555	94	*	6	92,993	86,201	369	6,422
1987	2,748	1,041	2.48	-	2.48	-	35,674	259	2,860	92	1	7	79,628	72,237	568	6,822
1988	2,774	1,038	2.65	-	2.65	-	34,129	914	2,879	90	2	8	77,702	68,391	1,968	7,342
1989	3,505	1,043	3.22	-	3.22	-	35,671	1,317	3,654	88	3	9	84,271	69,068	3,936	11,267
1990	4,001	1,032	3.14	-	3.14	-	44,880	1,290	4,130	89	3	8	96,133	79,717	3,856	12,559
New England Power Co																
1986	-	-	-	-	-	-	84,248	53,885	-	61	39	-	259,415	147,076	112,339	-
1987	5,710	1,031	2.39	-	2.39	-	78,191	48,151	5,888	59	36	4	260,109	123,901	122,557	13,651
1988	166	1,032	2.15	-	2.15	-	89,009	53,266	171	62	37	*	274,154	140,930	132,867	358
1989	2,239	1,031	2.49	-	2.49	-	89,435	52,915	2,307	62	37	2	296,422	140,146	150,710	5,565
1990	5,933	1,033	2.24	-	2.24	-	86,292	50,870	6,132	60	36	4	312,713	148,350	151,065	13,298
New Orleans Public Service Inc																
1986	24,932	1,029	1.82	-	1.82	-	-	2	25,659	-	*	100	45,479	-	6	45,473
1987	31,531	1,036	1.69	-	1.69	-	-	3	32,660	-	*	100	53,220	-	11	53,209
1988	25,438	1,032	1.94	-	1.94	-	-	30	26,251	-	*	100	49,542	-	108	49,435
1989	19,336	1,028	1.93	-	1.93	-	-	167	19,876	-	1	99	37,811	-	463	37,348
1990	22,851	1,029	1.88	-	1.88	-	-	137	23,515	-	1	99	43,361	-	354	43,006
New York State Elec & Gas Corp																
1986	-	-	-	-	-	-	79,024	249	-	100	*	-	129,235	128,270	965	-
1987	-	-	-	-	-	-	99,089	335	-	100	*	-	152,191	150,716	1,475	-
1988	-	-	-	-	-	-	85,759	269	-	100	*	-	130,978	129,887	1,090	-
1989	-	-	-	-	-	-	100,047	231	-	100	*	-	151,566	150,509	1,057	-
1990	-	-	-	-	-	-	112,995	155	-	100	*	-	173,964	172,936	1,028	-
Niagara Mohawk Power Corp																
1986	3,121	1,032	3.60	-	3.60	-	63,704	49,091	3,221	55	42	3	232,511	106,269	115,011	11,231
1987	18,651	1,034	2.24	-	2.24	-	75,412	36,189	19,278	58	28	15	270,415	110,824	117,802	41,789
1988	11,701	1,031	2.23	-	2.23	-	78,144	67,987	12,060	49	43	8	304,959	115,222	163,603	26,133
1989	25,782	1,017	2.53	-	2.53	-	90,758	61,425	26,211	51	34	15	374,981	132,744	176,925	65,313
1990	21,280	1,036	2.46	3.59	2.50	3.3	91,675	68,389	22,040	50	38	12	425,760	137,463	235,089	53,208
Northern Indiana Pub Serv Co																
1986	708	1,000	-	4.75	4.75	100.0	81,781	116	708	99	*	1	163,352	159,309	678	3,365
1987	850	1,000	-	2.63	2.63	100.0	117,651	146	850	99	*	1	204,175	201,350	588	2,238
1988	2,798	1,000	-	2.47	2.47	100.0	129,346	-	2,798	98	-	2	222,333	215,420	-	6,914
1989	3,528	1,000	-	2.60	2.60	100.0	139,913	-	3,528	98	-	2	227,346	218,167	-	9,179
1990	5,849	1,000	-	2.52	2.52	100.0	146,045	-	5,849	96	-	4	247,397	232,640	-	14,757
Northern States Power Co																
1986	481	998	3.20	-	3.20	-	111,539	-	480	100	-	*	145,209	143,672	-	1,537
1987	1,338	999	2.26	-	2.26	-	162,674	-	1,338	99	-	1	185,599	182,572	-	3,027
1988	1,048	1,007	2.39	-	2.39	-	200,450	-	1,056	99	-	1	230,591	228,085	-	2,506
1989	783	1,006	2.39	-	2.39	-	211,240	-	788	100	-	*	241,308	239,435	-	1,873
1990	867	1,005	2.06	-	2.06	-	218,756	-	872	100	-	*	265,041	263,258	-	1,784
Ohio Edison Co																
1986	-	-	-	-	-	-	196,222	76	-	100	*	-	260,513	260,250	263	-
1987	-	-	-	-	-	-	184,031	261	-	100	*	-	236,266	235,140	1,126	-
1988	-	-	-	-	-	-	197,062	269	-	100	*	-	241,144	240,108	1,036	-
1989	-	-	-	-	-	-	192,769	299	-	100	*	-	237,922	236,624	1,298	-
1990	31	1,068	3.17	-	3.17	-	190,743	311	33	100	*	*	247,310	245,557	1,655	99
Ohio Power Co																
1986	-	-	-	-	-	-	300,303	778	-	100	*	-	542,478	539,581	2,897	-
1987	-	-	-	-	-	-	325,409	806	-	100	*	-	552,727	549,340	3,387	-
1988	-	-	-	-	-	-	301,949	939	-	100	*	-	517,864	514,436	3,428	-
1989	-	-	-	-	-	-	308,824	1,055	-	100	*	-	557,239	552,509	4,730	-
1990	-	-	-	-	-	-	338,687	922	-	100	*	-	593,035	587,668	5,367	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Ohio Valley Electric Corp																		
1986	3,142	73.7	11,985	9.7	3.6	39.73	24.51	35.73	-	-	-	-	-	-	-	6	138,071	27.21
1987	3,387	67.8	11,931	9.9	3.6	38.36	22.12	33.14	-	-	-	-	-	-	-	5	138,071	25.43
1988	2,831	80.7	11,964	10.3	3.7	35.63	21.49	32.90	-	-	-	-	-	-	-	4	138,071	26.93
1989	3,182	71.1	11,980	10.0	3.8	26.26	21.72	24.95	-	-	-	-	-	-	-	5	138,071	28.75
1990	3,510	66.5	11,860	10.8	3.8	31.89	22.72	28.82	-	-	-	-	-	-	-	4	137,864	32.65
Oklahoma Gas & Electric Co																		
1986	5,806	96.2	8,980	4.9	.4	28.58	31.21	28.68	-	-	-	-	-	-	-	30	137,138	13.23
1987	6,070	92.5	9,179	5.1	.4	27.46	34.59	28.00	-	-	-	-	-	-	-	-	-	-
1988	6,168	82.7	9,205	5.1	.4	28.04	32.39	28.79	136	-	153,216	1.0	-	16.10	16.10	-	-	-
1989	6,517	87.8	9,089	5.4	.4	24.35	29.07	24.93	-	-	-	-	-	-	-	10	135,560	22.43
1990	6,549	87.0	9,060	5.4	.4	24.65	28.24	25.11	110	-	156,571	1.1	-	19.88	19.88	5	143,488	45.26
Omaha Public Power District																		
1986	2,264	76.8	8,311	4.7	.3	16.39	10.64	15.05	-	-	-	-	-	-	-	-	-	-
1987	2,908	63.7	8,290	5.0	.3	12.34	10.58	11.70	-	-	-	-	-	-	-	-	-	-
1988	3,301	88.2	8,329	4.8	.3	10.90	10.87	10.89	-	-	-	-	-	-	-	5	137,500	19.70
1989	2,640	67.1	8,329	5.1	.4	11.14	11.17	11.15	-	-	-	-	-	-	-	9	137,500	24.93
1990	3,448	58.9	8,295	4.8	.3	10.80	11.03	10.90	-	-	-	-	-	-	-	4	137,500	32.43
Orange & Rockland Utils Inc																		
1986	-	-	-	-	-	-	-	-	4,933	-	147,136	.3	-	16.51	16.51	-	-	-
1987	151	100.0	13,216	7.3	.5	53.87	-	53.87	4,159	-	147,280	.3	-	19.56	19.56	-	-	-
1988	416	100.0	13,037	7.4	.6	54.70	-	54.70	4,784	-	148,321	.3	-	16.61	16.61	-	-	-
1989	590	100.0	12,919	7.5	.6	55.68	-	55.68	6,012	-	148,131	.3	-	19.71	19.71	-	-	-
1990	687	93.4	13,101	7.0	.6	56.47	52.91	56.24	4,784	-	148,376	.3	-	23.38	23.38	-	-	-
Orlando Utilities Comm																		
1986	-	-	-	-	-	-	-	-	1,130	-	151,276	1.2	-	12.77	12.77	-	-	-
1987	538	94.5	13,396	6.3	1.0	50.74	49.72	50.68	378	-	150,085	.8	-	18.50	18.50	5	138,153	21.98
1988	953	98.0	13,235	6.4	.9	49.62	38.53	49.40	775	41.2	152,405	1.6	12.92	13.04	12.99	2	137,360	20.07
1989	1,074	100.0	12,723	8.7	.7	48.15	-	48.15	474	40.9	153,182	1.4	15.72	14.27	14.86	11	138,560	31.54
1990	996	100.0	12,732	9.5	.8	48.30	-	48.30	1,007	.7	151,447	1.5	19.52	12.70	12.75	4	137,270	27.24
Otter Tail Power Co																		
1986	2,094	100.0	6,173	8.0	.9	16.09	-	16.09	-	-	-	-	-	-	-	23	140,000	21.66
1987	789	100.0	6,119	8.2	.9	15.55	-	15.55	-	-	-	-	-	-	-	16	140,000	25.80
1988	2,260	90.8	6,434	7.9	.9	15.26	20.58	15.75	-	-	-	-	-	-	-	11	140,000	23.14
1989	2,312	89.3	6,473	7.4	.8	15.24	23.11	16.08	-	-	-	-	-	-	-	13	140,000	26.21
1990	2,253	93.1	6,341	8.1	.9	14.08	23.02	14.70	-	-	-	-	-	-	-	11	140,000	32.23
Owensboro City of																		
1986	813	100.0	10,839	11.7	2.9	33.90	-	33.90	-	-	-	-	-	-	-	4	140,000	21.09
1987	696	100.0	10,823	11.4	3.0	29.26	-	29.26	-	-	-	-	-	-	-	3	140,000	23.76
1988	538	100.0	10,768	11.7	2.8	27.84	-	27.84	-	-	-	-	-	-	-	3	140,000	23.77
1989	792	100.0	10,656	12.0	2.9	23.22	-	23.22	-	-	-	-	-	-	-	3	138,124	29.89
1990	1,003	100.0	10,669	12.4	3.0	23.52	-	23.52	-	-	-	-	-	-	-	4	138,000	35.57
Pacific Gas & Electric Co																		
1986	-	-	-	-	-	-	-	-	553	100.0	148,394	.5	13.94	-	13.94	-	-	-
1987	-	-	-	-	-	-	-	-	1,631	-	151,598	.3	-	18.57	18.57	-	-	-
1988	-	-	-	-	-	-	-	-	5,825	-	146,761	.4	-	16.16	16.16	-	-	-
1989	-	-	-	-	-	-	-	-	4,043	-	147,047	.5	-	17.28	17.28	-	-	-
1990	-	-	-	-	-	-	-	-	3,471	-	146,420	.5	-	26.20	26.20	-	-	-
PacifiCorp																		
1986	15,851	98.5	8,574	11.3	.6	20.06	19.33	20.05	-	-	-	-	-	-	-	97	140,155	21.27
1987	15,992	90.6	8,662	10.6	.6	19.74	11.72	18.99	-	-	-	-	-	-	-	87	140,129	23.91
1988	18,895	96.6	8,617	10.6	.6	18.13	14.92	18.02	-	-	-	-	-	-	-	101	140,107	22.76
1989	28,472	89.0	9,353	11.2	.6	19.78	14.93	19.24	-	-	-	-	-	-	-	143	140,088	25.21
1990	28,990	83.8	9,521	10.5	.6	19.79	13.38	18.75	-	-	-	-	-	-	-	99	140,057	30.58

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Ohio Valley Electric Corp																
1986	-	-	-	-	-	-	75,314	33	-	100	*	-	112,424	112,269	155	-
1987	-	-	-	-	-	-	80,822	28	-	100	*	-	112,360	112,238	122	-
1988	-	-	-	-	-	-	67,739	24	-	100	*	-	93,242	93,130	112	-
1989	-	-	-	-	-	-	76,240	29	-	100	*	-	79,534	79,389	146	-
1990	-	-	-	-	-	-	83,255	23	-	100	*	-	101,271	101,141	129	-
Oklahoma Gas & Electric Co																
1986	104,344	1,037	-	2.78	2.78	100.0	104,276	172	108,204	49	*	51	456,769	166,514	396	289,860
1987	96,773	1,037	-	2.73	2.73	100.0	111,424	-	100,353	53	-	47	434,054	169,951	-	264,104
1988	91,688	1,037	-	2.85	2.85	100.0	113,564	872	95,081	54	*	45	441,358	177,599	2,182	261,578
1989	90,137	1,037	-	3.08	3.08	100.0	118,459	56	93,473	56	*	44	440,067	162,434	221	277,412
1990	83,757	1,037	3.20	3.09	3.18	25.8	118,656	754	86,856	58	*	42	432,836	164,453	2,412	265,970
Omaha Public Power District																
1986	405	1,005	3.29	-	3.29	-	37,629	-	408	99	-	1	35,407	34,074	-	1,332
1987	665	987	2.38	-	2.38	-	48,220	-	656	99	-	1	35,617	34,032	-	1,585
1988	235	989	2.62	-	2.62	-	54,998	27	232	100	*	*	36,672	35,965	93	615
1989	444	990	2.43	-	2.43	-	43,979	53	439	99	*	1	30,748	29,443	229	1,076
1990	321	990	2.35	-	2.35	-	57,194	25	318	99	*	1	38,458	37,565	139	754
Orange & Rockland Utils Inc																
1986	25,410	1,034	2.33	-	2.33	-	-	30,488	26,275	-	54	46	140,683	-	81,432	59,251
1987	25,544	1,032	2.30	-	2.30	-	3,996	25,728	26,350	7	46	47	148,317	8,145	81,357	58,816
1988	21,892	1,033	2.34	-	2.34	-	10,839	29,805	22,620	17	47	36	153,330	22,739	79,453	51,138
1989	24,666	1,032	2.61	-	2.61	-	15,245	37,402	25,444	20	48	33	215,658	32,851	118,468	64,339
1990	30,379	1,035	2.75	-	2.75	-	17,991	29,813	31,433	23	38	40	233,916	38,615	111,836	83,466
Orlando Utilities Comm																
1986	15,053	1,022	2.21	-	2.21	-	-	7,182	15,383	-	32	68	47,702	-	14,435	33,267
1987	10,322	1,023	2.84	-	2.84	-	14,417	2,416	10,559	53	9	39	63,704	27,273	7,118	29,312
1988	8,049	1,024	2.26	-	2.26	-	25,235	4,973	8,242	66	13	21	75,425	47,092	10,111	18,222
1989	12,739	1,026	2.59	-	2.59	-	27,335	3,112	13,074	63	7	30	92,159	51,722	7,382	33,056
1990	11,671	1,030	2.40	2.67	2.45	18.8	25,366	6,429	12,021	58	15	27	89,653	48,116	12,954	28,583
Otter Tail Power Co																
1986	-	-	-	-	-	-	25,851	135	-	99	1	-	34,190	33,693	497	-
1987	-	-	-	-	-	-	9,656	91	-	99	1	-	12,667	12,265	401	-
1988	-	-	-	-	-	-	29,073	62	-	100	*	-	35,833	35,588	244	-
1989	-	-	-	-	-	-	29,933	78	-	100	*	-	37,532	37,186	346	-
1990	-	-	-	-	-	-	28,573	64	-	100	*	-	33,464	33,112	352	-
Owensboro City of																
1986	-	-	-	-	-	-	17,627	21	-	100	*	-	27,642	27,566	77	-
1987	-	-	-	-	-	-	15,064	19	-	100	*	-	20,437	20,361	76	-
1988	-	-	-	-	-	-	11,580	18	-	100	*	-	15,039	14,968	72	-
1989	-	-	-	-	-	-	16,888	17	-	100	*	-	18,484	18,397	87	-
1990	-	-	-	-	-	-	21,408	25	-	100	*	-	23,754	23,599	154	-
Pacific Gas & Electric Co																
1986	152,531	1,039	3.35	-	3.35	-	-	3,445	158,488	-	2	98	518,527	-	7,704	510,823
1987	238,595	1,029	2.63	-	2.63	-	-	10,382	245,469	-	4	96	656,914	-	30,286	626,628
1988	262,323	1,029	2.72	-	2.72	-	-	35,905	270,029	-	12	88	806,420	-	94,122	712,298
1989	226,309	1,033	2.94	-	2.94	-	-	24,970	233,742	-	10	90	734,645	-	69,845	664,800
1990	229,832	1,027	3.17	-	3.17	-	-	21,345	236,004	-	8	92	819,689	-	90,927	728,762
PacifiCorp																
1986	-	-	-	-	-	-	271,812	571	-	100	*	-	319,821	317,757	2,064	-
1987	-	-	-	-	-	-	277,054	512	-	100	*	-	305,732	303,652	2,080	-
1988	-	-	-	-	-	-	325,624	594	-	100	*	-	342,865	340,566	2,299	-
1989	87	1,036	3.61	-	3.61	-	532,601	841	90	100	*	*	551,808	547,889	3,605	314
1990	70	1,035	3.26	-	3.26	-	552,017	582	72	100	*	*	546,717	543,462	3,027	228

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Painesville City of																		
1986	70	-	12,253	7.8	2.3	-	33.13	33.13	-	-	-	-	-	-	-	-	-	-
1987	92	-	12,420	8.1	2.3	-	32.34	32.34	-	-	-	-	-	-	-	-	-	-
1988	84	67.1	12,772	7.7	2.7	33.04	32.27	32.79	-	-	-	-	-	-	-	-	-	-
1989	61	100.0	12,741	9.8	2.8	33.89	-	33.89	-	-	-	-	-	-	-	-	-	-
1990	88	100.0	12,211	9.4	2.8	33.76	-	33.76	-	-	-	-	-	-	-	-	-	-
Pasadena City of																		
1986	-	-	-	-	-	-	-	-	18	100.0	147,140	0.2	35.00	-	35.00	8	138,214	27.80
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	66	100.0	147,260	.2	15.54	-	15.54	-	-	-
1989	-	-	-	-	-	-	-	-	99	100.0	148,699	.1	22.12	-	22.12	-	-	-
1990	-	-	-	-	-	-	-	-	29	100.0	149,256	.2	17.97	-	17.97	-	-	-
Pennsylvania Electric Co																		
1986	15,705	90.7	12,126	15.6	1.9	33.27	27.27	32.71	-	-	-	-	-	-	-	248	138,800	21.57
1987	16,651	80.9	12,168	15.4	1.8	33.26	27.68	32.19	-	-	-	-	-	-	-	240	138,800	23.64
1988	15,979	72.9	12,117	15.5	1.8	34.98	28.51	33.23	-	-	-	-	-	-	-	230	138,800	21.84
1989	16,307	68.7	12,146	15.2	1.8	34.19	30.15	32.93	-	-	-	-	-	-	-	228	138,800	24.61
1990	17,920	70.2	12,084	15.2	1.8	35.87	33.39	35.13	-	-	-	-	-	-	-	224	138,800	31.19
Pennsylvania Power & Light Co																		
1986	[1] 9,193	72.9	12,331	13.7	1.7	44.73	31.28	41.08	9,087	52.3	150,009	.9	15.69	14.08	14.92	496	139,776	21.79
1987	[1] 9,607	83.0	12,240	14.5	1.7	42.70	27.16	40.06	6,934	76.8	150,657	.9	18.19	19.22	18.43	335	139,328	22.52
1988	[1] 9,244	80.1	12,277	14.4	1.8	43.09	28.24	40.14	5,727	78.5	151,395	.9	14.68	14.50	14.64	404	140,184	19.86
1989	[1] 9,634	72.2	12,223	14.5	1.8	42.85	31.58	39.72	6,227	80.7	151,602	.9	17.58	16.41	17.35	265	140,461	22.62
1990	10,626	74.7	12,186	14.6	1.9	43.88	33.46	41.24	3,558	56.1	151,254	.9	20.15	22.30	21.09	261	139,426	35.49
Pennsylvania Power Co																		
1986	7,469	42.7	12,114	11.6	3.4	47.58	29.74	37.36	-	-	-	-	-	-	-	27	138,677	20.37
1987	6,766	73.6	12,109	11.5	3.5	36.29	29.43	34.48	-	-	-	-	-	-	-	145	138,249	23.62
1988	6,280	93.2	12,079	11.9	3.7	35.47	28.63	35.01	-	-	-	-	-	-	-	67	139,285	21.45
1989	6,330	91.1	12,111	11.6	3.7	36.84	29.26	36.17	-	-	-	-	-	-	-	113	137,035	23.42
1990	6,761	94.0	12,084	11.8	3.9	36.34	30.69	36.00	-	-	-	-	-	-	-	85	137,727	23.74
Philadelphia Electric Co																		
1986	585	-	13,055	7.6	1.5	-	40.41	40.41	4,904	96.5	148,615	.5	15.77	14.71	15.74	-	-	-
1987	1,279	37.5	13,035	7.6	1.6	39.78	39.28	39.47	4,275	88.7	149,531	.5	19.70	18.39	19.55	-	-	-
1988	1,071	68.1	13,179	7.4	1.5	41.55	40.90	41.35	3,943	87.5	150,029	.5	15.74	14.55	15.59	-	-	-
1989	1,223	52.7	13,048	7.7	1.5	41.68	43.52	42.55	4,991	73.1	149,964	.5	18.15	21.89	19.16	-	-	-
1990	802	83.5	13,071	7.4	1.5	43.28	46.31	43.78	3,004	71.8	150,450	.5	20.28	22.23	20.83	12	139,722	36.17
Plains Elec Gen&Trans Coop Inc																		
1986	605	100.0	9,478	13.9	.8	31.18	-	31.18	-	-	-	-	-	-	-	-	-	-
1987	612	100.0	9,598	14.2	.7	31.46	-	31.46	-	-	-	-	-	-	-	-	-	-
1988	858	100.0	9,500	14.5	.8	25.62	-	25.62	-	-	-	-	-	-	-	-	-	-
1989	921	100.0	9,416	15.7	.7	25.85	-	25.85	-	-	-	-	-	-	-	-	-	-
1990	836	100.0	9,223	17.2	.7	24.24	-	24.24	-	-	-	-	-	-	-	-	-	-
Platte River Power Authority																		
1986	1,046	100.0	8,845	4.8	.3	18.90	-	18.90	-	-	-	-	-	-	-	-	-	-
1987	1,142	97.1	8,771	5.1	.3	13.31	12.87	13.30	-	-	-	-	-	-	-	-	-	-
1988	1,183	100.0	8,833	5.6	.3	12.46	-	12.46	-	-	-	-	-	-	-	-	-	-
1989	1,157	100.0	8,784	5.2	.3	12.53	-	12.53	-	-	-	-	-	-	-	-	-	-
1990	1,089	100.0	8,778	5.5	.3	12.83	-	12.83	-	-	-	-	-	-	-	-	-	-
Portland General Electric Co																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	138,800	18.90
1987	377	100.0	8,484	4.7	.3	23.78	-	23.78	-	-	-	-	-	-	-	-	-	-
1988	235	91.1	8,528	4.7	.3	23.70	23.73	23.70	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	139,838	26.59
1990	968	100.0	8,348	4.6	.3	18.02	-	18.02	-	-	-	-	-	-	-	13	139,000	20.28

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Painesville City of																
1986	8	1,000	-	4.68	4.68	100.0	1,723	-	8	100	-	*	2,365	2,330	-	35
1987	16	1,000	4.20	4.42	4.24	19.2	2,287	-	16	99	-	1	3,046	2,977	-	68
1988	7	1,000	4.27	-	4.27	-	2,157	-	7	100	-	*	2,800	2,769	-	31
1989	8	1,000	4.48	-	4.48	-	1,553	-	8	99	-	1	2,102	2,066	-	36
1990	18	1,000	4.42	-	4.42	-	2,154	-	18	99	-	1	3,057	2,978	-	79
Pasadena City of																
1986	3,789	1,036	2.35	-	2.35	-	-	161	3,925	-	4	96	9,788	-	869	8,919
1987	4,135	1,033	2.39	-	2.39	-	-	-	4,273	-	-	100	9,894	-	-	9,894
1988	3,264	1,028	2.75	-	2.75	-	-	406	3,354	-	11	89	10,000	-	1,020	8,979
1989	4,524	1,031	2.88	-	2.88	-	-	616	4,666	-	12	88	15,188	-	2,182	13,005
1990	3,813	1,028	3.40	-	3.40	-	-	180	3,920	-	4	96	13,466	-	515	12,951
Pennsylvania Electric Co																
1986	-	-	-	-	-	-	380,874	1,446	-	100	*	-	519,099	513,750	5,349	-
1987	-	-	-	-	-	-	405,230	1,399	-	100	*	-	541,721	536,048	5,673	-
1988	-	-	-	-	-	-	387,246	1,341	-	100	*	-	535,994	530,970	5,024	-
1989	-	-	-	-	-	-	396,125	1,329	-	100	*	-	542,551	536,940	5,611	-
1990	-	-	-	-	-	-	433,091	1,306	-	100	*	-	636,496	629,509	6,987	-
Pennsylvania Power & Light Co																
1986	-	-	-	-	-	-	226,723	60,163	-	79	21	-	524,098	377,686	146,412	-
1987	-	-	-	-	-	-	235,184	45,836	-	84	16	-	520,190	384,840	135,350	-
1988	-	-	-	-	-	-	226,981	38,794	-	85	15	-	462,972	371,095	91,877	-
1989	-	-	-	-	-	-	235,505	41,212	-	85	15	-	496,650	382,624	114,026	-
1990	-	-	-	-	-	-	258,966	24,131	-	91	9	-	522,499	438,190	84,309	-
Pennsylvania Power Co																
1986	-	-	-	-	-	-	180,969	160	-	100	*	-	279,607	279,047	560	-
1987	-	-	-	-	-	-	163,861	845	-	99	1	-	236,717	233,281	3,436	-
1988	-	-	-	-	-	-	151,706	394	-	100	*	-	221,284	219,838	1,446	-
1989	-	-	-	-	-	-	153,325	652	-	100	*	-	231,608	228,954	2,654	-
1990	-	-	-	-	-	-	163,392	493	-	100	*	-	245,437	243,414	2,023	-
Philadelphia Electric Co																
1986	-	-	-	-	-	-	15,274	30,610	-	33	67	-	100,812	23,638	77,174	-
1987	-	-	-	-	-	-	33,343	26,848	-	55	45	-	134,059	50,484	83,576	-
1988	-	-	-	-	-	-	28,229	24,846	-	53	47	-	105,757	44,281	61,476	-
1989	-	-	-	-	-	-	31,915	31,436	-	50	50	-	147,663	52,043	95,621	-
1990	-	-	-	-	-	-	20,968	19,052	-	52	48	-	98,126	35,115	63,010	-
Plains Elec Gen&Trans Coop Inc																
1986	60	920	4.28	-	4.28	-	11,468	-	55	100	-	*	19,121	18,864	-	257
1987	26	901	3.42	-	3.42	-	11,744	-	23	100	-	*	19,337	19,249	-	89
1988	24	842	3.29	-	3.29	-	16,304	-	20	100	-	*	22,060	21,982	-	78
1989	16	850	3.78	-	3.78	-	17,350	-	13	100	-	*	23,872	23,812	-	60
1990	21	865	3.60	-	3.60	-	15,422	-	18	100	-	*	20,339	20,263	-	76
Platte River Power Authority																
1986	-	-	-	-	-	-	18,501	-	-	100	-	-	19,771	19,771	-	-
1987	-	-	-	-	-	-	20,035	-	-	100	-	-	15,186	15,186	-	-
1988	-	-	-	-	-	-	20,899	-	-	100	-	-	14,739	14,739	-	-
1989	-	-	-	-	-	-	20,324	-	-	100	-	-	14,492	14,492	-	-
1990	-	-	-	-	-	-	19,126	-	-	100	-	-	13,982	13,982	-	-
Portland General Electric Co																
1986	-	-	-	-	-	-	-	1	-	-	100	-	3	-	3	-
1987	-	-	-	-	-	-	6,392	-	-	100	-	-	8,960	8,960	-	-
1988	-	-	-	-	-	-	4,001	-	-	100	-	-	5,559	5,559	-	-
1989	-	-	-	-	-	-	-	72	-	-	100	-	327	-	327	-
1990	-	-	-	-	-	-	16,157	78	-	100	*	-	17,710	17,439	272	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Potomac Edison Co																		
1986	164	36.6	12,536	11.5	0.9	35.49	29.40	31.63	-	-	-	-	-	-	-	5	141,000	21.93
1987	231	58.5	12,554	11.3	1.0	33.51	27.92	31.19	-	-	-	-	-	-	-	5	141,000	23.69
1988	220	52.6	13,195	9.4	1.0	38.01	32.35	35.32	-	-	-	-	-	-	-	6	141,000	20.98
1989	238	44.4	12,910	10.4	1.0	38.95	34.81	36.65	-	-	-	-	-	-	-	6	141,000	23.90
1990	205	53.5	12,893	9.9	1.0	41.25	36.52	39.05	-	-	-	-	-	-	-	6	141,000	31.27
Potomac Electric Power Co																		
1986	5,764	81.4	12,637	11.1	1.5	42.65	39.12	41.99	[2] 3,066	100.0	148,417	1.4	14.67	-	14.67	570	138,337	19.69
1987	6,157	85.2	12,625	11.3	1.5	40.54	37.98	40.16	[2] 1,998	100.0	147,192	1.4	20.39	-	20.39	416	138,424	22.14
1988	6,309	78.5	12,615	11.4	1.6	41.61	37.69	40.77	[2] 3,563	100.0	149,126	1.2	15.43	-	15.43	216	138,615	20.29
1989	6,258	65.1	12,604	11.2	1.6	42.88	40.60	42.08	[2] 5,153	100.0	148,928	1.3	17.79	-	17.79	400	138,368	23.93
1990	7,202	65.2	12,647	11.1	1.6	44.26	42.10	43.51	[2] 3,301	100.0	149,152	1.4	18.87	-	18.87	282	137,526	30.43
Power Authority of State of NY																		
1986	-	-	-	-	-	-	-	-	2,157	-	147,002	.3	-	16.10	16.10	-	-	-
1987	-	-	-	-	-	-	-	-	1,932	-	147,751	.2	-	20.05	20.05	-	-	-
1988	-	-	-	-	-	-	-	-	2,884	29.9	147,380	.3	17.06	15.80	16.18	-	-	-
1989	-	-	-	-	-	-	-	-	1,505	-	147,171	.3	-	17.78	17.78	-	-	-
1990	-	-	-	-	-	-	-	-	1,357	-	148,235	.3	-	25.51	25.51	-	-	-
Public Service Co of Colorado																		
1986	6,171	97.3	9,302	6.1	.4	23.52	26.07	23.59	-	-	-	-	-	-	-	28	137,394	19.07
1987	5,772	95.5	9,399	6.3	.4	23.74	24.62	23.78	-	-	-	-	-	-	-	28	136,759	22.10
1988	6,502	95.9	9,286	6.2	.4	21.69	22.11	21.70	-	-	-	-	-	-	-	9	136,454	23.05
1989	7,230	85.7	9,468	6.3	.4	20.41	24.15	20.94	-	-	-	-	-	-	-	29	136,984	23.40
1990	7,272	88.7	9,397	6.6	.4	21.04	24.30	21.41	-	-	-	-	-	-	-	30	137,023	30.41
Public Service Co of IN Inc																		
1986	11,150	97.7	10,723	10.7	2.4	31.63	31.73	31.63	-	-	-	-	-	-	-	129	137,000	21.21
1987	11,377	96.5	10,818	10.6	2.4	33.28	26.01	33.02	-	-	-	-	-	-	-	142	137,000	23.81
1988	10,796	91.1	10,884	10.2	2.4	33.77	23.92	32.89	-	-	-	-	-	-	-	142	137,000	20.96
1989	10,814	88.9	10,873	10.1	2.3	33.25	24.63	32.30	-	-	-	-	-	-	-	168	137,000	24.43
1990	13,586	81.4	10,882	10.2	2.4	33.12	25.87	31.78	-	-	-	-	-	-	-	134	137,000	29.59
Public Service Co of NH																		
1986	952	90.5	13,443	7.4	2.0	52.85	59.84	53.51	4,646	68.2	154,806	1.8	12.90	11.41	12.43	17	137,561	20.87
1987	1,115	97.2	13,416	7.4	2.2	51.68	44.07	51.47	3,372	94.1	155,870	1.7	16.91	16.90	16.90	12	137,676	23.35
1988	1,262	19.9	13,333	7.1	2.3	53.01	45.99	47.38	5,115	88.3	154,603	1.8	12.11	12.04	12.10	15	138,078	21.31
1989	1,064	17.5	13,359	6.8	2.0	46.00	46.22	46.18	5,082	98.2	155,916	1.9	14.84	13.19	14.81	20	138,179	24.74
1990	1,271	84.2	13,303	6.7	1.8	47.27	48.08	47.39	4,264	100.0	154,436	1.9	14.59	-	14.59	28	137,999	32.98
Public Service Co of NM																		
1986	5,876	100.0	9,456	20.7	.8	25.06	-	25.06	36	84.9	147,165	1.0	10.71	7.25	10.19	51	136,007	21.64
1987	5,037	100.0	9,426	22.1	.8	29.52	-	29.52	26	100.0	145,000	1.0	13.05	-	13.05	44	136,000	25.52
1988	4,890	100.0	9,540	21.3	.7	29.11	-	29.11	[2] 42	100.0	145,000	1.0	10.24	-	10.24	55	136,000	24.09
1989	5,972	100.0	9,636	21.2	.8	28.54	-	28.54	[2] 29	100.0	145,000	1.0	14.68	-	14.68	36	135,059	28.23
1990	5,683	100.0	9,644	22.0	.8	32.87	-	32.87	[2] 13	100.0	145,000	1.0	13.60	-	13.60	42	136,000	35.54
Public Service Co of Oklahoma																		
1986	2,921	100.0	8,352	6.0	.4	32.42	-	32.42	-	-	-	-	-	-	-	-	-	-
1987	2,954	100.0	8,533	6.1	.4	28.19	-	28.19	-	-	-	-	-	-	-	1	139,417	27.92
1988	2,704	99.6	8,714	6.2	.5	28.19	39.20	28.23	-	-	-	-	-	-	-	-	-	-
1989	2,604	95.3	8,893	6.0	.5	29.05	36.46	29.39	-	-	-	-	-	-	-	-	-	-
1990	3,312	95.1	8,939	6.1	.5	29.11	33.99	29.35	-	-	-	-	-	-	-	-	-	-
Public Service Electric&Gas Co																		
1986	1,761	66.0	13,336	7.3	1.0	50.67	44.86	48.70	[2] 5,751	66.8	146,720	.3	14.45	13.93	14.28	15	138,259	18.67
1987	1,811	84.1	13,339	7.5	.9	48.67	44.82	48.06	2,507	67.1	147,241	.3	20.04	19.81	19.96	1	137,258	22.35
1988	1,615	81.9	13,438	6.9	.8	46.27	45.29	46.09	5,223	75.3	147,533	.3	16.25	15.36	16.03	2	139,531	21.94
1989	2,380	72.5	13,420	6.9	.8	46.88	46.88	46.88	[2] 4,771	76.0	147,424	.3	20.06	17.66	19.48	2	138,745	27.57
1990	2,064	87.7	13,567	6.5	.8	48.64	48.90	48.67	1,584	81.6	147,237	.3	21.62	19.60	21.25	1	137,623	34.04

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Potomac Edison Co																
1986	-	-	-	-	-	-	4,107	29	-	99	1	-	5,289	5,182	108	-
1987	-	-	-	-	-	-	5,796	27	-	100	*	-	7,307	7,200	107	-
1988	-	-	-	-	-	-	5,795	36	-	99	1	-	7,883	7,756	126	-
1989	-	-	-	-	-	-	6,154	36	-	99	1	-	8,880	8,735	145	-
1990	-	-	-	-	-	-	5,279	38	-	99	1	-	8,195	7,994	201	-
Potomac Electric Power Co																
1986	799	1,058	2.90	-	2.90	-	145,692	22,421	845	86	13	1	300,595	242,071	56,208	2,316
1987	6,833	1,043	2.80	-	2.80	-	155,473	14,765	7,126	88	8	4	316,354	247,282	49,923	19,150
1988	1,568	1,041	2.42	-	2.42	-	159,168	23,576	1,632	86	13	1	320,347	257,200	59,356	3,791
1989	11,224	1,045	2.63	-	2.63	-	157,745	34,556	11,725	77	17	6	394,128	263,326	101,254	29,547
1990	8,556	1,044	2.44	2.39	2.43	4.0	182,169	22,309	8,934	85	10	4	405,085	313,370	70,894	20,821
Power Authority of State of NY																
1986	9,029	1,036	2.22	5.68	2.22	.1	-	13,317	9,354	-	59	41	54,770	-	34,730	20,040
1987	19,576	1,030	2.66	-	2.66	-	-	11,989	20,161	-	37	63	90,704	-	38,727	51,977
1988	11,447	1,031	2.37	-	2.37	-	-	17,852	11,800	-	60	40	73,835	-	46,663	27,172
1989	18,168	1,030	2.54	-	2.54	-	-	9,303	18,719	-	33	67	72,917	-	26,762	46,155
1990	23,986	1,031	2.86	6.69	2.86	*	-	8,449	24,724	-	25	75	103,243	-	34,622	68,620
Public Service Co of Colorado																
1986	1,657	985	2.85	2.19	2.83	3.9	114,797	161	1,633	98	*	1	150,805	145,588	533	4,684
1987	4,601	984	2.21	2.11	2.18	31.8	108,515	161	4,527	96	*	4	147,937	137,286	619	10,031
1988	4,490	982	2.18	2.16	2.17	43.5	120,760	53	4,411	96	*	4	151,070	141,121	214	9,734
1989	3,947	975	2.01	2.17	2.11	62.3	136,909	167	3,848	97	*	3	160,449	151,439	680	8,330
1990	2,160	983	1.96	2.39	2.04	17.9	136,668	174	2,122	98	*	2	161,010	155,690	919	4,401
Public Service Co of IN Inc																
1986	-	-	-	-	-	-	239,138	743	-	100	*	-	355,416	352,676	2,740	-
1987	-	-	-	-	-	-	246,160	816	-	100	*	-	379,036	375,659	3,376	-
1988	-	-	-	-	-	-	235,004	818	-	100	*	-	358,082	355,101	2,981	-
1989	-	-	-	-	-	-	235,174	966	-	100	*	-	353,403	349,301	4,102	-
1990	-	-	-	-	-	-	295,682	772	-	100	*	-	435,688	431,717	3,971	-
Public Service Co of NH																
1986	-	-	-	-	-	-	25,605	30,307	-	46	54	-	109,050	50,962	58,088	-
1987	-	-	-	-	-	-	29,931	22,148	-	57	43	-	114,706	57,412	57,294	-
1988	-	-	-	-	-	-	33,642	33,299	-	50	50	-	122,003	59,779	62,224	-
1989	-	-	-	-	-	-	28,428	33,394	-	46	54	-	124,911	49,138	75,773	-
1990	-	-	-	-	-	-	33,810	27,822	-	55	45	-	123,356	60,228	63,128	-
Public Service Co of NM																
1986	907	1,138	2.26	-	2.26	-	111,133	510	1,032	99	*	1	150,770	147,261	1,460	2,050
1987	251	1,081	2.36	-	2.36	-	94,959	408	271	99	*	*	150,732	148,681	1,458	593
1988	303	1,062	3.29	-	3.29	-	93,301	572	321	99	1	*	145,095	142,337	1,762	997
1989	438	1,068	3.85	3.83	3.85	27.2	115,090	379	468	99	*	*	173,551	170,434	1,432	1,685
1990	246	1,050	3.20	4.14	3.23	2.7	109,615	321	259	99	*	*	189,271	186,793	1,682	796
Public Service Co of Oklahoma																
1986	68,486	1,049	-	2.86	2.86	100.0	48,790	-	71,814	40	-	60	290,400	94,701	-	195,700
1987	53,843	1,050	-	3.01	3.01	100.0	50,414	4	56,520	47	*	53	245,192	83,285	17	161,890
1988	56,823	1,042	-	3.11	3.11	100.0	47,133	-	59,194	44	-	56	253,156	76,349	-	176,808
1989	58,092	1,051	-	3.05	3.05	100.0	46,317	-	61,060	43	-	57	253,753	76,539	-	177,215
1990	52,985	1,057	-	3.20	3.20	100.0	59,214	-	56,009	51	-	49	266,744	97,200	-	169,543
Public Service Electric&Gas Co																
1986	19,111	1,036	2.62	-	2.62	-	46,963	35,530	19,800	46	35	19	218,128	85,741	82,387	50,000
1987	39,797	1,034	2.64	-	2.64	-	48,321	15,509	41,160	46	15	39	242,016	87,043	50,070	104,904
1988	28,026	1,034	2.32	-	2.32	-	43,400	32,377	28,978	41	31	28	223,109	74,434	83,769	64,907
1989	31,998	1,034	2.47	-	2.47	-	63,889	29,552	33,081	50	23	26	283,629	111,587	92,996	79,047
1990	30,182	1,032	2.19	-	2.19	-	55,995	9,800	31,148	58	10	32	200,352	100,450	33,694	66,209

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Puget Sound Power & Light Co																		
1989	-	-	-	-	-	-	-	-	30	-	150,000	0.0	-	15.98	15.98	-	-	-
1990	-	-	-	-	-	-	-	-	*	-	156,000	2.0	-	19.98	19.98	-	-	-
Richmond City of																		
1986	192	89.2	11,099	10.7	2.2	39.69	30.60	38.70	-	-	-	-	-	-	-	-	-	-
1987	192	88.3	11,271	11.2	2.5	38.27	29.88	37.29	-	-	-	-	-	-	-	-	-	-
1988	221	83.3	11,441	11.6	2.5	38.35	30.40	37.02	-	-	-	-	-	-	-	-	-	-
1989	225	84.1	11,189	11.3	2.5	37.30	30.28	36.19	-	-	-	-	-	-	-	-	-	-
1990	235	80.1	11,344	10.9	2.6	37.32	31.02	36.07	-	-	-	-	-	-	-	-	-	-
Rochester City of																		
1986	113	100.0	12,250	7.1	1.6	51.64	-	51.64	-	-	-	-	-	-	-	-	-	-
1987	122	100.0	12,257	7.1	1.7	47.21	-	47.21	-	-	-	-	-	-	-	-	-	-
1988	107	100.0	12,148	6.9	1.6	47.86	-	47.86	-	-	-	-	-	-	-	-	-	-
1989	57	100.0	12,149	7.1	1.6	47.19	-	47.19	-	-	-	-	-	-	-	-	-	-
1990	65	98.5	12,073	7.4	1.6	42.40	24.04	42.12	-	-	-	-	-	-	-	-	-	-
Rochester Gas & Electric Corp																		
1986	548	94.3	13,087	7.9	2.3	46.28	43.25	46.11	-	-	-	-	-	-	-	-	-	-
1987	533	85.6	13,232	7.0	2.3	45.61	41.30	44.99	-	-	-	-	-	-	-	-	-	-
1988	623	87.1	13,158	7.2	1.9	43.88	41.61	43.59	-	-	-	-	-	-	-	-	-	-
1989	853	58.5	13,118	7.2	2.1	42.38	39.79	41.31	-	-	-	-	-	-	-	-	-	-
1990	813	75.3	13,182	7.2	2.1	42.62	41.54	42.36	-	-	-	-	-	-	-	-	-	-
Ruston City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S Mississippi Elec Pwr Assn																		
1986	823	38.0	12,536	8.2	.9	56.00	52.27	53.69	-	-	-	-	-	-	-	8	140,009	20.52
1987	795	-	12,561	8.4	.9	-	55.84	55.84	-	-	-	-	-	-	-	7	134,499	22.65
1988	750	83.2	12,550	8.4	.9	48.94	57.19	50.33	[2] 0	-	134,395	1.7	-	4.20	4.20	10	140,503	19.82
1989	731	100.0	12,430	8.9	.9	49.52	-	49.52	-	-	-	-	-	-	-	10	138,035	21.62
1990	775	100.0	12,426	9.0	1.0	50.57	-	50.57	-	-	-	-	-	-	-	7	139,484	22.64
Salt River Proj Ag I & P Dist																		
1986	8,620	100.0	10,873	10.0	.5	25.59	-	25.59	35	-	150,554	.8	-	22.22	22.22	153	138,693	21.68
1987	8,709	98.9	10,884	10.1	.5	24.66	31.56	24.74	11	-	140,397	.8	-	13.21	13.21	216	138,692	25.88
1988	9,103	100.0	10,916	9.6	.5	26.89	-	26.89	21	-	148,483	.9	-	15.40	15.40	158	139,620	25.05
1989	9,198	100.0	10,890	9.3	.5	25.21	-	25.21	69	-	148,842	1.0	-	16.99	16.99	126	139,031	26.39
1990	9,314	100.0	10,777	9.9	.5	26.10	-	26.10	96	-	147,745	.9	-	22.08	22.08	84	139,124	28.27
San Antonio City of																		
1986	2,813	92.9	8,273	5.9	.4	28.71	26.54	28.56	-	-	-	-	-	-	-	566	139,807	15.56
1987	2,657	100.0	8,308	5.7	.4	27.67	-	27.67	-	-	-	-	-	-	-	-	-	-
1988	3,180	100.0	8,445	5.4	.4	24.57	-	24.57	-	-	-	-	-	-	-	-	-	-
1989	3,148	96.8	8,344	5.6	.3	22.82	19.48	22.71	-	-	-	-	-	-	-	-	-	-
1990	2,655	100.0	8,376	6.1	.4	21.19	-	21.19	-	-	-	-	-	-	-	-	-	-
San Diego Gas & Electric Co																		
1986	-	-	-	-	-	-	-	-	3,402	-	146,909	.3	-	13.44	13.44	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	2,079	2.4	146,623	.3	16.58	15.86	15.87	-	-	-
1989	-	-	-	-	-	-	-	-	1,458	-	146,603	.4	-	19.26	19.26	7	140,193	21.19
1990	-	-	-	-	-	-	-	-	1,627	-	147,107	.4	-	21.49	21.49	-	-	-
San Miguel Electric Coop Inc																		
1986	2,365	100.0	5,362	24.8	1.8	12.78	-	12.78	-	-	-	-	-	-	-	51	143,507	18.61
1987	2,525	100.0	5,369	24.8	1.7	9.22	-	9.22	-	-	-	-	-	-	-	7	139,489	21.00
1988	3,163	100.0	5,198	26.2	1.7	8.08	-	8.08	-	-	-	-	-	-	-	10	139,177	17.39
1989	2,984	100.0	5,366	25.0	1.7	9.11	-	9.11	-	-	-	-	-	-	-	*	139,113	20.13
1990	3,015	100.0	5,521	23.3	1.9	9.63	-	9.63	-	-	-	-	-	-	-	*	138,138	24.66

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Puget Sound Power & Light Co																
1989	-	-	-	-	-	-	-	189	-	-	100	-	480	-	480	-
1990	-	-	-	-	-	-	-	2	-	-	100	-	8	-	8	-
Richmond City of																
1986	-	-	-	-	-	-	4,256	-	-	100	-	-	7,420	7,420	-	-
1987	-	-	-	-	-	-	4,335	-	-	100	-	-	7,170	7,170	-	-
1988	-	-	-	-	-	-	5,068	-	-	100	-	-	8,200	8,200	-	-
1989	-	-	-	-	-	-	5,030	-	-	100	-	-	8,133	8,133	-	-
1990	-	-	-	-	-	-	5,332	-	-	100	-	-	8,475	8,475	-	-
Rochester City of																
1986	75	995	-	4.66	4.66	100.0	2,761	-	75	97	-	3	6,170	5,820	-	350
1987	1,361	994	1.92	3.14	1.93	1.3	2,993	-	1,354	69	-	31	8,396	5,764	-	2,632
1988	1,109	1,003	1.70	-	1.70	-	2,592	-	1,112	70	-	30	6,988	5,106	-	1,882
1989	591	1,008	2.07	-	2.07	-	1,385	-	595	70	-	30	3,914	2,690	-	1,224
1990	735	1,004	1.91	-	1.91	-	1,579	-	737	68	-	32	4,159	2,755	-	1,404
Rochester Gas & Electric Corp																
1986	112	1,027	-	4.21	4.21	100.0	14,338	-	115	99	-	1	25,732	25,261	-	471
1987	-	-	-	-	-	-	14,094	-	-	100	-	-	23,963	23,963	-	-
1988	-	-	-	-	-	-	16,408	-	-	100	-	-	27,178	27,178	-	-
1989	-	-	-	-	-	-	22,374	-	-	100	-	-	35,227	35,227	-	-
1990	-	-	-	-	-	-	21,436	-	-	100	-	-	34,441	34,441	-	-
Ruston City of																
1986	1,489	1,035	-	2.60	2.60	100.0	-	-	1,541	-	-	100	3,871	-	-	3,871
1987	1,986	1,045	-	1.98	1.98	100.0	-	-	2,075	-	-	100	3,926	-	-	3,926
1988	2,017	1,047	-	1.92	1.92	100.0	-	-	2,110	-	-	100	3,874	-	-	3,874
1989	1,596	1,054	1.96	2.11	2.03	46.7	-	-	1,683	-	-	100	3,243	-	-	3,243
1990	1,836	1,057	1.89	2.26	2.04	41.4	-	-	1,940	-	-	100	3,743	-	-	3,743
S Mississippi Elec Pwr Assn																
1986	4,531	1,042	1.87	2.27	2.12	62.9	20,640	45	4,721	81	*	19	53,963	44,197	156	9,610
1987	5,333	1,028	1.72	-	1.72	-	19,979	40	5,483	78	*	21	53,724	44,409	161	9,154
1988	4,312	1,013	1.79	-	1.79	-	18,817	61	4,366	81	*	19	45,654	37,730	200	7,725
1989	6,662	1,012	1.83	-	1.83	-	18,185	56	6,743	73	*	27	48,647	36,227	208	12,212
1990	6,436	1,008	1.74	-	1.74	-	19,268	42	6,485	75	*	25	50,592	39,208	161	11,223
Salt River Proj Ag I & P Dist																
1986	5,305	1,061	2.55	-	2.55	-	187,450	1,111	5,630	97	1	3	238,164	220,555	4,090	13,520
1987	4,255	1,044	2.63	-	2.63	-	189,572	1,320	4,440	97	1	2	232,316	215,418	5,724	11,174
1988	4,671	1,045	2.24	-	2.24	-	198,722	1,059	4,879	97	1	2	259,534	244,797	4,288	10,449
1989	13,847	1,039	2.32	-	2.32	-	200,339	1,167	14,386	93	1	7	268,522	231,903	4,499	32,121
1990	4,581	1,038	2.38	-	2.38	-	200,762	1,085	4,755	97	1	2	258,531	243,126	4,487	10,918
San Antonio City of																
1986	63,554	1,029	1.75	3.61	2.22	25.2	46,536	3,322	65,404	40	3	57	230,314	80,319	8,801	141,194
1987	67,680	1,024	1.71	3.92	1.85	6.4	44,149	-	69,281	39	-	61	198,668	73,520	-	125,148
1988	52,872	1,023	1.88	4.39	1.94	2.4	53,704	-	54,066	50	-	50	180,684	78,124	-	102,560
1989	44,017	1,022	1.96	-	1.96	-	52,542	-	44,996	54	-	46	157,885	71,503	-	86,382
1990	39,724	1,020	1.91	1.71	1.91	2.3	44,486	-	40,520	52	-	48	132,110	56,266	-	75,844
San Diego Gas & Electric Co																
1986	25,983	1,035	2.81	-	2.81	-	-	20,991	26,902	-	44	56	118,633	-	45,723	72,910
1987	45,397	1,034	2.11	-	2.11	-	-	-	46,959	-	-	100	95,941	-	-	95,941
1988	32,076	1,033	2.32	-	2.32	-	-	12,803	33,148	-	28	72	107,505	-	33,004	74,501
1989	40,057	1,036	2.49	-	2.49	-	-	9,019	41,485	-	18	82	128,122	-	28,234	99,888
1990	33,992	1,032	2.63	-	2.63	-	-	10,052	35,085	-	22	78	124,518	-	34,967	89,551
San Miguel Electric Coop Inc																
1986	-	-	-	-	-	-	25,360	308	-	99	1	-	31,176	30,226	950	-
1987	-	-	-	-	-	-	27,109	42	-	100	*	-	23,417	23,265	152	-
1988	-	-	-	-	-	-	32,879	61	-	100	*	-	25,748	25,568	180	-
1989	-	-	-	-	-	-	32,018	1	-	100	*	-	27,171	27,168	3	-
1990	-	-	-	-	-	-	33,293	1	-	100	*	-	29,026	29,022	4	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Savannah Electric & Power Co																		
1986	858	-	12,933	8.8	0.9	-	43.52	43.52	190	-	147,867	2.4	-	11.73	11.73	5	135,952	21.58
1987	777	-	13,026	8.7	.9	-	42.81	42.81	141	-	146,685	2.5	-	19.10	19.10	2	135,879	23.97
1988	870	-	12,951	7.9	.8	-	44.07	44.07	67	-	147,194	2.5	-	14.44	14.44	4	135,808	21.71
1989	962	-	12,650	8.9	1.0	-	44.38	44.38	15	-	146,994	2.2	-	16.98	16.98	4	137,893	25.25
1990	790	-	12,675	9.2	1.0	-	43.00	43.00	43	20.9	149,113	2.3	13.86	13.51	13.58	4	138,000	35.09
Seminole Electric Coop Inc																		
1986	2,952	84.8	12,076	8.7	2.7	51.25	40.48	49.61	-	-	-	-	-	-	-	42	138,853	20.99
1987	3,052	80.6	12,132	8.6	2.9	51.56	37.32	48.80	-	-	-	-	-	-	-	42	139,508	22.58
1988	2,283	86.3	12,007	8.3	2.9	48.76	36.94	47.15	-	-	-	-	-	-	-	28	138,490	22.05
1989	3,029	80.2	11,998	8.8	2.9	48.58	38.77	46.63	-	-	-	-	-	-	-	43	136,831	25.08
1990	3,144	89.8	12,118	8.7	2.9	50.21	44.13	49.59	-	-	-	-	-	-	-	42	141,779	31.19
Sierra Pacific Power Co																		
1986	1,071	100.0	11,166	8.2	.3	41.90	-	41.90	286	-	148,863	.4	-	12.36	12.36	12	138,500	22.50
1987	1,103	100.0	10,964	8.6	.4	40.63	-	40.63	408	-	148,800	.7	-	15.04	15.04	16	138,500	24.95
1988	1,430	100.0	10,589	8.5	.4	39.96	-	39.96	822	-	148,800	.8	-	15.35	15.35	16	138,500	28.52
1989	1,427	100.0	10,672	8.5	.4	40.29	-	40.29	441	-	148,800	.8	-	17.23	17.23	11	138,500	28.85
1990	1,420	100.0	10,575	9.0	.4	40.83	-	40.83	62	-	148,800	.8	-	19.13	19.13	13	138,500	35.96
Sikeston City of																		
1986	304	100.0	11,198	11.5	2.6	28.63	-	28.63	-	-	-	-	-	-	-	6	141,000	35.48
1987	576	100.0	11,449	10.5	2.2	34.27	-	34.27	-	-	-	-	-	-	-	4	141,000	21.54
1988	604	100.0	11,413	11.3	2.5	35.66	-	35.66	-	-	-	-	-	-	-	3	141,000	19.74
1989	557	100.0	11,403	12.1	2.6	35.33	-	35.33	-	-	-	-	-	-	-	11	141,000	26.73
1990	650	57.6	11,351	12.0	2.6	39.99	25.73	33.94	-	-	-	-	-	-	-	3	141,000	30.26
South Carolina Electric&Gas Co																		
1986	3,616	89.1	12,929	8.9	1.3	47.40	39.79	46.57	-	-	-	-	-	-	-	64	138,000	22.25
1987	4,779	71.6	12,878	8.9	1.3	46.33	38.04	43.98	-	-	-	-	-	-	-	65	138,000	23.33
1988	4,374	70.1	12,897	9.0	1.2	46.08	40.17	44.31	-	-	-	-	-	-	-	72	138,000	22.23
1989	4,403	76.7	12,884	8.6	1.1	42.89	39.80	42.17	-	-	-	-	-	-	-	68	138,000	24.30
1990	4,501	78.7	12,811	8.8	1.2	43.13	41.26	42.73	-	-	-	-	-	-	-	96	138,000	36.28
South Carolina Pub Serv Auth																		
1986	3,454	85.2	12,416	9.9	1.2	47.38	40.92	46.42	-	-	-	-	-	-	-	22	140,000	20.46
1987	4,128	72.7	12,391	10.1	1.2	47.41	36.97	44.56	-	-	-	-	-	-	-	37	140,000	23.34
1988	4,211	69.5	12,452	9.8	1.2	48.68	36.58	44.99	-	-	-	-	-	-	-	18	140,000	21.21
1989	4,913	57.3	12,415	9.5	1.2	48.00	38.91	44.12	-	-	-	-	-	-	-	-	-	-
1990	4,368	72.2	12,506	9.6	1.2	46.76	38.86	44.56	-	-	-	-	-	-	-	-	-	-
Southern California Edison Co																		
1986	4,756	100.0	10,998	9.8	.6	22.43	-	22.43	2,543	100.0	146,405	.2	31.25	-	31.25	-	-	-
1987	4,293	100.0	10,984	10.0	.5	22.96	-	22.96	1,061	100.0	147,115	.3	17.08	-	17.08	-	-	-
1988	5,013	100.0	11,005	9.9	.5	22.49	-	22.49	5,248	100.0	145,695	.2	16.51	-	16.51	-	-	-
1989	4,137	100.0	10,997	9.9	.5	27.15	-	27.15	3,138	100.0	145,628	.2	19.61	-	19.61	2	140,476	22.23
1990	4,171	100.0	10,959	10.1	.5	26.43	-	26.43	5,743	100.0	145,289	.3	26.40	-	26.40	-	-	-
Southern Illinois Power Coop																		
1986	737	54.8	10,633	18.5	3.2	26.61	12.53	20.25	-	-	-	-	-	-	-	-	-	-
1987	655	62.0	10,950	17.3	3.3	25.94	12.19	20.72	-	-	-	-	-	-	-	-	-	-
1988	700	37.7	10,476	18.8	3.2	19.89	14.42	16.48	-	-	-	-	-	-	-	-	-	-
1989	516	48.3	10,329	20.0	3.3	21.25	12.44	16.69	-	-	-	-	-	-	-	6	135,738	25.29
1990	739	30.6	10,435	19.2	3.1	24.17	16.86	19.10	-	-	-	-	-	-	-	9	135,804	31.91
Southern Indiana Gas & Elec Co																		
1986	2,300	97.5	11,219	9.1	3.4	33.87	25.35	33.65	-	-	-	-	-	-	-	15	139,000	24.05
1987	2,296	97.4	11,247	8.9	3.3	33.18	23.39	32.93	-	-	-	-	-	-	-	12	139,000	24.94
1988	2,241	100.0	11,245	8.6	3.3	32.70	-	32.70	-	-	-	-	-	-	-	13	139,000	23.12
1989	2,557	96.6	11,266	8.8	3.3	32.27	24.40	32.00	-	-	-	-	-	-	-	14	139,000	26.80
1990	2,630	91.7	11,293	8.2	3.0	34.15	25.29	33.41	-	-	-	-	-	-	-	15	139,000	32.51

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Savannah Electric & Power Co																
1986	681	1,023	4.21	-	4.21	-	22,201	1,209	696	92	5	3	42,560	37,356	2,341	2,862
1987	497	1,023	3.96	-	3.96	-	20,244	882	508	94	4	2	37,984	33,266	2,750	1,968
1988	1,186	1,022	2.71	-	2.71	-	22,543	435	1,212	93	2	5	42,617	38,358	1,045	3,213
1989	403	1,022	3.22	-	3.22	-	24,336	110	412	98	*	2	44,326	42,690	337	1,300
1990	1,165	1,023	3.10	-	3.10	-	20,017	289	1,192	93	1	6	38,275	33,955	715	3,605
Seminole Electric Coop Inc																
1986	-	-	-	-	-	-	71,296	245	-	100	*	-	147,341	146,459	882	-
1987	-	-	-	-	-	-	74,055	246	-	100	*	-	149,883	148,935	948	-
1988	-	-	-	-	-	-	54,826	163	-	100	*	-	108,253	107,635	617	-
1989	-	-	-	-	-	-	72,685	247	-	100	*	-	142,330	141,252	1,079	-
1990	-	-	-	-	-	-	76,197	250	-	100	*	-	157,234	155,925	1,310	-
Sierra Pacific Power Co																
1986	1,423	1,029	3.70	-	3.70	-	23,928	1,860	1,463	88	7	5	53,967	44,897	3,811	5,259
1987	1,490	1,015	2.93	-	2.93	-	24,181	2,645	1,513	85	9	5	55,725	44,808	6,545	4,372
1988	4,225	1,017	2.92	-	2.92	-	30,283	5,230	4,298	76	13	11	82,547	57,140	13,075	12,332
1989	15,375	1,028	1.85	-	1.85	-	30,457	2,820	15,810	62	6	32	93,890	57,490	7,918	28,483
1990	16,483	1,030	1.58	2.34	1.62	5.1	30,033	463	16,983	63	1	36	86,330	57,972	1,654	26,704
Sikeston City of																
1986	-	-	-	-	-	-	6,799	38	-	99	1	-	8,919	8,691	228	-
1987	-	-	-	-	-	-	13,192	24	-	100	*	-	19,830	19,742	88	-
1988	-	-	-	-	-	-	13,789	20	-	100	*	-	21,612	21,544	68	-
1989	-	-	-	-	-	-	12,708	67	-	99	1	-	19,986	19,685	302	-
1990	-	-	-	-	-	-	14,760	16	-	100	*	-	22,150	22,069	81	-
South Carolina Electric&Gas Co																
1986	951	1,022	2.00	-	2.00	-	93,515	369	972	99	*	1	171,740	168,416	1,418	1,906
1987	173	1,027	3.57	-	3.57	-	123,082	376	178	100	*	*	212,290	210,158	1,514	618
1988	1,631	1,032	1.83	-	1.83	-	112,818	420	1,683	98	*	1	198,405	193,813	1,612	2,980
1989	1,881	1,023	2.27	-	2.27	-	113,457	395	1,924	98	*	2	191,586	185,656	1,657	4,272
1990	5,877	1,023	1.76	-	1.76	-	115,342	559	6,013	95	*	5	206,176	192,350	3,497	10,329
South Carolina Pub Serv Auth																
1986	-	-	-	-	-	-	85,766	131	-	100	*	-	160,792	160,336	455	-
1987	-	-	-	-	-	-	102,287	216	-	100	*	-	184,783	183,927	856	-
1988	-	-	-	-	-	-	104,870	104	-	100	*	-	189,830	189,454	376	-
1989	-	-	-	-	-	-	121,993	-	-	100	-	-	216,782	216,782	-	-
1990	-	-	-	-	-	-	109,261	-	-	100	-	-	194,651	194,651	-	-
Southern California Edison Co																
1986	174,300	1,050	2.71	-	2.71	-	104,619	15,636	183,099	34	5	60	659,047	106,696	79,474	472,878
1987	251,096	1,045	2.65	-	2.65	-	94,310	6,555	262,312	26	2	72	783,081	98,576	18,121	666,384
1988	153,388	1,046	3.44	-	3.44	-	110,341	32,111	160,501	36	11	53	727,356	112,742	86,620	527,994
1989	155,625	1,048	3.47	-	3.47	-	90,999	19,203	163,078	33	7	60	714,365	112,334	61,571	540,459
1990	118,647	1,041	3.10	-	3.10	-	91,422	35,046	123,518	37	14	49	630,191	110,261	151,599	368,331
Southern Illinois Power Coop																
1986	-	-	-	-	-	-	15,673	-	-	100	-	-	14,922	14,922	-	-
1987	-	-	-	-	-	-	14,345	-	-	100	-	-	13,570	13,570	-	-
1988	-	-	-	-	-	-	14,666	-	-	100	-	-	11,539	11,539	-	-
1989	-	-	-	-	-	-	10,659	34	-	100	*	-	8,763	8,611	152	-
1990	-	-	-	-	-	-	15,424	51	-	100	*	-	14,398	14,111	287	-
Southern Indiana Gas & Elec Co																
1986	22	1,026	2.89	-	2.89	-	51,598	88	22	100	*	*	77,817	77,393	362	62
1987	28	1,025	2.77	-	2.77	-	51,655	69	28	100	*	*	75,995	75,625	293	77
1988	30	1,023	2.95	-	2.95	-	50,390	77	31	100	*	*	73,654	73,261	305	88
1989	52	1,025	2.78	-	2.78	-	57,624	81	53	100	*	*	82,350	81,834	372	144
1990	38	1,025	3.07	-	3.07	-	59,392	90	39	100	*	*	88,482	87,866	501	115

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Southwestern Electric Power Co																		
1986	9,244	100.0	7,939	6.2	0.6	26.33	-	26.33	-	-	-	-	-	-	-	37	140,000	17.13
1987	9,464	100.0	7,927	6.5	.7	25.91	-	25.91	-	-	-	-	-	-	-	41	140,000	22.62
1988	9,073	100.0	8,016	6.3	.6	28.39	-	28.39	-	-	-	-	-	-	-	32	140,000	27.89
1989	9,753	100.0	7,923	6.6	.7	28.10	-	28.10	-	-	-	-	-	-	-	34	140,000	23.02
1990	9,450	100.0	7,871	6.7	.8	27.23	-	27.23	-	-	-	-	-	-	-	24	140,000	25.03
Southwestern Public Service Co																		
1986	6,803	100.0	8,857	4.9	.4	29.78	-	29.78	-	-	-	-	-	-	-	-	-	-
1987	7,201	93.7	8,837	5.0	.4	31.04	18.56	30.26	-	-	-	-	-	-	-	-	-	-
1988	7,912	88.4	8,777	5.0	.3	30.07	18.66	28.74	-	-	-	-	-	-	-	2	139,000	20.97
1989	8,148	89.1	8,753	5.2	.4	29.98	19.14	28.80	-	-	-	-	-	-	-	22	135,364	21.76
1990	8,266	93.9	8,750	5.2	.4	30.75	19.13	30.03	-	-	-	-	-	-	-	2	139,000	26.12
Springfield City of (MO)																		
1986	716	100.0	12,694	11.0	4.0	30.45	-	30.45	-	-	-	-	-	-	-	-	-	-
1987	644	100.0	12,407	10.5	4.1	29.25	-	29.25	-	-	-	-	-	-	-	-	-	-
1988	815	100.0	12,135	10.4	3.5	30.15	-	30.15	-	-	-	-	-	-	-	-	-	-
1989	750	100.0	11,727	9.4	2.6	29.64	-	29.64	-	-	-	-	-	-	-	-	-	-
1990	861	100.0	11,670	8.2	2.3	31.19	-	31.19	-	-	-	-	-	-	-	-	-	-
Springfield City of (IL)																		
1986	788	100.0	10,344	9.2	2.9	34.00	-	34.00	-	-	-	-	-	-	-	-	-	-
1987	840	100.0	10,404	9.4	2.9	32.99	-	32.99	-	-	-	-	-	-	-	-	-	-
1988	895	100.0	10,361	9.2	3.0	33.63	-	33.63	-	-	-	-	-	-	-	-	-	-
1989	907	100.0	10,377	9.1	2.9	26.74	-	26.74	-	-	-	-	-	-	-	-	-	-
1990	922	100.0	10,399	9.3	2.9	27.81	-	27.81	-	-	-	-	-	-	-	-	-	-
St Joseph Light & Power Co																		
1986	107	-	12,163	16.1	3.7	-	34.97	34.97	-	-	-	-	-	-	-	-	-	-
1987	111	-	12,164	14.9	3.6	-	33.36	33.36	39	-	154,599	1.8	-	15.17	15.17	-	-	-
1988	183	-	12,463	12.4	3.8	-	33.50	33.50	45	-	152,578	1.7	-	11.09	11.09	9	138,969	20.83
1989	180	-	12,250	12.8	3.2	-	33.45	33.45	66	-	153,415	2.6	-	13.64	13.64	2	137,613	21.94
1990	172	-	11,622	12.1	3.2	-	30.92	30.92	34	-	154,611	2.6	-	11.66	11.66	-	-	-
Sunflower Electric Power Corp																		
1986	795	100.0	8,319	5.5	.4	24.18	-	24.18	-	-	-	-	-	-	-	-	-	-
1987	902	100.0	8,282	5.6	.4	17.47	-	17.47	-	-	-	-	-	-	-	-	-	-
1988	1,000	43.0	8,345	5.4	.4	18.21	15.03	16.39	-	-	-	-	-	-	-	-	-	-
1989	1,150	49.5	8,343	4.9	.3	16.26	14.76	15.51	-	-	-	-	-	-	-	-	-	-
1990	1,052	100.0	8,478	5.0	.3	16.50	-	16.50	-	-	-	-	-	-	-	-	-	-
Tallahassee City of																		
1986	-	-	-	-	-	-	-	-	430	100.0	151,282	2.1	11.62	-	11.62	-	-	-
1987	-	-	-	-	-	-	-	-	67	100.0	151,787	1.6	18.42	-	18.42	-	-	-
1988	-	-	-	-	-	-	-	-	223	86.4	151,577	1.8	12.77	11.90	12.65	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tampa Electric Co																		
1986	5,632	82.1	12,111	8.1	2.2	47.74	37.56	45.91	-	-	-	-	-	-	-	224	138,278	18.94
1987	6,947	75.1	12,266	8.0	2.1	47.55	35.15	44.46	-	-	-	-	-	-	-	186	138,514	22.70
1988	6,749	81.9	12,282	7.8	2.2	46.26	29.82	43.28	-	-	-	-	-	-	-	101	138,982	20.44
1989	6,674	69.3	12,378	7.7	2.1	47.72	31.69	42.80	-	-	-	-	-	-	-	233	138,314	25.78
1990	6,650	73.5	12,266	7.8	2.2	48.93	31.96	44.44	205	100.0	151,161	1.0	26.04	-	26.04	159	137,945	30.48
Taunton City of																		
1986	-	-	-	-	-	-	-	-	199	100.0	150,313	1.6	16.84	-	16.84	-	-	-
1987	-	-	-	-	-	-	-	-	397	100.0	148,796	1.9	18.50	-	18.50	-	-	-
1988	-	-	-	-	-	-	-	-	319	100.0	148,907	1.8	14.82	-	14.82	-	-	-
1989	-	-	-	-	-	-	-	-	345	100.0	149,698	1.5	16.89	-	16.89	-	-	-
1990	-	-	-	-	-	-	-	-	154	100.0	150,194	1.3	20.45	-	20.45	-	-	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Southwestern Electric Power Co																
1986	23,283	1,013	-	2.79	2.79	100.0	146,785	218	23,577	86	*	14	308,905	243,356	634	64,916
1987	19,404	961	1.70	2.34	2.14	68.6	150,036	241	18,649	89	*	11	287,651	245,193	927	41,531
1988	21,894	972	1.96	2.52	2.29	59.1	145,452	188	21,274	87	*	13	308,685	257,547	893	50,245
1989	16,402	962	2.02	2.34	2.18	51.3	154,539	200	15,785	91	*	9	310,661	274,044	783	35,834
1990	16,604	1,002	1.93	3.49	2.72	50.0	148,758	141	16,634	90	*	10	302,996	257,312	601	45,084
Southwestern Public Service Co																
1986	27,929	1,024	3.26	3.49	3.45	82.8	120,508	-	28,587	81	-	19	298,887	202,607	-	96,280
1987	25,594	1,012	1.69	2.45	2.30	81.0	127,256	-	25,897	83	-	17	276,836	217,859	-	58,977
1988	27,588	1,012	1.75	2.13	2.03	73.2	138,894	12	27,909	83	*	17	283,322	227,411	42	55,869
1989	35,389	1,021	1.79	2.33	2.07	51.9	142,636	125	36,118	80	*	20	308,468	234,627	479	73,362
1990	39,556	1,027	1.74	2.07	1.95	64.4	144,659	12	40,615	78	*	22	325,519	248,267	52	77,200
Springfield City of (MO)																
1986	111	1,021	2.62	-	2.62	-	18,191	-	113	99	-	1	22,110	21,821	-	290
1987	153	1,007	3.05	-	3.05	-	15,983	-	154	99	-	1	19,308	18,842	-	465
1988	279	1,000	2.70	-	2.70	-	19,782	-	279	99	-	1	25,329	24,575	-	754
1989	148	1,005	1.92	-	1.92	-	17,589	-	149	99	-	1	22,513	22,229	-	284
1990	1,675	1,021	1.47	-	1.47	-	20,108	-	1,711	92	-	8	29,335	26,869	-	2,465
Springfield City of (IL)																
1986	-	-	-	-	-	-	16,294	-	-	100	-	-	26,782	26,782	-	-
1987	-	-	-	-	-	-	17,486	-	-	100	-	-	27,722	27,722	-	-
1988	-	-	-	-	-	-	18,546	-	-	100	-	-	30,099	30,099	-	-
1989	-	-	-	-	-	-	18,820	-	-	100	-	-	24,247	24,247	-	-
1990	-	-	-	-	-	-	19,175	-	-	100	-	-	25,641	25,641	-	-
St Joseph Light & Power Co																
1986	175	969	2.61	-	2.61	-	2,606	-	169	94	-	6	4,201	3,745	-	456
1987	320	980	2.78	-	2.78	-	2,708	255	313	83	8	10	5,197	3,713	595	890
1988	176	983	2.56	-	2.56	-	4,563	342	173	90	7	3	7,269	6,131	687	451
1989	194	1,030	2.67	-	2.67	-	4,400	434	199	87	9	4	7,459	6,008	935	516
1990	366	1,008	1.89	-	1.89	-	3,998	223	369	87	5	8	6,410	5,318	400	692
Sunflower Electric Power Corp																
1986	64	760	-	1.39	1.39	100.0	13,223	-	49	100	-	*	19,309	19,220	-	89
1987	92	762	-	1.39	1.39	100.0	14,943	-	70	100	-	*	15,885	15,757	-	127
1988	113	762	-	1.39	1.39	100.0	16,694	-	86	99	-	1	16,554	16,398	-	156
1989	88	774	-	1.20	1.20	100.0	19,193	-	68	100	-	*	17,941	17,835	-	106
1990	104	869	.98	1.63	1.60	95.7	17,831	-	91	99	-	1	17,522	17,356	-	166
Tallahassee City of																
1986	12,381	1,035	2.29	-	2.29	-	-	2,730	12,819	-	18	82	33,303	-	4,993	28,311
1987	11,685	1,037	2.80	-	2.80	-	-	428	12,113	-	3	97	34,012	-	1,238	32,774
1988	13,049	1,037	2.33	-	2.33	-	-	1,419	13,532	-	9	91	33,244	-	2,819	30,424
1989	14,460	1,041	2.65	-	2.65	-	-	-	15,047	-	-	100	38,271	-	-	38,271
1990	13,166	1,044	2.39	-	2.39	-	-	-	13,744	-	-	100	31,441	-	-	31,441
Tampa Electric Co																
1986	-	-	-	-	-	-	136,411	1,303	-	99	1	-	262,829	258,577	4,251	-
1987	-	-	-	-	-	-	170,437	1,083	-	99	1	-	313,100	308,875	4,225	-
1988	-	-	-	-	-	-	165,775	589	-	100	*	-	294,156	292,095	2,061	-
1989	-	-	-	-	-	-	165,207	1,356	-	99	1	-	291,665	285,648	6,018	-
1990	-	-	-	-	-	-	163,133	2,222	-	99	1	-	305,701	295,520	10,180	-
Taunton City of																
1986	-	-	-	-	-	-	-	1,259	-	-	100	-	3,360	-	3,360	-
1987	165	1,031	2.93	-	2.93	-	-	2,482	170	-	94	6	7,834	-	7,349	485
1988	960	1,031	3.15	2.36	2.36	99.6	-	1,994	990	-	67	33	6,994	-	4,726	2,268
1989	1,168	1,031	-	3.00	3.00	100.0	-	2,170	1,204	-	64	36	9,327	-	5,828	3,499
1990	1,251	1,031	2.81	-	2.81	-	-	973	1,290	-	43	57	6,674	-	3,154	3,520

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Tennessee Valley Authority																		
1986	36,606	74.0	11,810	10.8	2.2	34.79	28.73	33.21	-	-	-	-	-	-	-	233	137,946	20.18
1987	35,639	69.4	11,775	11.2	2.4	32.95	29.25	31.82	-	-	-	-	-	-	-	218	138,122	23.35
1988	32,774	83.6	11,826	11.1	2.4	32.34	25.46	31.21	-	-	-	-	-	-	-	200	138,030	21.23
1989	33,474	76.0	11,679	11.4	2.6	31.31	25.99	30.04	-	-	-	-	-	-	-	195	137,884	23.90
1990	36,879	74.3	11,757	11.0	2.4	30.22	29.16	29.94	-	-	-	-	-	-	-	189	138,264	32.78
Texas Municipal Power Agency																		
1986	2,963	90.6	4,746	24.9	.9	14.62	14.38	14.60	-	-	-	-	-	-	-	5	141,000	17.60
1987	3,282	99.3	4,778	24.8	1.0	13.81	26.03	13.89	-	-	-	-	-	-	-	12	141,000	21.89
1988	3,445	98.0	4,747	25.0	1.1	13.17	23.49	13.37	-	-	-	-	-	-	-	5	141,000	21.22
1989	3,628	100.0	4,595	26.4	1.3	13.38	-	13.38	-	-	-	-	-	-	-	11	141,000	28.38
1990	3,623	97.9	4,740	26.3	1.4	14.19	17.80	14.26	-	-	-	-	-	-	-	2	139,513	20.56
Texas New Mexico Power Co																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	565	100.0	6,821	15.2	1.0	18.39	-	18.39	-	-	-	-	-	-	-	-	-	-
Texas Utilities Electric Co																		
1986	30,408	100.0	6,476	14.6	.7	12.59	-	12.59	[2] 45	-	148,000	0.5	-	29.88	29.88	161	138,000	25.12
1987	29,026	100.0	6,393	15.2	.7	13.54	-	13.54	[2] 8	-	143,294	.5	-	27.97	27.97	237	138,000	22.71
1988	29,726	100.0	6,526	15.0	.7	12.31	-	12.31	[2] 150	82.7	148,000	.5	22.99	29.72	24.15	186	138,000	20.11
1989	30,535	100.0	6,493	15.0	.8	11.84	-	11.84	[2] 394	18.1	148,000	.5	18.83	16.58	16.99	1,374	138,000	24.14
1990	31,244	100.0	6,480	15.2	.8	12.27	-	12.27	[2] 313	-	148,000	.5	-	29.54	29.54	488	138,000	34.95
Toledo Edison Co																		
1986	1,683	73.4	13,223	6.8	1.1	56.94	39.90	52.40	-	-	-	-	-	-	-	*	137,584	28.35
1987	1,522	80.6	13,227	6.6	1.2	55.23	39.38	52.16	-	-	-	-	-	-	-	2	138,100	23.68
1988	1,338	89.4	13,179	6.7	1.2	55.07	40.20	53.49	-	-	-	-	-	-	-	3	136,135	22.62
1989	1,239	96.2	13,085	7.0	1.2	49.99	46.77	49.87	-	-	-	-	-	-	-	19	137,512	24.09
1990	1,309	98.2	13,109	6.9	1.2	51.37	42.08	51.20	-	-	-	-	-	-	-	4	137,732	25.59
Tucson Electric Power Co																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	225	100.0	10,151	11.4	.4	52.03	-	52.03	-	-	-	-	-	-	-	-	-	-
1988	348	100.0	10,300	11.7	.4	54.54	-	54.54	-	-	-	-	-	-	-	-	-	-
1989	271	100.0	10,183	13.1	.5	55.67	-	55.67	-	-	-	-	-	-	-	-	-	-
1990	167	100.0	10,192	13.0	.5	57.69	-	57.69	-	-	-	-	-	-	-	-	-	-
Union Electric Co																		
1986	9,705	98.0	11,199	9.3	2.0	36.75	30.81	36.63	227	100.0	150,558	1.8	14.66	-	14.66	33	137,000	19.59
1987	9,609	98.3	11,092	9.4	1.9	36.33	30.89	36.24	225	100.0	151,485	1.8	15.39	-	15.39	70	137,000	24.94
1988	10,598	99.3	10,791	8.9	1.7	34.37	27.58	34.32	187	100.0	153,535	1.8	11.95	-	11.95	68	137,000	20.27
1989	11,343	88.6	10,772	8.8	1.9	33.04	29.58	32.64	-	-	-	-	-	-	-	43	137,000	27.56
1990	10,222	73.3	10,837	8.5	1.9	34.60	27.78	32.78	-	-	-	-	-	-	-	83	137,000	31.95
United Illuminating Co																		
1986	817	100.0	13,172	6.8	.5	59.83	-	59.83	5,864	84.0	149,862	1.0	15.96	13.48	15.56	8	139,132	20.31
1987	770	100.0	13,134	6.7	.5	63.56	-	63.56	5,967	73.8	150,471	.9	18.32	17.88	18.21	7	138,862	23.55
1988	830	95.7	13,139	6.3	.5	60.64	47.53	60.07	6,454	82.8	150,639	1.0	14.65	13.95	14.53	10	138,046	21.46
1989	875	90.3	13,308	6.1	.5	57.82	48.13	56.88	6,377	70.3	150,878	1.0	17.54	17.48	17.52	7	139,048	23.68
1990	954	89.3	13,233	6.4	.5	57.14	49.77	56.35	5,285	81.3	151,490	1.0	19.02	17.86	18.80	7	139,292	31.04
United Power Assn																		
1986	1,127	100.0	6,726	9.1	.6	13.28	-	13.28	-	-	-	-	-	-	-	-	-	-
1987	1,044	100.0	6,697	9.9	.6	13.62	-	13.62	-	-	-	-	-	-	-	-	-	-
1988	1,120	100.0	6,698	9.4	.6	13.83	-	13.83	-	-	-	-	-	-	-	-	-	-
1989	973	100.0	6,830	9.5	.9	13.61	-	13.61	-	-	-	-	-	-	-	-	-	-
1990	1,085	100.0	6,881	8.6	.9	13.86	-	13.86	-	-	-	-	-	-	-	3	137,000	30.58

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Tennessee Valley Authority																
1986	-	-	-	-	-	-	864,610	1,351	-	100	*	-	1,220,442	1,215,737	4,705	-
1987	-	-	-	-	-	-	839,313	1,267	-	100	*	-	1,139,032	1,133,934	5,098	-
1988	-	-	-	-	-	-	775,172	1,160	-	100	*	-	1,027,161	1,022,912	4,249	-
1989	-	-	-	-	-	-	781,907	1,130	-	100	*	-	1,010,135	1,005,471	4,664	-
1990	-	-	-	-	-	-	867,165	1,095	-	100	*	-	1,110,522	1,104,340	6,182	-
Texas Municipal Power Agency																
1986	-	-	-	-	-	-	28,126	28	-	100	*	-	43,337	43,254	83	-
1987	-	-	-	-	-	-	31,366	73	-	100	*	-	45,871	45,602	269	-
1988	-	-	-	-	-	-	32,707	28	-	100	*	-	46,174	46,072	102	-
1989	-	-	-	-	-	-	33,342	63	-	100	*	-	48,858	48,558	300	-
1990	-	-	-	-	-	-	34,347	14	-	100	*	-	51,728	51,678	49	-
Texas New Mexico Power Co																
1986	6	1,034	3.52	-	3.52	-	-	-	6	-	-	100	20	-	-	20
1987	110	1,021	3.07	-	3.07	-	-	-	112	-	-	100	337	-	-	337
1988	2	1,033	2.99	-	2.99	-	-	-	2	-	-	100	6	-	-	6
1989	8	1,030	3.85	-	3.85	-	-	-	8	-	-	100	30	-	-	30
1990	466	1,040	1.85	-	1.85	-	7,712	-	485	94	-	6	11,262	10,400	-	863
Texas Utilities Electric Co																
1986	365,251	1,041	2.96	2.88	2.88	99.4	393,842	1,216	380,286	51	*	49	1,439,989	382,916	5,402	1,051,671
1987	359,910	1,044	2.87	2.67	2.67	100.0	371,114	1,428	375,756	50	*	50	1,359,704	392,974	5,632	961,098
1988	357,851	1,039	-	2.57	2.57	100.0	387,965	2,012	371,738	51	*	49	1,291,450	366,071	7,371	918,008
1989	352,438	1,039	-	2.63	2.63	100.0	396,505	10,411	366,358	51	1	47	1,329,234	361,462	39,857	927,915
1990	339,800	1,037	-	2.57	2.57	100.0	404,930	4,776	352,420	53	1	46	1,284,031	383,461	26,309	874,261
Toledo Edison Co																
1986	78	1,021	-	5.10	5.10	100.0	44,519	2	80	100	*	*	88,625	88,216	11	398
1987	31	1,028	-	4.87	4.87	100.0	40,277	10	32	100	*	*	79,609	79,415	43	151
1988	20	1,016	-	4.07	4.07	100.0	35,262	19	20	100	*	*	71,721	71,564	77	80
1989	21	1,028	-	4.09	4.09	100.0	32,427	110	22	100	*	*	62,340	61,794	460	86
1990	15	1,025	-	3.45	3.45	100.0	34,331	25	16	100	*	*	67,218	67,052	113	53
Tucson Electric Power Co																
1986	2,568	1,032	-	2.46	2.46	100.0	-	-	2,649	-	-	100	6,308	-	-	6,308
1987	3,186	1,032	-	2.36	2.36	100.0	4,572	-	3,287	58	-	42	19,232	11,718	-	7,514
1988	2,172	1,029	-	2.52	2.52	100.0	7,169	-	2,234	76	-	24	24,457	18,981	-	5,476
1989	1,654	1,033	-	2.64	2.64	100.0	5,519	-	1,709	76	-	24	19,447	15,086	-	4,362
1990	821	1,034	-	2.67	2.67	100.0	3,404	-	849	80	-	20	11,827	9,634	-	2,193
Union Electric Co																
1986	295	1,039	3.54	-	3.54	-	217,382	1,625	306	99	1	*	360,503	355,485	3,973	1,045
1987	574	1,030	3.39	-	3.39	-	213,167	1,834	591	99	1	*	355,359	348,207	5,208	1,944
1988	524	1,021	3.45	-	3.45	-	228,716	1,597	535	99	1	*	369,106	363,683	3,614	1,810
1989	387	1,017	3.21	-	3.21	-	244,373	247	394	100	*	*	372,701	370,276	1,185	1,241
1990	613	1,017	2.02	-	2.02	-	221,543	478	624	100	*	*	338,959	335,068	2,651	1,240
United Illuminating Co																
1986	99	1,039	2.33	-	2.33	-	21,523	36,957	103	37	63	*	140,542	48,882	91,429	231
1987	3,180	1,031	2.77	-	2.77	-	20,227	37,750	3,277	33	62	5	166,555	48,940	108,804	8,811
1988	46	1,030	2.58	-	2.58	-	21,810	40,888	47	35	65	*	143,966	49,860	93,987	119
1989	2,293	1,030	2.58	-	2.58	-	23,289	40,451	2,362	35	61	4	167,586	49,770	111,910	5,907
1990	2,920	1,033	3.04	-	3.04	-	25,248	33,668	3,016	41	54	5	162,218	53,757	99,582	8,879
United Power Assn																
1986	-	-	-	-	-	-	15,161	-	-	100	-	-	14,966	14,966	-	-
1987	-	-	-	-	-	-	13,990	-	-	100	-	-	14,222	14,222	-	-
1988	-	-	-	-	-	-	15,005	-	-	100	-	-	15,488	15,488	-	-
1989	-	-	-	-	-	-	13,285	-	-	100	-	-	13,235	13,235	-	-
1990	-	-	-	-	-	-	14,937	15	-	100	*	-	15,127	15,047	80	-

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Upper Peninsula Generating Co																		
1986	761	-	12,669	9.2	0.9	-	40.78	40.78	-	-	-	-	-	-	-	-	-	-
1987	1,425	-	9,981	7.3	.6	-	39.21	39.21	-	-	-	-	-	-	-	-	-	-
Utah Power & Light Co																		
1986	7,064	91.1	11,043	10.4	.6	28.99	33.48	29.39	-	-	-	-	-	-	-	44	140,000	20.35
1987	8,197	100.0	11,112	9.7	.5	24.65	-	24.65	-	-	-	-	-	-	-	45	140,000	24.57
1988	9,428	100.0	10,913	10.4	.6	22.67	-	22.67	-	-	-	-	-	-	-	38	140,000	23.36
Vero Beach City of																		
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	138,000	30.66
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vineland City of																		
1986	46	100.0	12,919	10.0	1.0	49.30	-	49.30	74	100.0	148,833	1.5	15.72	-	15.72	12	137,233	18.17
1987	77	100.0	12,618	8.4	.8	49.40	-	49.40	155	100.0	150,530	1.0	18.89	-	18.89	20	136,770	23.60
1988	84	100.0	12,959	8.6	.9	47.97	-	47.97	126	100.0	150,620	.9	16.29	-	16.29	20	135,758	20.01
1989	68	100.0	12,976	7.6	.8	52.80	-	52.80	93	100.0	150,533	.9	18.85	-	18.85	33	140,722	25.53
1990	10	100.0	12,892	7.2	.7	55.46	-	55.46	111	100.0	150,578	.9	18.91	-	18.91	13	140,410	31.53
Virginia Electric & Power Co																		
1986	8,857	67.0	12,623	11.0	1.3	40.34	33.18	37.97	3,487	81.0	148,102	.8	12.98	13.05	12.99	267	140,000	20.37
1987	10,655	54.7	12,632	10.8	1.3	38.06	34.63	36.50	5,273	87.3	147,589	.8	19.08	18.36	18.99	311	140,000	22.85
1988	9,060	62.5	12,622	10.7	1.3	38.79	32.89	36.58	2,991	67.6	147,697	1.1	14.29	14.24	14.27	209	140,000	20.75
1989	11,258	54.1	12,510	11.1	1.3	38.32	34.49	36.56	5,907	59.4	146,693	1.0	16.57	17.99	17.15	311	140,000	23.78
1990	9,645	71.5	12,574	11.2	1.4	39.09	33.66	37.54	2,479	70.5	147,161	1.0	24.04	18.06	22.28	299	140,000	34.11
West Penn Power Co																		
1986	5,039	91.6	12,752	10.0	2.2	35.98	25.38	35.10	-	-	-	-	-	-	-	31	141,000	23.86
1987	5,412	91.5	12,646	10.5	2.3	35.46	24.26	34.51	-	-	-	-	-	-	-	22	141,000	24.72
1988	5,008	91.8	12,621	10.5	2.3	33.83	23.18	32.95	-	-	-	-	-	-	-	26	141,000	23.73
1989	5,935	92.9	12,625	10.4	2.1	34.39	26.93	33.86	-	-	-	-	-	-	-	27	141,000	25.89
1990	5,247	93.7	12,720	10.2	2.2	36.10	27.80	35.58	-	-	-	-	-	-	-	29	141,000	32.39
West Texas Utilities Co																		
1986	719	100.0	8,269	4.9	.3	27.01	-	27.01	-	-	-	-	-	-	-	51	133,990	16.99
1987	1,856	100.0	8,278	5.1	.3	27.79	-	27.79	-	-	-	-	-	-	-	59	135,039	21.94
1988	2,053	88.3	8,377	5.0	.4	29.53	23.14	28.79	-	-	-	-	-	-	-	61	138,785	18.76
1989	2,459	83.0	8,317	5.0	.4	30.38	22.82	29.10	-	-	-	-	-	-	-	44	140,074	30.54
1990	2,595	91.0	8,333	4.8	.3	28.69	22.34	28.12	-	-	-	-	-	-	-	14	138,497	36.06
Western Farmers Elec Coop Inc																		
1986	697	100.0	8,304	5.8	.5	28.20	-	28.20	-	-	-	-	-	-	-	5	140,000	15.07
1987	950	94.2	8,626	5.9	.5	29.19	50.40	30.42	-	-	-	-	-	-	-	-	-	-
1988	1,684	100.0	8,818	5.3	.3	29.85	-	29.85	-	-	-	-	-	-	-	-	-	-
1989	1,644	100.0	8,467	5.4	.4	29.93	-	29.93	-	-	-	-	-	-	-	-	-	-
1990	1,146	100.0	8,611	5.5	.4	34.17	-	34.17	-	-	-	-	-	-	-	-	-	-
Western Massachusetts Elec Co																		
1986	-	-	-	-	-	-	-	-	926	100.0	150,371	1.7	16.41	-	16.41	16	137,960	20.24
1987	-	-	-	-	-	-	-	-	582	87.3	150,384	1.6	17.67	17.27	17.62	16	138,099	22.83
1988	-	-	-	-	-	-	-	-	1,047	87.8	150,192	1.3	15.07	15.70	15.15	18	138,063	19.91
1989	-	-	-	-	-	-	-	-	545	87.1	149,558	1.0	19.37	17.45	19.12	21	138,245	25.06
1990	-	-	-	-	-	-	-	-	318	100.0	150,399	1.0	22.66	-	22.66	18	138,243	29.82
Wisconsin Electric Power Co																		
1986	6,492	63.6	9,812	6.0	.9	32.46	24.60	29.60	-	-	-	-	-	-	-	125	138,123	21.10
1987	6,668	84.6	9,771	6.2	.8	26.09	18.55	24.92	-	-	-	-	-	-	-	50	137,747	23.06
1988	8,919	98.0	9,906	6.2	.7	26.73	15.61	26.51	-	-	-	-	-	-	-	77	137,100	21.20
1989	8,966	99.3	9,924	6.2	.7	25.29	36.68	25.37	-	-	-	-	-	-	-	75	138,015	23.74
1990	8,268	99.7	10,047	6.0	.8	26.06	43.29	26.10	-	-	-	-	-	-	-	45	138,980	32.59

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Upper Peninsula Generating Co																
1986	-	-	-	-	-	-	19,282	-	-	100	-	-	31,037	31,037	-	-
1987	-	-	-	-	-	-	28,445	-	-	100	-	-	55,870	55,870	-	-
Utah Power & Light Co																
1986	147	1,027	4.00	-	4.00	-	156,021	259	151	100	*	*	209,070	207,586	895	588
1987	95	1,022	3.44	-	3.44	-	182,177	265	97	100	*	*	203,521	202,089	1,106	326
1988	185	1,026	3.78	-	3.78	-	205,783	223	190	100	*	*	215,285	213,699	888	698
Vero Beach City of																
1986	936	1,056	2.26	-	2.26	-	-	10	988	-	1	99	2,174	-	55	2,119
1987	894	1,056	2.98	-	2.98	-	-	-	944	-	-	100	2,666	-	-	2,666
1988	1,683	1,056	2.52	2.50	2.52	9.7	-	-	1,777	-	-	100	4,234	-	-	4,234
1989	2,277	1,031	-	2.70	2.70	100.0	-	-	2,347	-	-	100	6,154	-	-	6,154
1990	2,851	1,025	2.97	2.73	2.78	76.7	-	-	2,922	-	-	100	7,934	-	-	7,934
Vineland City of																
1986	-	-	-	-	-	-	1,196	530	-	69	31	-	3,659	2,283	1,376	-
1987	-	-	-	-	-	-	1,938	1,098	-	64	36	-	7,206	3,794	3,412	-
1988	-	-	-	-	-	-	2,178	915	-	70	30	-	6,496	4,031	2,465	-
1989	-	-	-	-	-	-	1,754	782	-	69	31	-	6,160	3,568	2,592	-
1990	-	-	-	-	-	-	246	782	-	24	76	-	3,051	529	2,522	-
Virginia Electric & Power Co																
1986	[3] 743	1,052	2.03	-	2.03	-	223,603	23,260	782	90	9	*	388,587	336,341	50,738	1,508
1987	[3] 2,404	1,039	2.52	-	2.52	-	269,183	34,515	2,497	88	11	1	502,221	388,936	107,234	6,051
1988	[3] 700	1,054	2.16	-	2.16	-	228,707	19,780	738	92	8	*	379,910	331,377	47,021	1,512
1989	[3] 3,517	1,041	2.58	-	2.58	-	281,678	38,228	3,663	87	12	1	529,377	411,588	108,707	9,082
1990	[3] 1,094	1,041	2.69	-	2.69	-	242,545	17,081	1,139	93	7	*	430,462	362,092	65,429	2,941
West Penn Power Co																
1986	72	1,000	5.04	-	5.04	-	128,499	183	72	100	*	*	177,930	176,831	738	361
1987	56	1,000	4.92	-	4.92	-	136,878	131	56	100	*	*	187,611	186,787	547	277
1988	52	1,000	4.47	-	4.47	-	126,424	156	52	100	*	*	165,907	165,051	624	232
1989	75	1,000	4.23	-	4.23	-	149,865	160	75	100	*	*	201,964	200,948	699	317
1990	37	1,000	3.37	-	3.37	-	133,476	170	37	100	*	*	187,716	186,663	928	125
West Texas Utilities Co																
1986	39,340	1,017	2.60	.82	1.98	35.1	11,891	287	39,994	23	1	77	98,041	19,418	866	77,757
1987	36,559	1,024	2.14	.41	1.54	34.4	30,729	332	37,452	45	*	55	109,335	51,583	1,283	56,468
1988	37,822	1,020	2.36	.27	1.71	31.0	34,397	355	38,587	47	*	53	124,958	59,100	1,141	64,717
1989	31,446	1,037	2.27	2.01	2.25	6.7	40,902	258	32,616	55	*	44	143,583	71,543	1,338	70,702
1990	36,595	1,034	2.06	2.00	2.05	8.3	43,255	80	37,830	53	*	47	148,638	72,977	498	75,162
Western Farmers Elec Coop Inc																
1986	2,715	1,047	1.56	2.09	1.81	47.1	11,569	31	2,842	80	*	20	24,641	19,640	80	4,921
1987	5,182	1,039	1.46	1.58	1.49	27.6	16,388	-	5,386	75	-	25	36,637	28,897	-	7,740
1988	3,221	1,049	1.47	1.96	1.57	21.2	29,690	-	3,378	90	-	10	55,320	50,251	-	5,069
1989	2,011	1,057	1.64	2.18	1.80	29.6	27,844	-	2,125	93	-	7	52,829	49,212	-	3,617
1990	4,204	1,049	1.60	2.68	1.83	21.2	19,728	-	4,409	82	-	18	46,848	39,149	-	7,699
Western Massachusetts Elec Co																
1986	830	1,027	2.03	-	2.03	-	-	5,937	852	-	87	13	17,192	-	15,506	1,687
1987	3,692	1,025	2.51	-	2.51	-	-	3,767	3,785	-	50	50	19,874	-	10,615	9,258
1988	1,311	1,037	2.13	-	2.13	-	-	6,708	1,359	-	83	17	19,004	-	16,216	2,787
1989	1,940	1,031	2.48	-	2.48	-	-	3,548	2,001	-	64	36	15,770	-	10,956	4,814
1990	2,199	1,030	2.59	-	2.59	-	-	2,119	2,264	-	48	52	13,464	-	7,766	5,698
Wisconsin Electric Power Co																
1986	-	-	-	-	-	-	127,410	725	-	99	1	-	194,824	192,189	2,635	-
1987	-	-	-	-	-	-	130,303	289	-	100	*	-	167,334	166,181	1,153	-
1988	-	-	-	-	-	-	176,704	445	-	100	*	-	238,055	236,416	1,639	-
1989	312	1,000	2.73	-	2.73	-	177,957	434	312	100	*	*	230,045	227,415	1,776	854
1990	665	1,011	2.85	2.82	2.85	1.3	166,135	263	673	99	*	*	219,183	215,823	1,467	1,893

See footnotes at end of table.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	Av. Cost $/Bbl
	1,000 Short Tons	% on Contract	Btu per Lb	Ash Wt Pct	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls	% on Contract	Btu per Gal	Sulf Wt Pct	Contract	Spot	Total	1,000 bbls		
Wisconsin Power & Light Co																		
1986	6,024	66.0	9,309	6.9	0.8	30.86	27.09	29.58	-	-	-	-	-	-	-	-	-	-
1987	5,784	83.5	9,307	7.0	.9	29.76	28.14	29.49	-	-	-	-	-	-	-	-	-	-
1988	5,684	87.6	9,438	7.0	.9	30.81	28.17	30.48	-	-	-	-	-	-	-	-	-	-
1989	5,669	86.6	9,396	7.0	.8	31.25	28.05	30.82	-	-	-	-	-	-	-	-	-	-
1990	6,549	54.4	9,223	6.8	.7	30.78	19.46	25.62	-	-	-	-	-	-	-	-	-	-
Wisconsin Public Service Corp																		
1986	1,937	93.6	9,939	6.4	1.0	39.28	27.24	38.52	-	-	-	-	-	-	-	34	138,000	20.10
1987	1,957	89.6	9,713	6.7	1.0	38.51	27.93	37.40	-	-	-	-	-	-	-	26	138,000	22.55
1988	2,150	73.6	10,097	6.8	1.1	38.38	32.00	36.70	-	-	-	-	-	-	-	23	138,000	20.68
1989	2,155	76.8	9,889	6.8	1.0	40.22	30.99	38.08	-	-	-	-	-	-	-	9	138,000	23.52
1990	2,143	78.3	9,960	6.7	1.0	35.82	26.02	33.70	-	-	-	-	-	-	-	4	138,000	27.54
Wyandotte Municipal Serv Comm																		
1986	91	100.0	13,398	6.1	.7	51.55	-	51.55	-	-	-	-	-	-	-	-	-	-
1987	90	100.0	13,270	7.1	.7	48.31	-	48.31	-	-	-	-	-	-	-	-	-	-
1988	126	100.0	13,548	5.6	.7	51.48	-	51.48	-	-	-	-	-	-	-	-	-	-
1989	119	100.0	13,421	5.8	.7	51.30	-	51.30	-	-	-	-	-	-	-	-	-	-
1990	139	100.0	13,179	7.3	.7	50.08	-	50.08	-	-	-	-	-	-	-	-	-	-

Year	Coal								Heavy Oil							Light Oil		
	Quantity		Average Quality			Average Cost (dollars per ton)			Quantity		Average Quality		Average Cost (dollars per bbl)			Quantity	Btu per Gal	av. Cost $ bbl
	1,000 Short Tons	% on Contr	Btu per Lb	Ash wt pct	Sulf wt pct	Contr	Spot	Total	1,000 bbls	% on Contr	Btu per Gal	Sulf wt pct	Contr	Spot	Total	1,000 bbls		
1986	687,323	87.5	10,545	10.0	1.4	33.51	31.80	33.29	220,585	75.2	149,821	1.1	15.43	14.14	15.11	7,936	138,664	20.62
1987	721,597	84.6	10,570	10.0	1.4	32.01	30.86	31.83	187,300	79.2	151,155	1.0	19.04	18.32	18.89	7,278	138,754	23.34
1988	728,163	86.2	10,453	9.9	1.3	30.86	29.30	30.64	230,234	71.4	149,948	.9	15.22	14.95	15.15	6,690	138,566	21.61
1989	753,749	82.4	10,427	9.9	1.3	30.37	29.05	30.14	237,668	74.0	149,952	1.0	18.01	17.69	17.92	8,754	138,542	24.90
1990	787,217	82.4	10,468	9.8	1.3	30.74	29.09	30.45	202,281	72.2	150,109	1.0	21.02	20.69	20.93	7,070	138,559	31.34

* = Number less than 0.5

[1] May contain Petroleum Coke, Wood Chips, Refuse or Coke Breeze

[2] May contain No. 4 Fuel Oil, No. 5 Fuel Oil, Crude Oil or Topped Crude

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 44. Profile of Fossil-Fuel Receipts, 1986-1990 (Continued)

Utility Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
Wisconsin Power & Light Co																
1986	25	1,004	3.90	-	3.90	-	112,157	-	25	100	-	*	178,284	178,188	-	96
1987	222	991	3.77	-	3.77	-	107,665	-	220	100	-	*	171,416	170,579	-	837
1988	142	1,004	3.46	-	3.46	-	107,290	-	143	100	-	*	173,748	173,256	-	492
1989	13	1,010	2.99	-	2.99	-	106,532	-	13	100	-	*	174,776	174,737	-	39
1990	74	1,002	2.44	-	2.44	-	120,792	-	74	100	-	*	167,955	167,775	-	180
Wisconsin Public Service Corp																
1986	53	1,003	3.48	-	3.48	-	38,504	198	54	99	1	*	75,476	74,605	685	186
1987	123	1,001	3.39	-	3.39	-	38,016	149	123	99	*	*	74,198	73,201	580	417
1988	290	1,006	3.48	-	3.48	-	43,416	133	291	99	*	1	80,380	78,897	476	1,007
1989	551	1,004	3.10	-	3.10	-	42,621	52	553	99	*	1	83,972	82,052	212	1,708
1990	333	1,005	2.98	-	2.98	-	42,687	23	335	99	*	1	73,313	72,209	110	994
Wyandotte Municipal Serv Comm																
1986	35	1,000	-	4.23	4.23	100.0	2,431	-	35	99	-	1	4,825	4,677	-	148
1987	257	1,000	-	3.73	3.73	100.0	2,390	-	257	90	-	10	5,310	4,351	-	959
1988	373	1,000	-	3.67	3.67	100.0	3,403	-	373	90	-	10	7,833	6,465	-	1,368
1989	4	1,000	3.70	3.70	3.70	46.3	3,207	-	4	100	-	*	6,144	6,129	-	15
1990	2	1,554	2.75	6.14	4.27	44.9	3,658	-	2	100	-	*	6,957	6,951	-	6

Year	Natural Gas						Total Quantity						Total Fuel Cost			
	Quantity (1,000 Mcf)	Btu per Cu Ft	Average Cost (dollars per Mcf)			Percent Firm/ Total	Billion Btu			Percent of Total Btu			Thousand Dollars			
			Interupt	Firm	Total		Coal	Petroleum	Gas	Coal	Petroleum	Gas	Total	Coal	Petroleum	Gas
1986	2,387,622	1,034	2.47	2.41	2.43	61.2	14,495,750	1,434,246	2,468,918	79	8	13	32,185,811	22,884,360	3,495,877	5,805,574
1987	2,605,191	1,032	2.32	2.30	2.31	51.5	15,254,844	1,231,490	2,687,832	80	6	14	32,696,540	22,968,495	3,708,480	6,019,566
1988	2,362,721	1,028	2.47	2.22	2.33	56.1	15,222,392	1,488,899	2,429,551	80	8	13	31,442,360	22,311,887	3,631,493	5,498,980
1989	2,472,506	1,028	2.50	2.34	2.42	49.4	15,719,132	1,547,765	2,541,582	79	8	13	33,182,168	22,718,873	4,477,763	5,985,532
1990	2,490,979	1,027	2.48	2.27	2.38	44.8	16,480,724	1,316,437	2,558,303	81	6	13	34,361,169	23,968,005	4,454,530	5,938,633

* = Number less than 0.5

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

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for steam-electric plants with a generator nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet.

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Appendix A

Flue Gas Desulfurization Capacity, 1989

Appendix A

Flue Gas Desulfurization Capacity, 1989

When fossil fuels are burned in the production of electricity, a variety of gases (as well as particulates) are formed. If these gases (and particulates) are not captured by some type of pollution control equipment, they are released into the atmosphere. This appendix provides a brief description of these gaseous emissions and presents data on the operating capacity of power plants in the United States with flue gas desulfurization (FGD) units (Table A1).[6]

Among the gases emitted during the burning of fossil fuels are sulfur dioxide, nitrogen oxides, and carbon dioxide. During the combustion of fossil fuels, the sulfur contained in the fossil fuels combines with the oxygen in the air to form sulfur dioxide. Nitrogen is a colorless, odorless gas (approximately 78 percent of the atmosphere) that combines with oxygen and water to form nitrogen oxides. Under the right conditions, sulfur dioxide and nitrogen oxides react with atmospheric chemicals to form sulfuric acid and nitric acid, respectively. As a result, sulfur dioxide and nitrogen oxides are often referred to as precursors of acid deposition. Coal-fired generating units produce more sulfur dioxide and nitrogen oxides than other fossil-fueled units.

Almost all coal contains sulfur, although some kinds contain more than other kinds (depending on the mine location and kind of coal being mined). Western coal has less sulfur than eastern coal. More than 50 percent of western coal is subbituminous coal with a low-sulfur content (less than 0.5 percent) containing approximately 9,000 Btu per pound. Eastern coal (bituminous coal) has a sulfur content in excess of 0.8 percent with more than 12,000 Btu per pound. The average sulfur content per pound of coal ranges from 0.3 percent for western coal to 4.5 percent for eastern coal.

To a lesser degree, sulfur is also contained in petroleum, varying based on type of petroleum (for example, light or heavy oil). The average sulfur content per barrel of petroleum used by steam-electric plants ranges from 0.05 percent for western plants to 2.75 percent for eastern plants. Gas contains no significant amounts of sulfur.

Emission of sulfur dioxide into the atmosphere by electric utilities can be reduced by using a low-sulfur coal or by using an alternate fuel with a lower sulfur content, such as gas. Another method is to use pollution control equipment designed to remove sulfur dioxide from the flue gas released through the flues of the plant. Other methods are currently under study and not in extensive use.

FGD units are among the most significant types of environmental equipment used by U.S. electric utilities. (Particulate collectors and cooling towers are two other important types.) In a FGD unit (or scrubber), the gases resulting from combustion are passed through tanks containing a material that captures and neutralizes the sulfur dioxide.

[6]For a more detailed discussion on emissions and information on the costs related to environmental equipment, see the Energy Information Administration *Electric Power Annual* DOE/EIA-0348(89).

Table A1. Flue Gas Desulfurization (FGD) Capacity in Operation as of December 1989

Utility Plant and Unit No.	Nameplate Capacity (megawatts) by Plant	Nameplate Capacity (megawatts) by Unit with FGD System	Initial Start Up Date of FGD System	Design Coal Sulfur (Percent by Wt)	FGD Type	Sorbent	Designed SO2 Removal (Percent Efficiency)
Alabama Electric Coop Inc							
Lowman 2	532	233	7903	1.90	Spray	Limestone	85.0
Lowman 3	-	233	8005	1.90	Spray	Limestone	85.0
Arizona Electric Power Coop Inc							
Apache 2	464	195	7901	.70	Packed	Limestone	85.0
Apache 3	464	195	7901	.70	Packed	Limestone	85.0
Arizona Public Service							
Cholla 1	1,105	114	7312	.60	Venturi	Limestone	85.0
Cholla 2	-	289	7806	.60	Packed	Limestone	99.0
Cholla 4	-	414	8106	.60	Packed	Limestone	90.0
Four Corners 1	2,270	190	7201	.80	Venturi	Lime	72.0
Four Corners 2	-	190	7201	.80	Venturi	Lime	72.0
Four Corners 3	-	253	7201	.80	Venturi	Lime	72.0
Four Corners 4	-	818	8501	.80	Tray	Lime	72.0
Four Corners 5	-	818	8501	.80	Tray	Lime	72.0
Associated Elec Coop-Missouri							
Thomas Hill 3	1,135	670	8207	4.80	Spray	Limestone	91.1
Basin Electric Power Coop							
Antelope Valley 1	870	435	8307	1.20	SprayDry	Lime/Alkaline Flyash	81.0
Antelope Valley 2	-	435	8511	1.20	SprayDry	Lime/Alkaline Flyash	89.0
Laramie River 1	1,710	570	8007	.80	Spray	Limestone	90.0
Laramie River 2	-	570	8107	.80	Spray	Limestone	90.0
Laramie River 3	-	570	8405	.50	SprayDry	Lime/Alkaline Flyash	85.0
Big Rivers Electric Corp							
D. B. Wilson 1	509	509	8701	3.80	Spray	Limestone	90.0
R. D. Green 1	527	264	7912	4.00	Spray	Lime	90.0
R. D. Green 2	-	264	8101	4.00	Spray	Lime	90.0
Central Illinois Light							
Duck Creek 1	441	441	7607	3.40	Venturi	Limestone	86.0
Central Illinois Public Service							
Newton 1	1,235	617	7912	4.00	Spray	Sodium Carbonate	90.0
Central Louisanna Electric							
Dolet Hills 1	721	721	8604	.70	Spray	Limestone	76.0
Century Power Corp							
Springerville 1	794	397	8506	.70	SprayDry	Lime/Alkaline Flyash	61.3
Cincinnati Gas and Electric Co							
East Bend 2	669	669	8103	5.20	SprayDry	Lime	99.0
City Utilities of Springfield							
Southwest 1	194	194	7704	3.20	Tray	Limestone	87.0
Colorado-Ute Electric Assn							
Craig 1	1,339	446	8010	9.00	Spray	Limestone	85.0
Craig 2	-	446	8005	9.00	Spray	Limestone	85.0
Craig 3	-	446	8410	7.00	SprayDry	Lime	85.0
Columbus Southern Power Co							
Conesville 5	2,175	444	7705	7.90	Spray	Lime	89.7
Conesville 6	-	444	7708	7.90	Spray	Lime	89.7
Cooperative Power Association							
Coal Creek 1	1,012	506	7908	1.00	Spray	Lime/Alkaline Flyash	90.0
Coal Creek 2	-	506	8107	1.00	Spray	Lime/Alkaline Flyash	90.0
Deepwater Operating Co							
Deepwater 1	129	129	8603	4.00		Limestone	-

See footnotes at end of table.
Source: Energy Information Administration, Form EIA-767, "Steam-Electric Plant Operation and Design Report."

Table A1. Flue Gas Desulfurization (FGD) Capacity in Operation as of December 1989 (Continued)

Utility Plant and Unit No.	Nameplate Capacity (megawatts) by Plant	Nameplate Capacity (megawatts) by Unit with FGD System	Initial Start Up Date of FGD System	Design Coal Sulfur (Percent by Wt)	FGD Type	Sorbent	Designed SO2 Removal (Percent Efficiency)
Delmarva Power and Light							
Delaware City 1	140	28	8001	-	Tray	Sodium Sulfite	92.0
Delaware City 2	-	28	8001	-	Tray	Sodium Sulfite	92.0
Delaware City 3	-	10	8001	-	Tray	Sodium Sulfite	92.0
Deseret Generating & Trans							
Bonanza 1	400	400	8605	0.50	Spray	Limestone	95.0
Duquesne Light							
Elrama 1-4	510	510	7609	2.50	Venturi	Lime	83.0
Philips 1-6	411	411	7406	2.50	Venturi	Lime	83.0
East Kentucky Power Coop							
Spurlock 2	814	508	8306	3.60	SprayDry	Lime	90.4
Grand Haven Light & Power							
J.B. Sims 3	78	58	8305	2.75	Tray	Lime	90.0
Grand River Dam Authority							
GRDA 2	1,010	520	8604	1.50	SprayDry	Lime/Alkaline Flyash	85.0
Hoosier Energy Div-Indiana Rec							
Merom 1	1,080	540	8309	3.00	Spray	Limestone	90.0
Merom 2	-	540	8202	3.00	Spray	Limestone	90.0
Houston Lighting and Power							
Limestone 1	1,627	813	8511	3.10	Spray	Limestone	90.0
Limestone 2	-	813	8611	3.10	Spray	Limestone	90.0
W.A. Parish 8	3,953	615	8212	.50	Spray	Limestone	85.0
Indianapolis Power and Light							
Petersburg 3	1,873	574	7711	4.50	Packed	Limestone	85.0
Petersburg 4	-	574	8604	4.50	Packed	Limestone	95.0
Jacksonville Electric Authority							
St Johns River 1	1,358	679	8702	2.20	Spray	Limestone	90.0
St Johns River 2	-	679	8810	2.20	Spray	Limestone	90.0
Kansas City Power and Light							
Lacygne 1	1,579	893	7306	5.40	Venturi	Limestone	80.0
Kansas Power and Light Co							
Jeffrey 1	2,160	720	7807	.30	Spray	Limestone	60.0
Jeffrey 2	-	720	8005	.30	Spray	Limestone	60.0
Jeffrey 3	-	720	8305	.30	Spray	Limestone	60.0
Lawrence 4	698	270	6906	.90	Venturi	Limestone	73.0
Lawrence 5	-	916	7105	.90	Venturi	Limestone	52.0
Kentucky Utilities							
Green River 1-3	264	38	7510	3.80	Venturi	Lime	80.0
Lakeland Dept of Elec Wtr Utils							
Mcintosh 3	550	334	8209	1.80	Spray	Limestone	85.0
Los Angeles Dept of Water & Pwr							
Intermountain 1	1,784	892	8607	.90	Spray	Limestone	90.0
Intermountain 2	-	892	8707	.90	Spray	Limestone	90.0
Louisville Gas and Electric							
Cane Run 4	792	163	7612	3.50	Packed	Other	85.0
Cane Run 5	-	209	7805	3.50	Spray	Other	85.0
Cane Run 6	-	272	7904	3.50	Tray	Other	95.0
Mill Creek 1	1,717	356	8112	6.00	Spray	Limestone	90.0
Mill Creek 2	-	356	8012	6.00	Spray	Limestone	90.0
Mill Creek 3	-	463	8510	5.00	Spray	Limestone	85.0
Mill Creek 4	-	544	8207	6.30	Spray	Limestone	85.0

See footnotes at end of table.
Source: Energy Information Administration, Form EIA-767, "Steam-Electric Plant Operation and Design Report."

Table A1. Flue Gas Desulfurization (FGD) Capacity in Operation as of December 1989 (Continued)

Utility Plant and Unit No.	Nameplate Capacity (megawatts) by Plant	Nameplate Capacity (megawatts) by Unit with FGD System	Initial Start Up Date of FGD System	Design Coal Sulfur (Percent by Wt)	FGD Type	Sorbent	Designed SO2 Removal (Percent Efficiency)
Lower Colorado River Auth							
Sam Seymour 3	1,690	460	8804	1.70	Spray	Limestone	90.0
Marquette Board of Light & Pwr							
Shiras 3	40	40	8303	.30	SprayDry	Lime	80.0
Michigan So Central Pwr Agency							
Endicott 1	55	50	8305	2.25	Spray	Limestone	90.0
Minnesota Power and Light							
Clay Boswell 3	1,073	365	7302	1.00	Spray	Particulate Scrubber	25.4
Clay Boswell 4	-	558	8004	1.00	Spray	Lime/Alkaline Flyash	83.2
Syl Laskin 1	116	58	7105	1.00	Spray	Particulate Scrubber	-
Syl Laskin 2	-	58	7105	1.00	Spray	Particulate Scrubber	-
Minnkota Power Coop							
Milton R. Young 2	734	477	7806	1.20	Spray	Lime/Alkaline Flyash	77.9
Monongahela Power (APS)							
Pleasants 1	1,368	684	7903	4.50	Tray	Lime	90.0
Pleasants 2	-	684	8012	4.50	Tray	Lime	90.0
Montana Power Co							
Colstrip 1	2,273	358	7511	.80	Venturi	Lime/Alkaline Flyash	58.8
Colstrip 2	-	358	7608	.80	Venturi	Lime/Alkaline Flyash	58.8
Colstrip 3	-	778	8401	.80	Venturi	Lime/Alkaline Flyash	95.0
Colstrip 4	-	778	8604	.80	Venturi	Lime/Alkaline Flyash	95.0
Montana-Dakota Utilities							
Coyote 1	450	450	8105	.80	SprayDry	Sodium Carbonate	70.0
Muscatine Power and Water							
Muscatine 9	249	160	8306	3.20	Spray	Limestone	96.0
Nevada Power							
Reid Gardner 1	612	114	7404	.50	Spray	Sodium Carbonate	94.1
Reid Gardner 2	-	114	7404	.50	Spray	Sodium Carbonate	90.5
Reid Gardner 3	-	114	7607	.50	Spray	Sodium Carbonate	95.0
Reid Gardner 4	-	270	8307	.90	Spray	Sodium Carbonate	85.0
New York State Electric and Gas							
Somerset 1	655	655	8408	3.60	Spray	Limestone	90.0
Northern Indiana Public Service							
Schahfer 17	1,943	424	8304	3.20	Spray	Dual Alkali	90.0
Schahfer 18	-	424	8602	3.20	Spray	Dual Alkali	90.0
Northern States Power							
Riverside 6-7	376	137	8101	1.30	SprayDry	Lime/Alkaline Flyash	70.0
Sherburne 1	2,129	660	7605	.90	Venturi	Limestone/Alk Flyash	50.0
Sherburne 2	-	660	7704	.90	Spray	Limestone/Alk Flyash	50.0
Sherburne 3	-	809	8711	.90	SprayDry	Lime/Alkaline Flyash	72.3
Orlando Utilities Comm							
Stanton Energy 1	465	465	8707	3.50	Spray	Limestone	90.0
PacifiCorp							
Jim Bridger 2	2,242	561	8609	1.00	Tray	Sodium Carbonate	86.4
Jim Bridger 3	-	561	8809	1.00	Tray	Other	86.4
Jim Bridger 4	-	561	7911	1.00	Tray	Sodium Carbonate	91.0
Wyodak 1	-	362	7204	.50	SprayDry	Lime	58.3
Dave Johnston 4	332	332	8612	.80		Wet Injection	75.2
Hunter 1	1,339	446	7806	.60	Spray	Lime	80.0
Hunter 2	-	446	8006	.60	Spray	Lime	80.0
Hunter 3	-	446	8306	.60	Spray	Limestone	90.0
Huntington 1	893	446	7802	.60	Spray	Lime	80.0
Naughton 3	707	326	8110	.60	Tray	Sodium Carbonate	70.0

See footnotes at end of table.
Source: Energy Information Administration, Form EIA-767, "Steam-Electric Plant Operation and Design Report."

Table A1. Flue Gas Desulfurization (FGD) Capacity in Operation as of December 1989 (Continued)

Utility Plant and Unit No.	Nameplate Capacity (megawatts) by Plant	Nameplate Capacity (megawatts) by Unit with FGD System	Initial Start Up Date of FGD System	Design Coal Sulfur (Percent by Wt)	FGD Type	Sorbent	Designed SO2 Removal (Percent Efficiency)
Pennsylvania Power							
Bruce Mansfield 1	2,741	914	7604	4.80	Venturi	Lime	92.1
Bruce Mansfield 2	-	914	7710	4.80	Venturi	Lime	92.1
Bruce Mansfield 3	-	914	8009	4.80	Spray	Lime	92.1
Philadelphia Electric							
Cromby 1	418	188	8212	2.60	Spray	Magnesium Oxide	95.0
Eddystone 1	1,489	354	8212	2.60	Spray	Magnesium Oxide	92.0
Eddystone 2	-	354	8212	2.60	Spray	Magnesium Oxide	92.0
Plains Elec Gen and Trans Coop							
Plains Escalante 1	233	233	8412	.80	Spray	Limestone	95.0
Platte River Authority							
Rawhide 1	285	285	8404	.30	SprayDry	Lime/Alkaline Flyash	80.0
Public Service Co of Indiana							
Gibson 5	3,340	668	8210	4.40	Spray	Limestone	86.0
Public Service Co of New Mexico							
San Juan 1	1,779	361	7804	1.30	Tray	Other	90.0
San Juan 2	-	350	7808	1.30	Tray	Other	90.0
San Juan 3	-	534	8203	1.30	Tray	Other	90.0
San Juan 4	-	534	8204	1.30	Tray	Other	90.0
Salt River Project							
Coronado 1	822	411	7912	1.00	Spray	Limestone	82.5
Coronado 2	-	411	8011	1.00	Spray	Limestone	82.5
San Miguel Electric							
San Miguel 1	410	410	8201	2.00	Spray	Limestone	86.0
Seminole Electric Coop							
Seminole 1	1,304	652	8402	3.00	Spray	Limestone	86.0
Seminole 2	-	652	8501	3.00	Spray	Limestone	86.0
Sierra Pacific Power							
North Valmy 2	521	267	8507	.50	SprayDry	Lime	70.0
Sikeston Brd of Mun Utilities							
Sikeston 1	261	261	8111	2.80	Venturi	Limestone	75.5
South Carolina Public Serv Auth							
Cross 2	556	556	8312	1.60	Spray	Limestone	81.4
Winyah 2	1,260	315	7707	1.10	Venturi	Limestone	45.0
Winyah 3	-	315	8006	2.30	Spray	Limestone	90.0
Winyah 4	-	315	8111	1.70	Spray	Limestone	90.4
South Mississippi Elec Pwr Assn							
R. D. Morrow 1	400	200	7809	1.50	Spray	Limestone	85.0
R. D. Morrow 2	-	200	7906	1.50	Spray	Limestone	85.0
Southern Illinois Power Coop							
Marion 4	272	173	7904	4.40	Venturi	Limestone	89.4
Southern Indiana Gas and Elec							
A. B. Brown 1	530	265	7904	4.50	Spray	Sodium Carbonate	85.0
A. B. Brown 2	-	265	8602	4.50	Spray	Sodium Carbonate	90.0
Southwestern Electric Pwr (CSW)							
Pirkey 1	721	721	8501	1.50	Spray	Limestone	85.0
Springfield Wtr Lt and Pwr Dept							
Dallman 3	388	207	8012	3.30	Packed	Limestone	95.0

See footnotes at end of table.
Source: Energy Information Administration, Form EIA-767, "Steam-Electric Plant Operation and Design Report."

Table A1. Flue Gas Desulfurization (FGD) Capacity in Operation as of December 1989 (Continued)

Utility Plant and Unit No.	Nameplate Capacity (megawatts)		Initial Start Up Date of FGD System	Design Coal Sulfur (Percent by Wt)	FGD Type	Sorbent	Designed SO2 Removal (Percent Efficiency)
	by Plant	by Unit with FGD System					
Sunflower Electric Coop Inc							
Holcomb 1	349	349	8308	1.00	SprayDry	Lime/Alkaline Flyash	80.0
Holcomb 2	-	-	8308	1.00	SprayDry	Lime/Alkaline Flyash	80.0
Holcomb 3	-	-	8308	1.00	SprayDry	Lime/Alkaline Flyash	80.0
Tampa Electric							
Big Bend 4	1,823	486	8502	3.50	Spray	Limestone	90.0
Tennessee Valley Authority							
Paradise 1	2,558	704	8309	3.20	Spray	Limestone	84.2
Paradise 2	-	704	8312	3.20	Spray	Limestone	84.2
Shawnee 9	-	-	8703	4.00		Lime	-
Widows Creek 7	1,969	575	8112	4.00	Spray	Limestone	83.4
Widows Creek 8	-	550	7801	4.50	Tray	Limestone	80.0
Texas Municipal Power							
Gibbons Creek 1	444	444	8310	2.30	Spray	Limestone	90.0
Texas Utilities Electric Co.							
Sandow 4	591	591	8105	1.60	Spray	Limestone	73.9
Martin Lake 1	2,380	793	7705	.90	Spray	Limestone	91.0
Martin Lake 2	-	793	7805	.90	Spray	Limestone	91.0
Martin Lake 3	-	793	7904	.90	Spray	Limestone	91.0
Monticello 3	1,980	793	7808	1.50	Spray	Limestone	74.0
United Power Association							
Stanton 1A	175	56	8207	.77	SprayDry	Lime	72.7
West Penn Power (APS)							
Mitchell 33	449	299	8208	3.00	Spray	Lime	95.0
West Texas Utilities							
Oklaunion 1	664	664	8612	.40	Spray	Limestone	86.8

Notes: • Data for 1990 are not available. • SO2 = Sulfur Dioxide.
Source: Energy Information Administration, Form EIA-767, "Steam-Electric Plant Operation and Design Report."

Appendix B

Coal-Producing Districts and Electric Utilities Reporting on the FERC Form 423

Appendix B

Coal-Producing Districts and Electric Utilities Reporting on the FERC Form 423

A complete list of the Bureau of Mines (BOM) coal-producing Districts is provided in Table B1 of this appendix. The table also includes the States within each BOM District and a brief description of the associated counties and mines.

This appendix also contains a list of the electric utilities that reported on the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," from 1986 through 1990. Some of these utilities may not have reported in some years due to either unit retirements or derating of their units below the minimum threshold of 50 or more megawatts of steam-electric capacity. Data provided in this report for some electric utilities may be shown under more than one utility name because of a change in ownership, plant operator, or merger. For example, data for the Narragansett Electric Company are shown under the New England Power Company.

Table B1. Coal Producing Districts

District	States	Counties/Mines
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 counties: Armstrong, County (part), all mines east of the Allegheny River, and those mines served by the Pittsburgh and 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 and 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 and Shawmut Railroad; Fayette County (part), all mines except those on and east of the line of Indian Creek Valley branch of the Baltimore and 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 Torrence, 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 Nicholas County (part), all mines served by or north of the Baltimore and 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 ineastern 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.

Table B1. Coal Producing Districts (Continued)

District	States	Counties/Mines
	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.
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	All mines in the following counties: Carbon, Columbia, Dauphin, Lackawanna, Lebanon, Luzerne, Northumberland, Schuylkill, Sullivan, and Susquehanna. All anthracite mines in Bradford County.

Source: U.S. Department of Interior, Bureau of Mines.

Table B2. Electric Utilities Reporting on the FERC Form 423 by State

State	Electric Utility (Holding Company)
Alabama	Alabama Electric Coop Inc
	Alabama Power Co
	Tennessee Valley Authority
Arizona	Arizona Electric Pwr Coop Inc
	Arizona Public Service Co
	Century Power Cooperative
	Salt River Proj Ag I & P Dist
	Tucson Electric Power Co
Arkansas	Arkansas Power & Light Co (MSU)
	Southwestern Electric Power Co (CSW)
California	Burbank City of
	Glendale City of
	Imperial Irrigation District
	Los Angeles City of
	Pacific Gas & Electric Company
	Pasadena City of
	San Diego Gas & Electric Co
	Southern California Edison Co
Colorado	Colorado Springs City of
	Colorado-Ute Electric Assn Inc.
	Platte River Power Authority
	Public Service Co of Colorado
Connecticut	Connecticut Light & Power Co
	United Illuminating Co
Delaware	Delmarva Power & Light Co
	Dover City of
District of Columbia	Potomac Electric Power Co
Florida	Florida Power & Light Co
	Florida Power Corp
	City of Fort Pierre
	Gainesville Regional Utilities
	Gulf Power Co
	Jacksonville Electric Auth
	Lake Worth City of
	Lakeland City of
	Orlando Utilities Comm
	Seminole Electric Coop Inc.
	Tallahassee City of
	Tampa Electric Co
	Vero Beach City of
Georgia	Georgia Power Co (SC)
	Savannah Electric & Power Co
Hawaii	Hawaiian Electric Co Inc.
Illinois	Central Illinois Light Co
	Central Illinois Pub Serv Co
	Commonwealth Edison Co
	Electric Energy Inc.
	Illinois Power Co
	Southern Illinois Power Coop
	Springfield City of
	Union Electric Co
Indiana	Commonwealth Edison Co
	Hoosier Energy R E C Inc.
	Indiana Michigan Power Co (AEP)
	Indiana-Kentucky Electric Corp
	Indianapolis Power & Light Co
	Northern Indiana Pub Serv Co
	Public Service Co of Indiana
	Richmond City of
	Southern Indiana Gas & Electric Co
Iowa	Ames City of
	Cedar Falls City of
	Central Iowa Power Coop
	Interstate Power Co
	Iowa Electric Light & Power Co
	Iowa Power & Light Co
	Iowa Public Service Co
	Iowa Southern Utilities Co
	Iowa-Illinois Gas & Electric Co
	Muscatine City of
Kansas	Centel Corp
	Coffeyville City of
	Empire District Electric Co
	Kansas City City of
	Kansas City Power & Light Co
	Kansas Gas & Electric Co
	Kansas Power & Light Co
	Sunflower Electric Coop Inc.
Kentucky	Big Rivers Electric Corp
	Cincinnati Gas & Electric Co
	East Kentucky Power Coop
	Kentucky Power Co (AEP)
	Kentucky Utilities Co
	Louisville Gas & Electric Co
	Owensboro City of
	Tennessee Valley Authority
Louisiana	Alexandria City of
	Cajun Electric Power Coop Inc
	Central Louisiana Elec Co Inc
	Gulf States Utilities Co
	Lafayette City of
	Louisiana Power & Light Co (MSU)
	New Orleans Public Service Inc (MSU)
	Ruston City of
	Southwestern Electric Power Co (CSW)
Maine	Bangor Hydro-Electric Co
	Central Maine Power Co
Maryland	Baltimore Gas & Electric Co
	Delmarva Power & Light Co Inc
	Potomac Edison Co (APS)
	Potomac Electric Power Co
Massachusetts	Boston Edison Co
	Cambridge Electric Light Co (NEGA)
	Canal Electric Co
	Commonwealth Electric Co (NEGA)
	Holyoke Water Power Co (NU)
	Montaup Electric Co
	New England Power Co (NEES)
	Taunton City of
	Western Massachusetts Elec Co (NU)
Michigan	Consumers Power Co
	Detroit Edison Co
	Detroit City of
	Grand Haven City of
	Holland City of
	Lansing City of
	Marquette City of
	Michigan South Central Pwr Agy
	Wisconsin Electric Power Co
	Wyandotte Municipal Serv Comm
Minnesota	Interstate Power Co
	Minnesota Power & Light Co
	Northern States Power Co
	Otter Tail Power Co
	Rochester City of
Mississippi	Mississippi Power Co (SC)
	Mississippi Power & Light Co (MSU)
	South Mississippi Electric Power Association
Missouri	Associated Electric Coop Inc
	Central Electric Pwr Coop-MO
	Columbia City of
	Empire District Electric Co

Table B2. Electric Utilities Reporting on the FERC Form 423 by State (Continued)

State	Electric Utility (Holding Company)
	Independence City of
	Kansas City Power & Light Co
	Missouri Public Service Comm
	Sikeston City of
	Springfield City of
	St Joseph Light & Power Co
	Union Electric Co
Montana	Montana Power Co
	Montana-Dakota Utilities Co
Nebraska	Central Nebraska Pub P&I Dist
	Fremont City of
	Grand Island City of
	Hastings City of
	Nebraska Public Power District
	Omaha Public Power District
Nevada	Nevada Power Co
	Sierra Pacific Power Co
	Southern California Edison Co
New Hampshire	Public Service Co of NH
New Jersey	Atlantic City Electric Co
	Consolidated Edison Co-NY Inc
	Deepwater Operating Co (ACE)
	Jersey Central Power&Light Co (GPS)
	Public Service Electric&Gas Co
	Vineland City of
New Mexico	Arizona Public Service Co
	El Paso Electric Co
	Plains Elec Gen&Trans Coop Inc
	Public Service Co of NM
	Southwestern Public Service Co
	Texas New Mexico Power Co
New York	Central Hudson Gas & Elec Corp
	Consolidated Edison Co-NY
	Jamestown City of
	Long Island Lighting Co
	New York State Elec & Gas Corp
	Niagara Mohawk Power Corp
	Orange and Rockland Utils Inc
	Power Authority of State of NY
	Rochester Gas & Electric
North Carolina	Carolina Power & Light Co
	Duke Power Co
North Dakota	Basin Electric Power Coop
	Coop Power Assn
	Minnkota Power Coop Inc
	Montana-Dakota Utilities Co
	United Power Assn
Ohio	Cardinal Operating Co (AEP)
	Cincinnati Gas & Electric Co
	Cleveland Electric Illum Co
	Columbus Southern Power Co
	Columbus City of
	Dayton Power & Light Co
	Hamilton City of
	Ohio Edison Co
	Ohio Power Co (AEP)
	Ohio Valley Electric Corp
	Painesville City of
	Toledo Edison Co
Oklahoma	Grand River Dam Authority
	Oklahoma Gas & Electric Co
	Public Service Co of Oklahoma (CSW)
	Western Farmers Elec Coop Inc
Oregon	Portland General Electric Co
Pennsylvania	Duquesne Light Co
	Metropolitan Edison Co (GPS)
	Pennsylvania Electric Co (GPS)
	Pennsylvania Power & Light Co
	Pennsylvania Power Company
	Philadelphia Electric Company
	West Penn Power Co (APS)
Rhode Island	New England Power Co (NEES)
South Carolina	Carolina Power & Light Co
	Duke Power Co
	South Carolina Electric&Gas Co
	South Carolina Pub Serv Auth
South Dakota	Otter Tail Power Co
Tennessee	Tennessee Valley Authority
Texas	Austin City of
	Brazos Electric Power Coop Inc
	Bryan City of
	Central Power & Light Co (CSW)
	Denton City of
	El Paso Electric Co
	Garland City of
	Greenville City of
	Gulf States Utilities Co
	Houston Lighting & Power Co
	Lower Colorado River Authority
	Lubbock City of
	Medina Electric Coop Inc
	San Antonio City of
	San Miguel Electric Coop Inc
	Southwestern Electric Power Company (CSW)
	Southwestern Public Service Co
	Texas Municipal Power Agency
	Texas New Mexico Power Co
	Texas Utilities Electric Co
	West Texas Utilities Co (CSW)
Utah	Deseret Generation and Tran Coop
	Los Angeles City of
	PacifiCorp
Virgina	Appalachian Power Co (AEP)
	Potomac Electric Power Co
	Virginia Electric & Power Co
Washington	PacifiCorp
	Puget Sound Power & Light Co
West Virgina	Appalachian Power Co (AEP)
	Central Operating Co (AEP)
	Monongahela Power Co (APS)
	Ohio Power Co(AEP)
	Virginia Electric & Power Co
Wisconsin	Dairyland Power Coop
	Madison Gas & Electric Co
	Manitowoc City of
	Wisconsin Electric Power Co
	Wisconsin Power & Light Co
	Wisconsin Public Service Corp
Wyoming	Basin Electric Power Coop
	PacifiCorp

Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Appendix C

References

Appendix C

References

1. Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, *Electric Power Annual,* DOE/EIA-0348(89) (Washington DC, 1990).
2. Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, *Electric Power Monthly,* DOE/EIA-0226(91) (Washington DC, 1991).
3. Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, *Inventory of Power Plants in the United States,* DOE/EIA-0095(89) (Washington DC, 1990).
4. Energy Information Administration, Office of Energy Markets and End Use, *Monthly Energy Review,* DOE/EIA-0035(91) (Washington DC, 1991)

Appendix D

Technical Notes

Appendix D

Technical Notes

Sources of Data

The annual report, *Cost and Quality of Fuels for Electric Utility Plants, (C&Q)* is prepared by the Electric Power Division; Office of Coal, Nuclear, Electric and Alternate Fuels; Energy Information Administration (EIA); U.S. Department of Energy (DOE). Statistics published in the *C&Q* are based on data collected on the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"; and the Form EIA-767, "Steam-Electric Plant Operation and Design Report." A brief summary of these two forms is presented below.

FERC Form 423

The FERC Form 423 is a monthly record of received-fuel purchases, submitted by approximately 225 electric utilities for each fossil-fuel plant with a total generator nameplate capacity of 50 or more megawatts.

Instrument and Design History. On July 7, 1972, the Federal Power Commission (FPC) issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, legally creating the FPC Form 423. Originally, the form was used to collect data only on fossil-steam plants, but was amended in 1974 to include data on internal combustion and combustion turbine units. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 eliminated peaking units, which were previously collected on the FPC Form 423. In addition, the generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants.

Data Processing. A 6-month supply of the FERC Form 423 is mailed to respondents semiannually by the EIA. Completed forms are due on or before the 45th day following the end of the reporting month. 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.

An edit program checks the data for errors not found during manual editing. Following verification of the data, computer printouts of aggregated data are produced for inclusion in the publication. After the *Electric Power Monthly (EPM)* is cleared by EIA, the data become available for public use in either custom computer runs, data tapes, or in the publications themselves on a cost-recovery basis. New plants are added to the FERC Form 423 System when respondents indicate the addition of a new plant.

Form EIA-767

The Form EIA-767 is a mandatory restricted-universe census of all operators of plants with a total existing or planned fossil-fueled steam-electric nameplate capacity of 10 or more megawatts. The entire form, including nameplate capacity and environmental equipment, is filed by 700 power plants with a nameplate capacity of 100 or more megawatts. Power plants with a nameplate capacity between 10 and 100 megawatts submit information only on fuel consumption and flue gas desulfurization equipment. The Form EIA-767 is used to collect data annually on plant operations and equipment design (including boiler, generator, cooling system, flue gas desulfurization, flue gas particulate collectors, and stack data). Data from the Form EIA-767 are used for economic, regulatory, and environmental analyses conducted by the DOE, the FERC, the Environmental Protection Agency, and the Department of Commerce.

Instrument and Design History. The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data. The Federal Power Commission (FPC) used the predecessor Form FPC-67, "Steam-Electric Plant Air and Water Quality Control Data," to collect data from 1969 to 1980, when the form was changed to the Form EIA-767. In 1982, the form was completely redesigned and renamed as the Form EIA-767, "Steam-Electric Plant Operation and Design Report." In 1986, the respondent universe of 700 was increased to 900 to include plants with a nameplate capacity from 10 to 100 megawatts. Respondents for these additional 200 plants complete only pages 1, 6, and, if applicable, 13 and 14.

Data Processing. The Form EIA-767 is mailed to respondents in January to collect data as of the end of the preceding calendar year. The completed forms are to be returned to the EIA by May 1. Data on equipment design for each respondent are preprinted from the applicable data base. Respondents are instructed to verify all preprinted data and to supply missing data. The data are manually edited before being keyed for automatic data processing. Computer programs containing additional edit checks are then run. Respondents are telephoned to obtain missing data.

Quality of Data

The Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF) 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 CNEAF 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 manually spot checked against the forms to certify accuracy of the tapes. To ensure 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 erroneous entries in the data bases over time as the parameters of the algorithm are updated to reflect new data. 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 CNEAF 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. It also validates the actual performance of working data collection systems, once fielded.

Data Editing System

Automated systems are used to edit data from the survey 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.

Confidentiality of the Data

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

Formulas

Data from the FERC Form 423 are submitted at the plant level. These data are then used in the following formulas to produce aggregates and averages for each fuel type at the State, Census division, and U.S. levels.

For these formulas, let Σ represent the summation of all plants in a geographic region. Costs for each fuel type are reported in cents per million Btu. Additionally,

- For coal, receipts (R) are reported in tons, and units for average heat content (A) are in Btu per pound, and the unit conversion (U) is 2,000 pounds per ton;
- For petroleum, receipts (R) are reported in barrels, and units for average heat content (A) are in Btu per gallon; and the unit conversion (U) is 42 gallons per barrel;
- For gas, receipts (R) are reported in thousand cubic feet (Mcf), and units for average heat content (A) are in Btu per cubic foot, and the unit conversion (U) is 1,000 cubic feet per Mcf.

$$\text{Total Btu} = \sum_i (R_i \times A_i \times U)$$

Where:

i denotes a plant
R_i = receipts for plant i
A_i = average heat content for receipts, plant i
U = unit conversion

$$\text{Weighted Average Btu} = \frac{\sum_i (R_i \times A_i)}{\sum_i R_i}$$

Where:

i denotes a plant
R_i = receipts for plant i
A_i = average heat content for receipts, plant i

$$\text{Weighted Average Cost} = \frac{\sum_i (R_i \times A_i \times C_i)}{\sum_i (R_i \times A_i)}$$

Where:

i denotes a plant
R_i = receipts for plant i
A_i = average heat content for receipts, plant i
C_i = fuel cost in cents per million Btu, plant i

$$\text{Weighted Average Cost} = \frac{U \sum_i (R_i \times A_i \times C_i)}{(10^8 \frac{cents}{dollar}) \sum_i R_i}$$

Where:

i denotes a plant
R_i = receipts for plant i
A_i = average heat content for receipts, plant i
U = unit conversion
C_i = fuel cost in cents per million Btu, plant i

* "Unit" = short ton for coal, barrel for petroleum, and thousand cubic feet for gas.

Rounding Rules for Data

Given an n digit number with r digits to the left of the decimal and d+t digits in the fractional 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 *.

Data Correction Procedure

The CNEAF office has adopted the following policy with respect to the revision and correction of data published in energy data reports and made available in a machine format:

1. All data collected by this office (excluding secondary source data) will be published as preliminary data when first appearing in an energy data report.
2. The next publication of the data will be in final form at which point the data base is closed.
3. Revisions or corrections will be made only in the event a substantial (greater than 1 percent) reporting change is received or a substantial (greater than 1 percent) error is discovered.
4. Revisions or corrections to published secondary source data will be made if and when the organization from which the data were received revises or corrects the data.
5. No revisions will be made without the approval of the Director, Electric Power Division.

A comparison of preliminary data published in the *Electric Power Monthly* versus final published data is provided in Table D1.

Use of the Glossary

The terms in the glossary have been defined for general use. Restrictions on the definitions as used in these data collection systems are included in each definition when necessary to define the terms as they are used in this report.

Table D1. Comparison of Preliminary Versus Final Published Data at the National Level, 1990

Item	Preliminary	Final	Percent Change
Receipts			
Coal (1,000 short tons)	786,557	786,627	0.01
Petroleum (1,000 barrels)	209,309	209,350	.02
Gas (million cubic feet)	2,489,885	2,490,979	.04
Average Cost (cents per million Btu)			
Coal	145.4	145.5	.07
Petroleum	338.3	338.4	.03
Gas	232.1	232.1	0

Note: Percent change is calculated before rounding.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Obtaining Copies of Data

Upon EIA approval of the *Electric Power Monthly*, the data become available for public use on a cost-recovery basis. Computer listings are obtained by submitting a written request to:

Energy Information Administration, EI-541
Forrestal Building
U. S. Department of Energy
Washington, DC 20585

These data are also available monthly on machine-readable tapes. Tapes may be purchased by using Visa, Master Card, or American Express cards as well as money orders or checks payable to the National Technical Information Service (NTIS). Purchasers may also use NTIS and GPO depository accounts. To place an order, contact:

National Technical Information Service (NTIS)
Office of Data Base Services
U.S. Department of Commerce
5285 Port Royal Road
Springfield, Virginia 22161
(703) 487-4650

Glossary

Anthracite: A hard, black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. Comprises three groups classified according to the following ASTM Specification D388-84, on a dry mineral-matter-free basis:

	Fixed Carbon Limits		Volatile Matter	
	GE	LT	GT	LE
Meta-Anthracite	98	-	-	2
Anthracite	92	98	2	8
Semianthracite	86	92	8	14

Ash: Impurities consisting of silica, iron, alumina, and other noncombustible matter that are contained in coal. Ash increases the weight of coal, adds to the cost of handling, and can affect its burning characteristics. Ash content is measured as a percent by weight of coal on an "as received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

Barrel: A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons.

Bbl: The abbreviation for barrel.

Bcf: The abbreviation for 1 billion cubic feet.

Bituminous Coal: The most common coal. It is dense and black (often with well-defined bands of bright and dull material). Its moisture content usually is less than 20 percent. It is used for generating electricity, making coke, and space heating. Comprises five groups classified according to the following ASTM Specification D388-84, on a dry mineral-matter-free (mmf) basis for fixed-carbon and volatile matter and a moist mmf basis for calorific value.

	Fixed Carbon Limits		Volatile Matter Limits		Calorific Value Limits Btu/lb	
	GE	LT	GT	LT	GE	LE
LV	78	86	14	22	-	-
MV	69	78	22	31	-	-
HVA	-	69	31	-	14000	-
HVB	-	-	-	-	13000	14000
HVC	-	-	-	-	10500	13000

LV = Low-volatile bituminous coal
MV = Medium-volatile bituminous coal
HVA = High-volatile A bituminous coal
HVB = High-volatile B bituminous coal
HVC = High-volatile C bituminous coal

Btu (British Thermal Unit): A standard unit for measuring the quantity of heat energy equal to the quantity of heat required to raise the temperature of 1 pound of water by 1 degree Fahrenheit.

Capacity: The full-load continuous rating of a generator, prime mover, or other electric equipment under specified conditions as designated by the manufacturer. It is usually indicated on a nameplate attached to the equipment.

Capacity (Purchased): The amount of energy and capacity available for purchase from outside the system.

Census Divisions: The nine geographic divisions of the United States established by the Bureau of the Census, U.S. Department of Commerce, for statistical analysis. The boundaries of Census divisions coincide with State boundaries. The Pacific Division is subdivided into the Pacific Contiguous and Pacific Noncontiguous areas.

Coal: A black or brownish-black solid combustible substance formed by the partial decomposition of vegetable matter without access to air. The rank of coal, which includes anthracite, bituminous coal,

subbituminous coal, and lignite, is based on fixed carbon, volatile matter, and heating value. Coal rank indicates the progressive alteration from lignite to anthracite. Lignite contains approximately 9 to 17 million Btu per ton. The contents of subbituminous and bituminous coal range from 16 to 24 million Btu per ton and from 19 to 30 million Btu per ton, respectively. Anthracite contains approximately 22 to 28 million Btu per ton.

Coal-Producing Districts: A classification of coal fields defined in the Bituminous Coal Act of 1937. The districts were originally established to aid in formulating minimum prices of bituminous and subbituminous coal and lignite. Because much statistical information was compiled in terms of these districts, their use for statistical purposes has continued since the abandonment of that legislation in 1943. District 24 was added for the anthracite-producing district in Pennsylvania.

Code of Federal Regulations: A compilation of the general and permanent rules of the executive departments and agencies of the Federal Government as published in the Federal Register. The Code is divided into 50 titles which represent broad areas subject to Federal regulation. Title 18 contains the FERC's regulations.

Coke (Petroleum): A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is 5 barrels (42 U.S. gallons each) per short ton.

Consumption (Fuel): The amount of fuel used for gross generation, providing standby service, start-up and/or flame stabilization.

Contract Cost: The delivery cost determined when a contract is signed. It may be a fixed cost or a base cost escalated according to a given formula.

Contract Price: Price of fuels marketed on a contract basis covering a period of 1 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 are adjusted through escalation clauses. Generally, contract prices do not fluctuate widely.

Contract Receipts: Purchases based on a negotiated agreement that generally covers a period of 1 or more years.

Cost: The amount paid to acquire resources, such as plant and equipment, fuel, or labor services.

Delivered Cost: The cost of fuel, free on board (f.o.b.) plant. Included is the invoice price of fuel, transportation charges, taxes, commissions, insurance, and expenses associated with leased or owned equipment used to transport the fuel.

Distillate Fuel Oil: A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on-and-off-highway diesel engine fuel (including railroad engine fuel and fuel for agriculture machinery), and electric power generation. Included are Fuel Oils No. 1, No. 2, and No. 4; and Diesel Fuels No. 1, No. 2, and No. 4.

Electric Plant (Physical): A facility containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Utility: An enterprise that is engaged in the generation, transmission, or distribution of electric energy primarily for use by the public and that is the major power supplier within a designated service area. Electric utilities include investor-owned, publicly owned, cooperatively owned, and government-owned (municipals, Federal agencies, State projects, and public power districts) systems.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Information Administration (EIA): An independent agency within the U.S. Department of Energy

that develops surveys, collects energy data, and does analytical and modeling analyses of energy issues. The Agency must satisfy the requests of Congress, other elements within the Department of Energy, Federal Energy Regulatory Commission, the Executive Branch, its own independent needs, and assist the general public, or other interest groups, without taking a policy position.

Federal Energy Regulatory Commission (FERC): A quasi-independent regulatory agency within the Department of Energy having jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification.

Federal Power Commission: The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission (FPC) was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. The FPC was abolished on September 20, 1977, when the Department of Energy was created. The functions of the FPC were divided between the Department of Energy and the Federal Energy Regulatory Commission.

FERC Guidelines: A compilation of the Federal Energy Regulatory Commission's enabling statutes, procedural and program regulations, and orders, opinions and decisions.

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

Flue Gas Desulfurization Unit (Scrubber): Equipment used to remove sulfur oxides from the combustion gases of a boiler plant before discharge to the atmosphere. Chemicals, such as lime, are used as the scrubbing media.

Fossil Fuel: Any naturally occurring organic fuel, such as petroleum, coal, and natural gas.

Fossil-Fuel Plant: A plant using coal, petroleum, or gas as its source of energy.

Fuel: Any substance that can be burned to produce heat; also, materials that can be fissioned in a chain reaction to produce heat.

Gas: A fuel burned under boilers and by internal combustion engines for electric generation. These include natural, manufactured and waste gas.

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

Generator Nameplate Capacity: The full-load continuous rating of a generator, prime mover, or other electric power production equipment under specific conditions as designated by the manufacturer. Installed generator nameplate rating is usually indicated on a nameplate physically attached to the generator.

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 petroleum used in steam plants is heavy oil.

Holding Company: A company that confines its activities to owning stock in, and supervising management of, other companies. The Securities and Exchange Commission, as administrator of the Public Utility Holding Company Act of 1935, defines a holding company as "a company which directly or indirectly owns, controls or holds 10 percent or more of the outstanding voting securities of a holding company" (15 USC 79b, par. a (7)).

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 or gas-fired engines are the principal types used in electric plants. The plant is usually operated during periods of high demand for electricity.

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.

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

Lignite: A brownish-black coal of low rank with high inherent moisture and volatile matter (used almost exclusively for electric power generation). It is also referred to as brown coal. Comprises two groups classified according to the following ASTM Specification D388-84 for calorific values on a moist material-matter-free basis:

	Limits Btu/lb.	
	GE	LT
Lignite A	6300	8300
Lignite B	-	6300

MMBtu: An abbreviation for 1 million British thermal units, which is an energy or heating value measurement that is normally used for petroleum and gas applications.

Mcf: One thousand cubic feet.

Megawatt (MW): One million watts.

Megawatthour (MWh): One million watthours.

MMcf: One million cubic feet.

Natural Gas: A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in porous geological formations beneath the earth's surface, often in association with petroleum. The principal constituent is methane.

Net Summer Capability: The steady hourly output, which generating equipment is expected to supply to system load exclusive of auxiliary power, as demonstrated by tests at the time of summer peak demand.

No. 2 Fuel Oil: A distillate fuel oil for use in atomizing-type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D396 for this grade distillation specifies temperatures at the 90-percent point of between 540 degrees and 640 degrees Fahrenheit, and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees Fahrenheit.

No. 4 Fuel Oil: A fuel oil for commercial burner installations not equipped with preheating facilities; used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conform to ASTM Specification D396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees Fahrenheit. Also included is No. 4-D, a fuel oil for low-speed and medium-speed diesel engines that conform to ASTM Specification D975.

Off-Peak Gas: Gas that is to be delivered and taken on demand when demand is not at its peak.

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.

Percent Difference: The relative change in a quantity over a specified time period. It is calculated as follows: the current value has the previous value subtracted from it; this new number is divided by the absolute value of the previous value; then this new number is multiplied by 100.

Petroleum: A mixture of hydrocarbons existing in the liquid state found in natural underground reservoirs, often associated with gas. Petroleum includes fuel oil No. 2, No. 4, No. 5, No. 6; topped crude; Kerosene; and jet fuel.

Petroleum Coke: See Coke (Petroleum).

Petroleum (Crude Oil): A naturally occurring, oily, flammable liquid composed principally of hydrocarbons. Crude oil is occasionally found in springs or pools but usually is drilled from wells beneath the earth's surface.

Plant: A facility at which are located prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or nuclear energy into electric energy. A plant may contain more than one type of prime mover. Electric utility plants exclude facilities that satisfy the definition of a qualifying facility under the Public Utility Regulatory Policies Act of 1978.

Price: The amount of money or consideration-in-kind for which a service is bought, sold, or offered for sale.

Prime Mover: The motive force, i.e., steam, engine, turbine, or water that drives an electric generator.

Receipts: Purchases of fuel.

Residual Fuel Oil: The topped crude of refinery operation, includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D396 and Federal Specification VV-F-815C; Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77); and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes. Imports of residual fuel oil include imported crude oil burned as fuel.

Restricted-Universe Census: This is the complete enumeration of data from a specifically defined subset of entities including, for example, those that exceed a given level of sales or generator nameplate capacity.

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

Spot Purchases: A single shipment of fuel or volumes of fuel, purchased for delivery within 1 year. Spot purchases are often made by a user to fulfill a certain portion of energy requirements, to meet unanticipated energy needs, or to take advantage of low-fuel prices.

Steam-Electric Plant (Conventional): A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

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

Subbituminous Coal: Subbituminous coal, or black lignite, is dull black and generally contains 20 to 30 percent moisture. The heat content of subbituminous coal ranges from 16 to 24 million Btu per ton as received and averages about 18 million Btu per ton. Subbituminous coal, mined in the western coal fields, is used for generating electricity and space heating.

Sulfur: One of the elements present in varying quantities in coal which contributes to environmental degradation when coal is burned. In terms of sulfur content by weight, coal is generally classified as low (less than or equal to 1 percent), medium (greater than 1 percent and less than or equal to 3 percent), and high (greater than 3 percent). Sulfur content is measured as a percent by weight of coal on an "as received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

Surface Mine: A coal-producing mine that is usually within a few hundred feet of the surface. Earth above or around the coal (overburden) is removed to expose the coalbed, which is then mined with surface excavation equipment such as draglines, power shovels, bulldozers, loaders, and augers. It may also be known as an area, contour, open-pit, strip, or auger mine.

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

Turbine: A machine for generating rotary mechanical power from the energy of a stream of fluid (such as water, steam, or hot gas). Turbines convert the kinetic energy of fluids to mechanical energy through the principles of impulse and reaction, or a mixture of the two.

Underground Mine: A mine where coal is produced by tunneling into the earth to the coalbed, which is then mined with underground mining equipment such as cutting machines and continuous, longwall, and shortwall mining machines. Underground mines are classified according to the type of opening used to reach the coal, i.e., drift (level tunnel), slope (inclined tunnel), or shaft (vertical tunnel).

Watt: The electrical unit of power. The rate of energy transfer equivalent to 1 ampere flowing under a pressure of 1 volt at unity power factor.

Watthour (Wh): An electrical energy unit of measure equal to 1 watt of power supplied to, or taken from, an electric circuit steadily for 1 hour.

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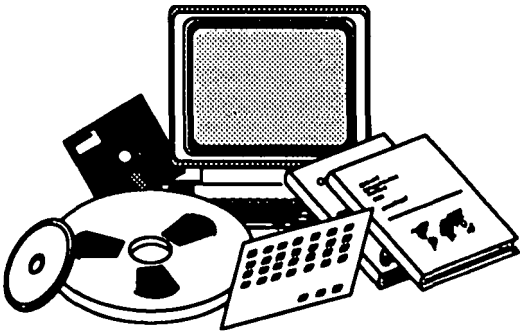

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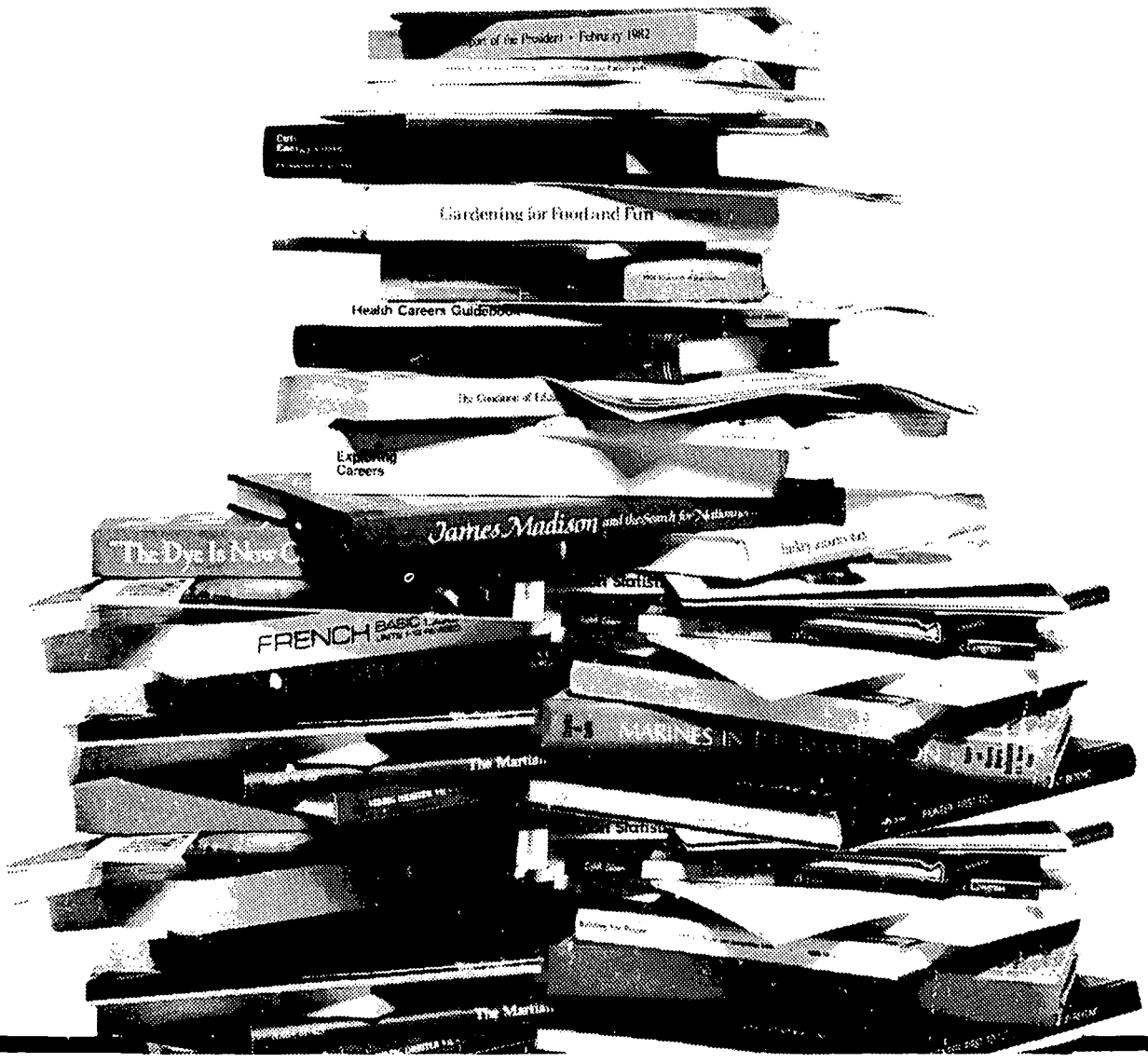

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