

Cost and Quality of Fuels for Electric Utility Plants 1998 Tables

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The annual publication *Cost and Quality of Fuels for Electric Utility Plants (C&Q)* is no longer published by the EIA. The tables presented in this document are intended to replace that annual publication. Questions regarding the availability of these data should be directed to:

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Preface

Background

The *C&Q Tables* are prepared by the Electric Power Division; Office of Coal, Nuclear, Electric and Alternate Fuels; Energy Information Administration (EIA); U.S. Department of Energy. These tables provide comprehensive information concerning the quality, quantity, and cost of fossil fuels used to produce electricity in the United States.

Coverage of Sources

The information contained in the tables is compiled from data reported on the FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The FERC Form 423 is a monthly survey of a restricted census that collects data from steam-electric and combined-cycle plants with a total generator nameplate capacity of 50 or more megawatts (approx-

mately 700 power plants operated by 230 electric utilities). Data on gas-turbines and internal combustion units are not collected on this survey, nor is their generating capacity used to determine the 50-megawatt threshold for reporting that was set by the FERC.

Fuel receipts reported on the FERC Form 423 include over 99 percent of coal and approximately 90 percent of petroleum and gas delivered to electric utilities. The percent of coverage is lower for petroleum and gas because the survey does not collect data on fuel received for use in gas-turbines or internal combustion units. Power plants that report on the FERC Form 423 represent approximately 90 percent of all electric utility fossil-fuel generating capacity in the United States. The geographic coverage of the survey includes the contiguous United States, Alaska, Hawaii, and the District of Columbia. Data on non-utility power plants are not collected on this survey.

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Utility Fossil Fuel Receipts and Costs - Year in Review

In 1998, final data show that electric generating plants owned by electric utilities received 929 million short tons of coal, 165 million barrels of petroleum products, and 2,923 billion cubic feet (Bcf) of gas at a total delivered cost of \$33 billion.¹ Coal accounted for 82.5 percent of total Btu content of fossil fuels delivered in 1998, while gas and petroleum accounted for 13 and 4.5 percent, respectively. The average cost of fossil fuels delivered to these plants in 1998 was \$1.44 per million Btu, the lowest annual cost since 1978. (Due to restructuring of the electric power industry, several generating plants owned and operated by electric utilities were sold in 1998 to nonutility power producers and reclassified as nonutility generating plants. At the completion of the sale, these plants were no longer required to file receipt and cost data on the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and generation, consumption, and stock data on the Energy Information Administration (EIA) Form 759, "Monthly Power Plant Report." Therefore, the 1998 databases for these two surveys include only partial reporting of monthly data by these generating plants. The 1997 databases include a full year of monthly data. A list of plants sold during 1998 can be found in the *Electric Power Monthly*.)

Electric utility plants received a record 929 million short tons of coal in 1998, up from 881 million short tons received in 1997. This increase was primarily due to record demand for coal-fired generation, and to the rebuilding of coal stocks as they relate to the resumption of coal deliveries via the Union Pacific Railroad to near normal levels from the reduced levels of 1997. Factors that either directly or indirectly limited coal receipts included the sale of eight coal-fired electric utility plants, and near record nuclear generation.

In 1998, coal-fired generation totaled a record 1,807 terawatt-hours (TWh),² up 1 percent from the 1,788 TWh reported in 1997. Likewise, coal consumption totaled a record 911 million short tons, up from 900 million short tons in 1997. This ultimately led to an increase in coal receipts at electric utilities. Contributing to record coal-fired generation and demand for

coal was a strong economy (indicated in-part by record electricity sales to the industrial sector), a decrease in hydroelectric generation, and warmer-than-normal summer weather. Hydroelectric generation, which typically displaces fossil-fired generation, fell 10 percent from 1997 levels. The above-normal summer temperatures resulted in record coal-fired generation for June, July, and August. Coal consumption during this period was at an all-time high of 253 million short tons while receipts of coal totaled a record 238 million short tons. August set a monthly record for coal receipts at 82 million short tons. According to data from the National Oceanic and Atmospheric Administration (NOAA), the summer of 1998 was the ninth warmest since record keeping began in 1895.³

The return to near normal coal deliveries via the Union Pacific Railroad (UPRR) was also a positive factor for coal receipts in 1998. During the second half of 1997, operational problems on the UPRR resulted in rail congestion and negatively impacted receipts of coal to the West North Central and West South Central Census divisions. Receipts of contracted coal at some plants were so far behind schedule that some electric utilities had to reduce coal-burn in order to conserve stocks. By mid 1998, through the combination of UPRR having solved many of their problems and the cooperation and help of other railroads, coal deliveries and stocks returned to near normal levels. In fact, end-of-year stocks levels in the West North Central and West South Central Census divisions were above the 1997 end-of-year levels by 32 and 30 percent, respectively. Nationwide, end-of-year stocks of coal were 121 million short tons, up from 99 million short tons at the end of 1997. Much higher levels of stocks (for the most part unrelated to improvements on the UPRR) are also notable in the East North Central and South Atlantic Census divisions. Combined, these two Census divisions accounted for an 11-million-short-ton increase in stocks. Also contributing to an increase in end-of-year stocks at the National level was the second warmest autumn on record since 1895.⁴ The above normal autumn temperatures that reduced heating loads, coupled with consistently high levels of nuclear generation during the

¹ Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." This survey covers over 99 percent of all coal and approximately 90 percent of the petroleum and gas delivered to electric utilities. It does not include any data on fuel receipts and costs at nonutility generating plants.

² A terawatt-hour is equal to one billion kilowatt-hours.

³ National Oceanic and Atmospheric Administration, National Climatic Data Center, extracted from the Internet at <http://www.ncdc.noaa.gov/ol/climate/research/1998/aug/aug98.html> on April 6, 1999.

⁴ U.S. Department of Agriculture, Weekly Weather and Crop Bulletin (January 20, 1999).

September through November period, reduced demand for coal-fired generation.

The sale of eight electric plants in 1998 also affected end-of-year stock data. Had these plants reported end-of-year stocks in 1998, and if these stocks had been reported at 1997 end-of-year levels, total coal stocks would have increased by an additional 1.5 million short tons. Overall, the reported 22-million-short-ton increase in stocks was a factor in electric utilities receiving record coal receipts in 1998.

The sale of eight electric utility plants and their reclassification as nonutility plants reduced coal receipts in 1998. These eight plants include State Line (Commonwealth Edison Company of Indiana), Kincaid (Commonwealth Edison Company), Coleman, Green, Reid-Henderson, and Wilson (Big Rivers Electric Corporation), and Brayton Point and Salem Harbor (New England Power Company). Receipts of fuel were reported for these plants on FERC Form 423 until the month the sale became official and the facility was reclassified as a nonutility generating plant. If these plants had reported a full year of data and if receipts for each month after the sale were reported at 1997 levels, total receipts would have increased by an additional 6.5 million short tons.

Continuing the downward trend of the past 12 years, the average delivered cost of coal decreased to \$1.25 per million Btu, down from the \$1.27 per million Btu in 1997.⁵ Contributing to this lower cost of coal were the continuing expiration, renegotiation, and buyouts of older, high-priced contracts, improved efficiency in coal production and transportation, increased use of low-cost western coal, and, to some extent, excess production capacity. The average cost of coal delivered under contract in 1998 was \$1.27 per million Btu, down from \$1.29 per million Btu in 1997. Coal purchased on the spot-market (contracts of less than one year duration) decreased to \$1.20 per million Btu, down from the \$1.21 per million Btu in 1997.

The average sulfur content (measured as percent sulfur by weight) of coal delivered in 1998 was 1.06 percent, down from 1.11 percent in 1997. The average Btu content of coal was 10,241 per pound, down from 10,275 per pound in 1997. Over the past several years, the average sulfur and Btu content of coal have been trending downward as electric utilities have increased their use of low-sulfur, low-Btu western coal from the Powder River Basin (PRB) of Montana and Wyoming. Receipts of coal from the PRB totaled 301 million short tons versus 294 million short tons in 1997. The Western region was the origin for a record 430 million short tons (46 percent of all coal receipts), up from 390 million short tons (44 percent) in 1997. Receipts of coal from Wyoming totaled 305 million short tons, up 35 million short tons or 13 percent from 1997. Receipts of coal from Montana rose 2 million short tons to reach the 40-million-short-ton level. Receipts of coal from the Appalachian region totaled 318 million short tons versus 308 million in 1997.

Coal receipts from Pennsylvania rose 5 million short tons to reach 58 million short tons. This was the largest volume change of any coal producing State in the Appalachian region. Receipts of coal (excluding lignite) from the Interior region totaled 99 million short tons, down from 100 million in 1997. The largest change in volume occurred in Indiana, which shipped an additional 3 million short tons to electric utilities in 1998. Receipts of lignite from Louisiana, Montana, North Dakota, and Texas remained unchanged at 77 million short tons. Wyoming ranked highest among coal producing States with 305 million short tons of coal delivered to electric utilities. Kentucky and West Virginia were ranked second and third with 120 million short tons and 106 million short tons, respectively. Imports of coal rose to 6 million short tons, up from 5 million short tons in 1997. The origin for most imported coal was Colombia and Venezuela. Electric utilities receiving at minimum 500,000 short tons of imported coal include Jacksonville Electric Authority, New England Power Company, Central Hudson Gas & Electric Company, and Tampa Electric Company.

Petroleum. Receipts of petroleum at electric utilities totaled 165 million barrels, up from 118 million barrels received in 1997. This was the third consecutive yearly increase and the highest level reported since 1991. The increase in 1998 was primarily fueled by a substantial decrease in the cost of crude oil and related products. Receipts to the South Atlantic Census division soared to 75 million barrels or 45 percent of all receipts, up from 45 million barrels and 38 percent in 1997. Receipts of petroleum to Florida were the highest of any State at 60 million barrels, up from 38 million in 1997. Contributing to the increase was the low-cost of Number 6 fuel oil which made it attractive for baseload generation, and the fact that, Florida endured its warmest summer on record, according to NOAA. This contributed to record electric generation and higher demand for heavy fuel oil. Receipts to the Middle Atlantic Census division rose to 32 million barrels, up from 19 million barrels in 1997. Electric plants in New York, which are still dependant on petroleum as a baseload fuel, received 23 million barrels.

Receipts to the New England Census division totaled 36 million barrels, down approximately 0.6 million barrels from 1997 levels. This decrease in receipts was primarily due to the sale of the Mystic (Boston Edison Company) and Salem Harbor (New England Power Company) generating stations, and to some degree, higher nuclear generation. (If these plants had reported a full year of data and if receipts for each month after the sale were reported at 1997 levels, total petroleum receipts to the New England Census division would have increased by an additional 6 million barrels.) The sale of electric plants was not a significant factor affecting petroleum receipts and consumption in other Census divisions. Combined, the New England, Middle Atlantic, and South Atlantic

⁵ The delivered cost of fossil fuels includes all costs (i.e., transportation, taxes, etc.) incurred by the electric utility for delivery of the fuel to the plant. It does not include unloading charges.

Census divisions accounted for 86 percent of all petroleum receipts, up from 85 percent in 1997.

Petroleum coke receipts at electric utilities totaled 3 million short tons, up from 2 million short tons in 1997. The Jacksonville Electric Authority received nearly 873,000 short tons, up from 630,000 short tons in 1997. Northern States Power Company, Pennsylvania Power & Light Company, and Seminole Electric Cooperative also received substantial quantities of this fuel. Petroleum coke is gaining more acceptance at electric utilities due to its high Btu content and low-cost per million Btu. The average delivered cost of petroleum coke was \$0.71 per million Btu, compared to \$0.91 in 1997. A negative factor associated with this fuel is its high sulfur content which ranges between 4 and 6 percent. Petroleum coke is usually blended with a higher percentage of lower sulfur coal before it is burned in the boiler.

In 1998, the average cost of petroleum delivered to electric utilities was \$2.14 per million Btu compared with \$2.88 per million Btu in 1997. This was the lowest average annual cost since 1976. In December, the average cost fell to \$1.84 per million Btu, the lowest monthly cost since January 1974. A worldwide supply/demand imbalance in crude oil was responsible for a substantial decrease in petroleum-product prices. The magnitude of the decline can be seen in the refiner acquisition cost of crude oil which fell from \$19.04 per barrel in 1997 to \$12.57 per barrel in 1998, its lowest level since 1978.⁶ The average cost of Number 2 fuel oil was \$3.30 per million Btu, down from \$4.49 per million Btu reported in 1997. This fuel is used primarily for start-up and flame stabilization at steam-electric plants. The average cost of heavy fuel oil (Number 4, 5, and 6 fuel oil) was \$2.08 per million Btu, compared to \$2.79 per million Btu in 1997. The decrease in petroleum costs resulted in the annual average delivered cost of heavy oil being less expensive than natural gas for the first time since 1993, and only the second time since data collection began in 1972. This is important when considering the capability of many electric plants to burn the least expensive of the two fuels.

Gas. Receipts of gas to electric utilities totaled 2,923 billion cubic feet (Bcf), up from 2,765 Bcf reported in 1997. The sale of several electric plants and their reclassification to nonutility status affected receipts in 1998. (If these plants had reported a full year of data and if receipts for each month after the sale were reported at 1997 levels, gas receipts in 1998 would have totaled approximately 3,100 Bcf.) The average cost of gas was \$2.38 per million Btu, down from \$2.76 reported in 1997. Receipts to the West South Central Census division rose by 266 Bcf with Texas accounting for 192 Bcf of the increase. The substantial rise in gas receipts and consumption in Texas was mainly due to the State experiencing its warmest April through July period on record.⁷ On the other hand, California reported gas receipts of 267

Bcf, down from 375 Bcf in 1997. This was due to the sale and reclassification to nonutility status of several gas-fired electric plants owned by Pacific Gas & Electric Company and Southern California Edison Company. (If these plants had reported a full year of data and if receipts for each month after the sale were reported at 1997 levels, gas receipts to California in 1998 would have totaled approximately 410 Bcf.) One might expect that the 13-TWh increase in generation from hydroelectric and nuclear plants in California might have displaced gas-fired generation (and receipts) in 1998. However, a substantial decrease in hydroelectric generation in both Oregon and Washington reduced exports of electricity from these States into California. Therefore, California needed to generate more of its own electricity requirements.

Receipts of gas to the New England Census division totaled 47 Bcf, down from 95 Bcf in 1997. Receipts were affected by the sale and reclassification of the Manchester Street plant owned by New England Power Company and the New Boston and Mystic plants owned by the Boston Edison Company. (If these plants had reported a full year of data and if receipts for each month after the sale were reported at 1997 levels, total gas receipts to the New England Census division in 1998 would have increased by an additional 32 Bcf. However, a 32-percent increase in nuclear generation coupled with petroleum costs that were substantially below the cost of natural gas would have limited the use of gas at these plants in 1998.)

In the South Atlantic Census Division, receipts of gas were 285 Bcf, down from 311 Bcf reported in 1997. Receipts of gas to Florida decreased 35 Bcf, due in-part to competition from low-cost heavy fuel oil. Several plants, especially those that are operated by Florida Power & Light Company (FP&L), can switch between petroleum and gas in order to burn the least expensive fuel. FP&L received 190 Bcf of gas, down from 222 Bcf in 1997, while petroleum receipts rose from 25 million barrels to 41 million barrels. The average cost of gas for FP&L was \$2.76 per million Btu compared to \$2.08 per million Btu for petroleum.

Hydro and Nuclear Generation Effects on Fossil-Fuel Requirements.

Hydroelectric generation totaled 304 TWh, down 10 percent from a record 337 TWh generated in 1997. However, 1998 was the third consecutive year that generation topped the 300-TWh level, something that has not happened since the years 1982 through 1984. Since hydroelectric generation is the lowest cost power to generate, it does displace the use of fossil-fuels by electric utilities. This is especially important in the Pacific Contiguous Census division where more than one-half of the Nations' hydropower is generated. In 1998, hydroelectric generation in California rose by 23 percent due to higher-than-normal levels of precipitation and to an April 1998 snowpack in the Sierra

⁶ Energy Information Administration, Monthly Energy Review (MER), DOE/EIA-0035(99/03) (Washington, DC, March 1999), Table 9.1.

⁷ National Oceanic and Atmospheric Administration, National Climatic Data Center; extracted from the Internet at <http://www.ncdc.noaa.gov/ol/climate/research/1998/aug/aug98.html> on April 7, 1999.

Nevada mountains that was more than 130 percent above normal. This compares with very little snowpack in 1997.⁸ (The snowpack and subsequent melting are very important to help maintain streamflow and reservoir levels into the summer months). To the north, both Oregon and Washington began 1998 with a mountain snowpack that was considerably below the level of January 1, 1997. By April 1, 1998, the snowpack in the Columbia River Basin was only 81 percent of normal as compared to nearly 140 percent of normal on April 1, 1997.⁹ This was the primary reason for Oregon and Washington reporting decreases in hydroelectric generation of 15 and 23 percent, respectively. The net result for the Pacific Contiguous Census division was an 11-percent decrease in hydroelectric generation from 1997. The availability of hydroelectric generation in the Pacific Northwest is reflected in the activity of the coal-fired Boardman plant, owned by Oregon-based Portland General Electric Company. The amount of generation produced by Boardman is directly dependant on the availability of hydroelectric power. The less hydroelectric power that is available in the region, the more Boardman is operated to produce electricity. This was evident in 1998 as coal receipts, consumption, and generation at Boardman more than doubled from the levels of 1997.

Though hydroelectric generation at the National level and, in particular, Oregon and Washington, showed a substantial decrease from 1997 levels, the Nation actually recorded its fifth wettest year on record compared to the forty-fourth wettest in 1997.¹⁰ The Northwest Region, the NOAA region that includes Idaho, Oregon, and Washington, actually had its sixth wettest year on record in 1998 as compared with its sixteenth wettest in 1997. However, the seasonal distribution and variation of precipitation in 1998, coupled with below normal levels of snowpack in the Pacific Northwest at the start of the year, was not as favorable for hydroelectric generation as it was in 1997. As for the remainder of the Nation, all Census divisions, except the South Atlantic Census division, reported decreases in hydroelectric generation. In addition to Oregon and Washington, other States with significant hydroelectric generating capacity that also reported decreases in hydroelectric generation included Alabama, Arizona, Idaho, Montana, New York, and South Dakota.

Nuclear generation was also an important factor affecting fossil-fuel use by electric utilities. In 1998,

nuclear generation totaled 674 TWh, 7 percent higher than the 629 TWh produced in 1997. This was just shy of the record 675 TWh of nuclear generation produced in 1996. The annual capacity factor¹¹ for nuclear plants was 78 percent compared with 71 percent in 1997. This was the highest annual capacity factor for nuclear plants since data collection began in 1973.¹² The December 1998 capacity factor was an impressive 87 percent. This has major implications on the fossil-fuel requirements of electric utilities due to the fact that like hydroelectric power, nuclear generation also displaces fossil-fired generation. (Based on national level consumption and generation data presented in the Electric Power Monthly, and assuming a net summer nuclear capability of 99,000 megawatts, a 1-percent increase in the annual nuclear plant capacity factor (equivalent to 8,672,400 megawatthours (MWh)¹³ of additional nuclear generation) translates into a reduction in annual consumption of either 4.4 million short tons of coal,¹⁴ 14 million barrels of petroleum, or 92 billion cubic feet of gas, or most likely, a combination of each.)

The New England Census division reported a 26-percent increase in nuclear generation, the largest percentage change for any Census division. This, coupled with the sale of electric plants, contributed to a decrease in reported coal use in New England. The South Atlantic Census division had the largest volume increase at nearly 20 TWh. Among States reporting large increases in nuclear generation were California, Connecticut, Florida, Illinois, Louisiana, New Jersey, North Carolina, South Carolina, and Wisconsin. New Jersey reported the largest volume increase in nuclear generation at 13 TWh. This was due to a substantial increase in generation from the Salem nuclear plant (Public Service Electric & Gas Company). Florida was helped by a 36-percent or 8-TWh increase in nuclear generation. This was primarily due to the return to service of the Crystal River nuclear unit #3, operated by Florida Power Corporation. Large declines in nuclear generation were reported in Michigan and Pennsylvania, primarily due to a year-long outage at Indiana-Michigan Power Company's Cook nuclear facility, and to an extended outage at the Duquesne Light Company's Beaver Valley nuclear facility. Three nuclear units were decommissioned during 1998. The shutdown of the Zion 1 and 2 (Commonwealth Edison Company), and Millstone 1 (Northeast Utilities) had little affect on year-to-year changes in the data since each had been out of service for most of 1997 and 1998.

⁸ United States Department of Agriculture, Natural Resource Conservation Service; National Water and Climate Center; extracted from the Internet at <http://www.wcc.nrcs.usda.gov/wcc.html> on March 19, 1999.

⁹ Ibid.

¹⁰ U.S. Department of Agriculture, Weekly Weather and Crop Bulletin, January 20, 1999 and January 13, 1998.

¹¹ Capacity factor is the ratio of the amount of electricity produced by a generating plant for a given period of time to the electricity that the plant could have produced at continuous full-power operation during the same period.

¹² Energy Information Administration, Monthly Energy Review (MER), DOE/EIA-0035(99/03) (Washington, DC, March 1999), Table 8.1.

¹³ This number is derived by multiplying 99,000 megawatts of summer capability by 8,760 hours (number of hours in a year). The result is then multiplied by 0.01 (1 percent). A one percent change equals 8,672,400 MWh.

¹⁴ This calculation is based on a simple ratio of 1998 national level data. If the consumption of 911 million short tons of coal (see Table 14 of the April 1999 Electric Power Monthly) produces 1,807,480,000 MWh of generation (see Table 4 of the April 1999 Electric Power Monthly), then it should take 4.4 million short tons of coal to produce 8,672,400 MWh of generation.

Table ES3. Average Quality of Coal by State of Origin, 1997-1998

State of Origin	Btu (per pound)		Sulfur (percent by weight)		Sulfur (pounds per MM Btu)		Ash (percent by weight)	
	1998	1997	1998	1997	1998	1997	1998	1997
Alabama	12,348	12,275	1.11	1.13	0.90	0.92	12.15	12.35
Arizona	10,948	10,940	.53	.53	.48	.49	9.64	9.69
Colorado	10,994	10,894	.46	.45	.42	.41	8.55	8.56
Illinois.....	11,345	11,261	2.23	2.30	1.96	2.04	8.89	8.98
Indiana.....	11,043	11,060	2.30	2.30	2.09	2.08	9.31	9.36
Kansas	10,931	11,264	4.08	3.81	3.73	3.38	19.33	17.17
Kentucky	12,214	12,179	1.56	1.67	1.28	1.37	10.46	10.49
Louisiana	6,764	6,861	.89	1.10	1.32	1.60	14.25	12.05
Maryland	12,350	12,457	1.66	1.65	1.35	1.32	14.54	14.04
Missouri.....	11,105	10,881	3.23	3.60	2.90	3.31	14.98	15.34
Montana.....	9,016	9,015	.53	.54	.59	.60	6.74	6.71
New Mexico.....	9,351	9,354	.70	.71	.75	.75	19.80	19.68
North Dakota.....	6,562	6,550	.76	.77	1.16	1.17	9.11	9.40
Ohio.....	11,752	11,819	3.54	3.52	3.01	2.98	10.93	10.77
Oklahoma	12,664	12,544	3.50	3.03	2.76	2.42	10.48	9.73
Pennsylvania.....	12,612	12,536	1.81	1.82	1.43	1.45	11.04	11.55
Tennessee.....	12,433	12,531	1.29	1.15	1.04	.91	10.53	10.45
Texas	6,405	6,417	1.04	1.07	1.63	1.66	16.09	15.92
Utah	11,520	11,548	.47	.49	.40	.42	10.59	10.39
Virginia.....	12,865	12,849	.99	1.08	.77	.84	9.73	10.26
Washington.....	7,849	7,931	.67	.64	.85	.81	14.69	14.48
West Virginia.....	12,351	12,385	1.52	1.48	1.23	1.19	11.50	11.44
Wyoming.....	8,667	8,666	.34	.35	.39	.40	5.26	5.29
Subtotal	10,230	10,266	1.07	1.11	1.04	1.09	9.21	9.38
Imported	11,967	11,848	.61	.68	.51	.57	5.67	5.81
Total.....	10,241	10,275	1.06	1.11	1.04	1.08	9.18	9.36

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu.

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

Table ES4. Receipts of Coal by Rank, 1994-1998

Rank	Receipts (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per Million Btu)	(dollars per short ton)
1998							
Anthracite ¹	511	7,479	0.55	0.74	37.6	90.1	13.47
Bituminous	478,252	12,033	1.61	1.34	10.5	134.6	32.38
Subbituminous.....	373,496	8,728	.38	.44	6.6	113.3	19.79
Lignite	77,189	6,471	.95	1.46	13.8	94.3	12.20
Total.....	929,448	10,241	1.06	1.04	9.18	125.2	25.64
1997							
Anthracite ¹	751	7,511	.53	.71	36.7	102.5	15.39
Bituminous	466,104	12,017	1.65	1.38	10.5	135.0	32.45
Subbituminous.....	336,805	8,737	.40	.45	6.7	118.5	20.71
Lignite	76,928	6,478	.98	1.51	13.8	92.6	12.00
Total.....	880,588	10,275	1.11	1.08	9.36	127.3	26.16
1996							
Anthracite ¹	735	7,180	.52	.73	37.7	110.0	15.79
Bituminous	454,814	12,027	1.64	1.37	10.3	136.6	32.86
Subbituminous.....	328,874	8,724	.39	.45	6.6	120.4	21.02
Lignite	78,278	6,503	.92	1.41	13.6	93.6	12.17
Total.....	862,701	10,263	1.10	1.07	9.22	128.9	26.45
1995							
Anthracite ¹	857	7,286	.53	.72	37.4	101.2	14.74
Bituminous	432,586	12,063	1.60	1.33	10.2	140.3	33.85
Subbituminous.....	316,195	8,710	.39	.45	6.7	122.3	21.31
Lignite	77,222	6,407	.99	1.54	14.0	94.9	12.16
Total.....	826,860	10,248	1.08	1.05	9.23	131.8	27.01
1994							
Anthracite ¹	689	7,340	.56	.77	36.8	101.4	14.89
Bituminous	456,733	12,056	1.69	1.41	10.1	144.7	34.89
Subbituminous.....	295,752	8,738	.41	.47	6.9	123.8	21.64
Lignite	78,756	6,409	.94	1.47	13.8	96.1	12.32
Total.....	831,929	10,338	1.17	1.13	9.36	135.5	28.03

¹ Anthracite includes anthracite silt and culm delivered from off-site storage.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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 Census Division and State Level

Table 1. Receipts of Coal by Census Division and State, 1994-1998

(Thousand Short Tons)

Census Division and State	1998	1997	1996	1995	1994
New England	5,538	7,125	6,947	6,072	6,245
Connecticut	657	952	931	841	863
Maine	—	—	—	—	—
Massachusetts	3,473	4,545	4,693	3,859	4,127
New Hampshire	1,408	1,628	1,324	1,372	1,255
Rhode Island	—	—	—	—	—
Vermont	—	—	—	—	—
Middle Atlantic	55,557	54,185	51,066	48,188	49,187
New Jersey	2,312	2,087	2,412	2,160	2,115
New York	9,296	8,277	7,896	7,575	8,244
Pennsylvania	43,948	43,821	40,759	38,453	38,828
East North Central	208,745	202,401	194,371	184,018	186,864
Illinois	39,867	40,750	37,441	33,905	32,936
Indiana	57,091	53,353	51,680	49,676	53,540
Michigan	34,906	32,145	30,177	31,214	31,435
Ohio	53,442	52,743	52,268	47,768	49,311
Wisconsin	23,438	23,410	22,804	21,456	19,641
West North Central	134,443	120,150	121,696	117,821	114,255
Iowa	21,657	16,675	18,116	18,095	17,005
Kansas	18,445	16,672	17,950	17,812	17,653
Minnesota	17,915	17,591	16,744	16,862	17,770
Missouri	38,589	33,553	33,718	30,819	27,250
Nebraska	11,940	10,638	10,275	10,063	8,894
North Dakota	24,199	23,087	23,586	22,294	23,366
South Dakota	1,699	1,934	1,307	1,877	2,317
South Atlantic	159,850	149,311	146,322	132,902	138,382
Delaware	1,744	1,682	1,745	1,720	2,284
District of Columbia	—	—	—	—	—
Florida	27,904	27,595	26,700	24,202	24,948
Georgia	31,748	28,346	28,870	28,490	28,761
Maryland	10,845	10,139	10,949	9,901	9,623
North Carolina	27,818	26,151	24,646	19,792	21,330
South Carolina	12,945	11,835	10,951	9,771	11,188
Virginia	12,716	11,930	11,024	8,624	9,270
West Virginia	34,130	31,633	31,438	30,402	30,978
East South Central	100,791	102,352	96,969	93,394	89,150
Alabama	30,920	30,378	29,510	28,131	27,160
Kentucky	36,962	39,550	38,383	36,891	36,301
Mississippi	5,886	6,043	5,428	4,271	4,299
Tennessee	27,023	26,381	23,649	24,100	21,389
West South Central	144,195	135,858	141,043	136,806	131,655
Arkansas	14,173	11,879	14,736	14,082	11,847
Louisiana	14,043	13,167	12,504	13,409	13,408
Oklahoma	19,747	18,378	19,571	19,713	17,191
Texas	96,231	92,435	94,232	89,602	89,210
Mountain	112,208	103,539	98,869	101,149	107,799
Arizona	18,826	16,788	15,027	15,762	18,427
Colorado	18,061	16,711	16,416	16,503	16,242
Idaho	—	—	—	—	—
Montana	10,520	9,160	7,877	9,313	10,310
Nevada	8,035	6,851	7,304	7,422	7,627
New Mexico	15,841	15,775	15,003	14,671	15,316
Utah	14,896	15,053	13,695	13,524	14,253
Wyoming	26,029	23,201	23,547	23,955	25,624
Pacific Contiguous	8,120	5,667	5,418	6,510	8,394
California	—	—	—	—	—
Oregon	2,014	875	838	1,200	2,223
Washington	6,106	4,792	4,580	5,310	6,171
Pacific Noncontiguous	—	—	—	—	—
Alaska	—	—	—	—	—
Hawaii	—	—	—	—	—
Total	929,448	880,588	862,701	826,860	831,929

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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. Average Delivered Cost of Coal by Census Division and State, 1994-1998

Census Division and State	1998	1997	1996	1995	1994	1998	1997	1996	1995	1994
	(cents per million Btu)					(dollars per short ton)				
New England	167.6	171.2	170.2	168.7	166.0	42.94	43.67	43.55	43.34	42.81
Connecticut	181.1	190.5	191.0	188.1	177.4	47.59	50.02	50.05	49.33	46.45
Maine	—	—	—	—	—	—	—	—	—	—
Massachusetts	167.6	169.9	168.8	167.9	167.8	42.30	42.72	42.64	42.63	43.00
New Hampshire	161.2	163.2	160.6	158.9	152.2	42.35	42.62	42.23	41.67	39.66
Rhode Island	—	—	—	—	—	—	—	—	—	—
Vermont	—	—	—	—	—	—	—	—	—	—
Middle Atlantic	137.6	138.3	140.8	138.8	145.2	34.33	34.39	35.08	34.63	36.33
New Jersey	159.0	175.6	175.2	177.6	181.7	41.71	45.94	45.53	47.17	48.49
New York	143.4	142.4	142.8	141.2	145.2	37.44	37.32	37.15	36.86	37.63
Pennsylvania	135.0	135.5	138.2	135.9	143.1	33.28	33.28	34.06	33.48	35.39
East North Central	129.9	130.7	133.3	139.0	141.0	27.51	27.68	28.29	29.67	30.56
Illinois	155.7	155.4	162.7	163.4	160.6	30.22	30.41	32.14	32.58	32.69
Indiana	112.3	116.4	119.1	125.5	127.2	23.63	24.35	24.67	25.94	26.79
Michigan	133.4	136.9	139.7	144.9	150.6	28.19	28.93	29.34	30.95	32.90
Ohio	136.5	132.1	134.0	142.0	143.9	32.52	31.41	32.31	34.44	34.70
Wisconsin	107.4	109.0	106.0	113.5	120.9	19.97	20.43	19.55	21.23	23.13
West North Central	88.9	91.7	92.1	95.7	98.8	14.91	15.39	15.53	16.10	16.76
Iowa	87.6	93.7	94.1	98.7	99.0	15.12	16.23	16.30	17.13	17.39
Kansas	98.1	102.1	99.2	102.1	102.5	17.06	17.91	17.51	17.83	17.85
Minnesota	106.9	109.5	106.6	114.0	113.9	19.00	19.47	18.99	20.12	20.09
Missouri	91.7	93.4	95.5	98.4	110.1	16.40	16.80	17.31	18.14	21.39
Nebraska	58.6	58.5	71.9	74.8	76.5	10.07	10.06	12.37	12.86	13.11
North Dakota	76.2	77.8	73.7	73.3	70.4	10.01	10.21	9.72	9.65	9.28
South Dakota	92.7	92.0	93.7	102.9	108.3	16.19	15.99	16.94	14.35	13.10
South Atlantic¹	144.7	147.6	149.3	155.2	159.9	35.58	36.34	36.68	38.25	39.53
Delaware	156.3	157.1	159.4	161.5	162.0	40.52	41.05	41.51	42.27	41.98
District of Columbia	—	—	—	—	—	—	—	—	—	—
Florida ¹	164.8	172.5	173.9	178.6	177.8	40.03	41.82	42.40	43.93	43.71
Georgia	154.5	158.6	157.8	166.8	169.1	36.31	37.28	36.54	38.62	39.82
Maryland	145.7	150.0	149.4	150.4	155.3	37.63	38.75	38.49	39.00	39.84
North Carolina	143.8	142.9	148.4	162.8	168.2	35.66	35.35	36.87	40.57	41.77
South Carolina	144.7	144.7	147.1	151.2	156.0	37.05	37.21	37.54	38.86	39.84
Virginia	137.8	139.3	141.8	144.8	145.0	34.73	34.98	35.73	36.90	37.05
West Virginia	122.2	123.7	124.9	127.3	139.2	30.06	30.68	30.93	31.61	34.70
East South Central¹	126.0	123.9	125.3	127.4	136.2	29.10	28.70	29.35	30.08	32.43
Alabama ¹	157.5	153.6	154.3	156.0	167.2	36.28	35.58	36.39	37.00	40.42
Kentucky ¹	105.9	104.6	105.9	110.6	116.2	24.52	24.20	24.43	25.71	27.16
Mississippi	153.8	154.7	151.1	153.3	157.1	32.51	32.44	33.31	34.40	35.54
Tennessee ¹	112.5	112.5	114.6	115.2	125.6	26.39	26.67	27.64	27.94	30.61
West South Central	123.4	126.7	129.1	133.6	134.8	19.34	19.69	20.13	20.66	20.79
Arkansas	147.2	164.0	150.3	161.1	160.3	25.53	28.56	26.15	27.99	27.91
Louisiana	142.9	147.9	151.4	154.9	153.9	23.15	23.97	24.74	25.13	25.04
Oklahoma	91.0	91.8	97.6	99.4	102.0	15.74	15.87	16.79	17.00	17.50
Texas	123.9	125.9	129.5	133.7	135.0	18.61	18.69	19.26	19.65	19.84
Mountain	107.3	110.7	112.0	110.4	111.9	20.83	21.52	21.82	21.51	21.83
Arizona	133.1	142.5	144.4	139.4	137.4	27.12	28.95	29.55	28.65	28.26
Colorado	98.7	100.9	102.6	104.8	105.6	19.41	19.93	20.24	20.73	21.01
Idaho	—	—	—	—	—	—	—	—	—	—
Montana	67.4	68.3	70.5	67.3	69.3	11.36	11.52	11.90	11.47	11.79
Nevada	129.8	139.2	136.6	131.0	143.3	29.07	31.10	30.44	29.02	32.37
New Mexico	130.6	133.6	142.8	141.7	140.9	23.72	24.23	26.04	25.59	25.48
Utah	114.8	111.3	107.1	109.4	113.6	25.97	25.22	24.66	25.27	26.10
Wyoming	78.6	80.6	82.0	81.8	80.3	13.83	14.16	14.30	14.29	14.09
Pacific Contiguous	138.4	154.5	148.5	136.2	128.4	23.07	25.19	23.96	22.83	21.93
California	—	—	—	—	—	—	—	—	—	—
Oregon	108.9	113.9	107.1	105.8	107.3	18.92	19.95	18.81	18.79	19.18
Washington	148.7	162.6	156.9	143.6	136.5	24.44	26.15	24.91	23.74	22.93
Pacific Noncontiguous	—	—	—	—	—	—	—	—	—	—
Alaska	—	—	—	—	—	—	—	—	—	—
Hawaii	—	—	—	—	—	—	—	—	—	—
Total	125.2	127.3	128.9	131.8	135.5	25.64	26.16	26.45	27.01	28.03

¹ The cost of coal shown for the States of Alabama, Florida, Kentucky, and Tennessee is not the total delivered cost of coal to these States and their respective Census Divisions. For more detailed information see footnotes 5, 6, and 7 at the end of Table 31.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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 Coal by Type of Purchase, Mine Type, Census Division and State, 1998

Census Division and State	Type of Purchase						Mine Type					
	Contract			Spot			Surface			Underground		
	Receipts (1,000 short tons)	Cost		Receipts (1,000 short tons)	Cost		Receipts (1,000 short tons)	Cost		Receipts (1,000 short tons)	Cost	
		(cents per MM Btu)	(\$ per short ton)		(cents per MM Btu)	(\$ per short ton)		(cents per MM Btu)	(\$ per short ton)		(cents per MM Btu)	(\$ per short ton)
New England	4,453	168.2	43.08	1,086	165.2	42.34	1,860	163.2	40.99	3,678	169.8	43.93
Connecticut.....	493	184.7	48.58	164	170.3	44.59	244	178.5	46.78	413	182.7	48.07
Maine.....	—	—	—	—	—	—	—	—	—	—	—	—
Massachusetts.....	2,932	166.4	41.99	541	174.0	43.98	1,250	163.9	40.45	2,223	169.7	43.34
New Hampshire.....	1,028	165.0	43.57	381	150.8	39.05	366	150.5	38.95	1,042	164.9	43.54
Rhode Island.....	—	—	—	—	—	—	—	—	—	—	—	—
Vermont.....	—	—	—	—	—	—	—	—	—	—	—	—
Middle Atlantic	45,136	141.1	35.32	10,421	122.0	30.05	15,216	123.7	29.86	40,341	142.6	36.02
New Jersey.....	1,891	161.8	42.69	421	146.3	37.31	1,035	162.8	41.08	1,278	156.2	42.22
New York.....	7,897	143.8	37.76	1,399	141.3	35.66	331	130.1	29.23	8,966	143.9	37.75
Pennsylvania.....	35,348	139.3	34.38	8,601	117.5	28.78	13,850	120.5	29.03	30,098	141.5	35.24
East North Central	156,617	135.7	28.31	52,129	113.5	25.13	146,946	127.6	25.57	61,799	134.4	32.13
Illinois.....	34,093	162.2	31.46	5,775	117.6	22.85	25,272	170.7	30.90	14,596	134.1	29.03
Indiana.....	39,742	116.4	24.10	17,349	103.5	22.54	47,605	108.1	22.14	9,487	130.7	31.07
Michigan.....	26,271	135.0	27.44	8,635	129.3	30.46	27,402	133.5	26.46	7,505	133.1	34.50
Ohio.....	38,325	145.7	34.88	15,117	112.7	26.54	26,462	138.0	32.02	26,980	135.0	33.00
Wisconsin.....	18,186	104.2	19.00	5,252	117.3	23.33	20,206	98.9	17.32	3,232	143.7	36.53
West North Central	110,045	88.5	14.68	24,398	90.7	15.99	130,400	87.3	14.47	4,043	127.3	29.12
Iowa.....	15,927	87.3	15.06	5,730	88.4	15.31	20,299	84.6	14.30	1,358	120.5	27.49
Kansas.....	18,283	98.4	17.11	162	63.8	11.13	17,500	96.4	16.49	944	122.6	27.65
Minnesota.....	17,253	106.3	18.85	662	121.6	22.78	17,872	106.8	18.95	42	161.0	38.50
Missouri.....	23,249	90.4	16.18	15,340	93.7	16.72	36,933	89.2	15.73	1,656	135.0	31.21
Nebraska.....	9,436	56.0	9.66	2,504	68.9	11.59	11,897	58.4	10.02	42	109.6	23.64
North Dakota.....	24,199	76.2	10.01	*	55.6	7.79	24,199	76.2	10.01	—	—	—
South Dakota.....	1,699	92.7	16.19	—	—	—	1,699	92.7	16.19	—	—	—
South Atlantic ¹	112,997	146.0	36.43	46,853	141.4	33.53	67,901	146.6	35.16	91,949	143.4	35.89
Delaware.....	1,698	156.4	40.62	46	151.3	36.73	705	163.9	41.53	1,039	151.3	39.83
District of Columbia.....	—	—	—	—	—	—	—	—	—	—	—	—
Florida ¹	18,851	171.1	41.84	9,053	151.5	36.27	9,957	163.2	38.63	17,946	165.7	40.81
Georgia.....	15,589	158.9	39.91	16,159	149.7	32.84	20,896	148.3	33.58	10,851	165.3	41.57
Maryland.....	7,461	146.0	37.56	3,384	145.0	37.79	3,685	145.5	36.78	7,161	145.8	38.06
North Carolina.....	21,009	146.8	36.45	6,809	134.5	33.22	11,231	143.0	35.30	16,588	144.4	35.90
South Carolina.....	10,528	144.5	37.26	2,418	145.6	36.16	4,360	151.6	38.32	8,585	141.2	36.41
Virginia.....	8,509	138.6	34.91	4,207	136.2	34.37	5,077	140.1	35.53	7,639	136.2	34.20
West Virginia.....	29,353	124.6	30.73	4,778	106.8	25.96	11,990	134.1	32.72	22,140	115.8	28.62
East South Central ¹	77,258	129.3	29.61	23,533	115.6	27.41	41,585	119.6	26.03	59,206	130.1	31.25
Alabama ¹	26,231	162.1	36.92	4,689	133.4	32.70	12,789	140.9	29.48	18,131	167.5	41.07
Kentucky ¹	24,637	105.8	24.35	12,325	106.0	24.87	19,727	106.9	24.82	17,235	104.7	24.19
Mississippi.....	4,947	156.9	33.33	938	136.9	28.21	3,558	144.6	27.66	2,328	164.9	39.93
Tennessee ¹	21,443	111.0	25.86	5,580	117.8	28.44	5,511	105.3	21.30	21,512	114.0	27.70
West South Central	133,396	123.5	19.17	10,799	122.2	21.36	144,172	123.4	19.33	23	151.6	36.20
Arkansas.....	12,994	150.6	26.16	1,179	108.9	18.50	14,173	147.2	25.53	—	—	—
Louisiana.....	13,660	141.7	22.82	383	179.3	34.62	14,033	142.9	23.14	10	152.2	34.63
Oklahoma.....	19,115	91.1	15.79	632	85.9	14.38	19,747	91.0	15.74	—	—	—
Texas.....	87,627	123.9	18.30	8,605	123.7	21.68	96,219	123.9	18.60	12	151.1	37.49
Mountain	105,028	108.1	20.93	7,180	95.1	19.28	89,944	104.7	19.47	22,265	115.8	26.32
Arizona.....	16,408	135.8	27.90	2,417	113.8	21.82	18,619	132.4	26.94	207	190.1	42.92
Colorado.....	16,789	100.2	19.61	1,273	79.8	16.74	14,432	99.3	18.75	3,630	96.7	22.00
Idaho.....	—	—	—	—	—	—	—	—	—	—	—	—
Montana.....	10,520	67.4	11.36	—	—	—	10,520	67.4	11.36	—	—	—
Nevada.....	6,791	131.8	29.35	1,244	119.1	27.59	4,503	125.6	27.36	3,532	134.9	31.26
New Mexico.....	15,841	130.6	23.72	—	—	—	15,841	130.6	23.72	—	—	—
Utah.....	14,678	115.1	26.02	218	96.0	22.94	—	—	—	14,896	114.8	25.97
Wyoming.....	24,001	79.9	13.95	2,028	65.1	12.38	26,029	78.6	13.83	—	—	—
Pacific Contiguous	4,623	159.3	25.00	3,497	114.3	20.51	8,120	138.4	23.07	—	—	—
California.....	—	—	—	—	—	—	—	—	—	—	—	—
Oregon.....	—	—	—	2,014	108.9	18.92	2,014	108.9	18.92	—	—	—
Washington.....	4,623	159.3	25.00	1,483	121.2	22.68	6,106	148.7	24.44	—	—	—
Pacific Noncontiguous	—	—	—	—	—	—	—	—	—	—	—	—
Alaska.....	—	—	—	—	—	—	—	—	—	—	—	—
Hawaii.....	—	—	—	—	—	—	—	—	—	—	—	—
Total	749,553	126.5	25.50	179,895	119.8	26.21	646,144	118.6	22.24	283,304	136.7	33.38

¹ The cost of coal shown for the States of Alabama, Florida, Kentucky, and Tennessee is not the total delivered cost of coal to these States and their respective Census Divisions. For more detailed information see footnotes 5, 6, and 7 at the end of Table 31.

* = Number less than 0.5.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu. • Cost = average delivered cost.

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

Table 4. Receipts and Average Delivered Cost of Coal by Rank, Census Division, and State, 1998

Census Division and State	Bituminous ¹			Subbituminous			Lignite			Total		
	Receipts (1,000 short tons)	Heat Value (Btu per pound)	Cost (cents per MM Btu)	Receipts (1,000 short tons)	Heat Value (Btu per pound)	Cost (cents per MM Btu)	Receipts (1,000 short tons)	Heat Value (Btu per pound)	Cost (cents per MM Btu)	Receipts (1,000 short tons)	Heat Value (Btu per pound)	Cost (cents per MM Btu)
New England	5,538	12,810	167.6	—	—	—	—	—	—	5,538	12,810	167.6
Connecticut.....	657	13,138	181.1	—	—	—	—	—	—	657	13,138	181.1
Maine.....	—	—	—	—	—	—	—	—	—	—	—	—
Massachusetts.....	3,473	12,617	167.6	—	—	—	—	—	—	3,473	12,617	167.6
New Hampshire.....	1,408	13,133	161.2	—	—	—	—	—	—	1,408	13,133	161.2
Rhode Island.....	—	—	—	—	—	—	—	—	—	—	—	—
Vermont.....	—	—	—	—	—	—	—	—	—	—	—	—
Middle Atlantic	55,557	12,478	137.6	—	—	—	—	—	—	55,557	12,478	137.6
New Jersey.....	2,312	13,113	159.0	—	—	—	—	—	—	2,312	13,113	159.0
New York.....	9,296	13,052	143.4	—	—	—	—	—	—	9,296	13,052	143.4
Pennsylvania.....	43,948	12,323	135.0	—	—	—	—	—	—	43,948	12,323	135.0
East North Central	128,425	11,697	129.9	80,320	8,819	130.0	—	—	—	208,745	10,589	129.9
Illinois.....	17,860	10,832	128.8	22,008	8,782	182.7	—	—	—	39,867	9,700	155.7
Indiana.....	40,565	11,253	113.9	16,526	8,713	107.5	—	—	—	57,091	10,517	112.3
Michigan.....	14,089	12,705	143.6	20,817	9,114	123.8	—	—	—	34,906	10,563	133.4
Ohio.....	51,989	12,002	136.8	1,452	8,724	120.5	—	—	—	53,442	11,913	136.5
Wisconsin.....	3,922	12,569	144.9	19,516	8,642	96.4	—	—	—	23,438	9,299	107.4
West North Central	6,366	11,188	122.8	103,939	8,640	88.5	24,138	6,562	76.2	134,443	8,388	88.9
Iowa.....	1,512	11,364	120.6	20,146	8,431	84.2	—	—	—	21,657	8,636	87.6
Kansas.....	1,773	11,062	119.5	16,671	8,444	95.1	—	—	—	18,445	8,696	98.1
Minnesota.....	112	11,281	154.3	17,803	8,868	106.6	—	—	—	17,915	8,883	106.9
Missouri.....	2,936	11,175	124.8	35,653	8,754	88.2	—	—	—	38,589	8,938	91.7
Nebraska.....	34	10,774	113.3	11,906	8,578	58.5	—	—	—	11,940	8,584	58.6
North Dakota.....	—	—	—	61	8,226	77.5	24,138	6,562	76.2	24,199	6,566	76.2
South Dakota.....	—	—	—	1,699	8,728	92.7	—	—	—	1,699	8,728	92.7
South Atlantic ²	152,627	12,463	144.6	7,223	8,749	147.9	—	—	—	159,850	12,296	144.7
Delaware.....	1,744	12,962	156.3	—	—	—	—	—	—	1,744	12,962	156.3
District of Columbia.....	—	—	—	—	—	—	—	—	—	—	—	—
Florida ²	26,840	12,279	165.7	1,064	8,724	134.4	—	—	—	27,904	12,144	164.8
Georgia.....	25,589	12,472	155.3	6,158	8,754	150.2	—	—	—	31,748	11,750	154.5
Maryland.....	10,845	12,914	145.7	—	—	—	—	—	—	10,845	12,914	145.7
North Carolina.....	27,818	12,398	143.8	—	—	—	—	—	—	27,818	12,398	143.8
South Carolina.....	12,945	12,805	144.7	—	—	—	—	—	—	12,945	12,805	144.7
Virginia.....	12,716	12,603	137.8	—	—	—	—	—	—	12,716	12,603	137.8
West Virginia.....	34,130	12,305	122.2	—	—	—	—	—	—	34,130	12,305	122.2
East South Central ²	87,771	11,949	126.9	13,020	8,801	118.3	—	—	—	100,791	11,543	126.0
Alabama ²	24,867	12,244	164.0	6,053	8,538	118.9	—	—	—	30,920	11,519	157.5
Kentucky ²	36,717	11,597	105.9	245	8,807	97.7	—	—	—	36,962	11,579	105.9
Mississippi.....	2,591	12,165	162.2	3,295	9,314	145.2	—	—	—	5,886	10,569	153.8
Tennessee ²	23,596	12,163	114.7	3,427	8,771	91.3	—	—	—	27,023	11,733	112.5
West South Central	1,636	10,837	143.8	89,785	8,610	131.9	52,774	6,428	102.8	144,195	7,837	123.4
Arkansas.....	—	—	—	14,173	8,671	147.2	—	—	—	14,173	8,671	147.2
Louisiana.....	30	11,367	152.2	10,458	8,543	144.5	3,555	6,760	136.8	14,043	8,097	142.9
Oklahoma.....	87	12,893	101.9	19,660	8,633	90.9	—	—	—	19,747	8,651	91.0
Texas.....	1,519	10,709	146.5	45,493	8,597	142.1	49,219	6,405	100.2	96,231	7,509	123.9
Mountain	40,841	11,077	117.1	71,090	8,933	100.3	277	6,702	91.1	112,208	9,708	107.3
Arizona.....	7,955	10,986	118.9	10,870	9,601	145.0	—	—	—	18,826	10,186	133.1
Colorado.....	7,243	10,943	106.6	10,819	9,091	92.3	—	—	—	18,061	9,834	98.7
Idaho.....	—	—	—	—	—	—	—	—	—	—	—	—
Montana.....	—	—	—	10,243	8,480	66.9	277	6,702	91.1	10,520	8,433	67.4
Nevada.....	8,035	11,199	129.8	—	—	—	—	—	—	8,035	11,199	129.8
New Mexico.....	—	—	—	15,841	9,082	130.6	—	—	—	15,841	9,082	130.6
Utah.....	14,896	11,310	114.8	—	—	—	—	—	—	14,896	11,310	114.8
Wyoming.....	2,712	10,062	113.6	23,317	8,647	73.9	—	—	—	26,029	8,794	78.6
Pacific Contiguous	1	10,800	165.5	8,119	8,331	138.4	—	—	—	8,120	8,332	138.4
California.....	—	—	—	—	—	—	—	—	—	—	—	—
Oregon.....	—	—	—	2,014	8,685	108.9	—	—	—	2,014	8,685	108.9
Washington.....	1	10,800	165.5	6,105	8,215	148.7	—	—	—	6,106	8,215	148.7
Pacific Noncontiguous	—	—	—	—	—	—	—	—	—	—	—	—
Alaska.....	—	—	—	—	—	—	—	—	—	—	—	—
Hawaii.....	—	—	—	—	—	—	—	—	—	—	—	—
Total	478,763	12,028	134.5	373,496	8,728	113.3	77,189	6,471	94.3	929,448	10,241	125.2

¹ Includes 511 thousand short tons of anthracite coal delivered to Pennsylvania.

² The cost of coal shown for the States of Alabama, Florida, Kentucky, and Tennessee is not the total delivered cost of coal to these States and their respective Census Divisions. For more detailed information see footnotes 5, 6, and 7 at the end of Table 31.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu. • Cost = average delivered cost.

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

Table 5. Receipts and Average Delivered Cost of Coal by Sulfur Content, Census Division, and State, 1998

Census Division and State	0.5% or Less			More than 0.5% up to 1.0%			More than 1.0% up to 1.5%		
	Receipts (1,000 short tons)	Cost		Receipts (1,000 short tons)	Cost		Receipts (1,000 short tons)	Cost	
		(cents per MM Btu)	(\$ per short ton)		(cents per MM Btu)	(\$ per short ton)		(cents per MM Btu)	(\$ per short ton)
New England	543	186.8	48.95	3,748	165.6	41.86	692	166.3	43.85
Connecticut.....	419	183.8	48.20	238	176.4	46.52	—	—	—
Maine.....	—	—	—	—	—	—	—	—	—
Massachusetts.....	124	196.8	51.49	3,144	166.6	41.84	124	167.9	44.46
New Hampshire.....	—	—	—	366	150.5	38.95	568	166.0	43.71
Rhode Island.....	—	—	—	—	—	—	—	—	—
Vermont.....	—	—	—	—	—	—	—	—	—
Middle Atlantic	266	115.9	17.97	6,074	154.2	38.36	6,082	136.9	35.07
New Jersey.....	—	—	—	1,758	153.3	40.57	49	137.6	33.79
New York.....	38	155.0	37.12	1,847	170.7	43.44	964	139.0	36.42
Pennsylvania.....	228	105.0	14.81	2,470	141.4	32.99	5,070	136.5	34.83
East North Central	79,224	129.3	22.94	46,099	140.3	32.97	16,016	124.9	29.33
Illinois.....	21,698	179.0	31.96	6,259	162.1	34.06	957	141.7	29.13
Indiana.....	16,724	107.6	18.81	5,302	145.4	34.09	8,913	121.0	26.88
Michigan.....	20,497	124.4	22.74	8,782	152.9	37.64	2,775	127.5	33.42
Ohio.....	1,470	118.5	20.77	23,609	129.7	31.01	2,131	120.0	30.41
Wisconsin.....	18,834	96.2	16.61	2,147	134.3	29.44	1,240	140.6	36.05
West North Central	95,032	87.6	15.19	34,193	89.2	13.29	3,202	104.4	17.35
Iowa.....	19,719	85.4	14.51	1,175	101.9	19.68	231	105.3	20.39
Kansas.....	17,904	97.6	16.84	62	126.6	27.31	—	—	—
Minnesota.....	10,735	104.6	18.68	7,074	109.7	19.24	86	153.5	34.44
Missouri.....	34,764	88.1	15.41	2,134	109.1	22.06	752	140.6	32.54
Nebraska.....	11,850	58.4	10.01	90	91.0	17.77	—	—	—
North Dakota.....	61	77.5	12.75	21,984	75.8	9.90	2,132	79.7	10.98
South Dakota.....	—	—	—	1,674	92.5	16.14	—	—	—
South Atlantic ¹	7,893	148.4	26.23	75,739	150.1	37.41	42,202	146.3	36.86
Delaware.....	—	—	—	1,060	165.0	42.21	646	143.0	37.83
District of Columbia.....	—	—	—	—	—	—	—	—	—
Florida ¹	1,724	142.2	25.89	8,421	168.8	42.09	8,239	170.5	42.91
Georgia.....	6,170	150.2	26.32	16,372	159.4	39.93	7,013	147.5	36.52
Maryland.....	—	—	—	4,565	140.5	35.67	3,741	148.6	38.89
North Carolina.....	—	—	—	21,353	145.9	36.27	6,456	137.0	33.62
South Carolina.....	—	—	—	2,737	154.8	39.50	7,964	142.2	36.34
Virginia.....	—	—	—	7,951	138.2	34.65	4,421	137.0	34.96
West Virginia.....	—	—	—	13,279	141.5	34.57	3,722	124.6	30.86
East South Central ¹	16,826	120.3	22.85	26,232	158.5	38.82	12,007	120.1	29.53
Alabama ¹	6,944	120.3	21.66	12,952	191.8	47.37	1,110	144.9	35.65
Kentucky ¹	1,972	123.8	28.17	9,642	119.2	28.94	4,679	109.3	26.34
Mississippi.....	3,295	145.2	27.05	1,154	187.4	46.45	776	141.5	33.80
Tennessee ¹	4,616	101.2	19.38	2,484	120.6	29.02	5,443	121.3	30.43
West South Central	99,909	131.1	21.98	17,154	116.2	15.88	20,809	91.0	12.09
Arkansas.....	13,708	146.5	25.40	465	168.4	29.14	—	—	—
Louisiana.....	9,997	144.6	24.72	3,228	135.8	19.12	738	147.1	20.08
Oklahoma.....	19,660	90.9	15.69	—	—	—	—	—	—
Texas.....	56,544	139.4	22.86	13,461	109.0	14.65	20,071	88.9	11.79
Mountain	55,404	103.0	20.31	56,795	111.5	21.32	9	326.9	72.00
Arizona.....	7,117	153.1	30.01	11,709	121.7	25.36	—	—	—
Colorado.....	16,935	98.6	19.24	1,117	98.3	21.55	9	326.9	72.00
Idaho.....	—	—	—	—	—	—	—	—	—
Montana.....	630	66.1	10.21	9,890	67.5	11.44	—	—	—
Nevada.....	4,870	132.1	29.74	3,165	126.2	28.06	—	—	—
New Mexico.....	—	—	—	15,841	130.6	23.72	—	—	—
Utah.....	12,364	114.3	25.62	2,532	117.1	27.72	—	—	—
Wyoming.....	13,488	52.2	8.74	12,541	104.3	19.30	—	—	—
Pacific Contiguous	3,496	114.3	20.51	4,624	159.3	25.00	—	—	—
California.....	—	—	—	—	—	—	—	—	—
Oregon.....	2,014	108.9	18.92	—	—	—	—	—	—
Washington.....	1,482	121.1	22.67	4,624	159.3	25.00	—	—	—
Pacific Noncontiguous	—	—	—	—	—	—	—	—	—
Alaska.....	—	—	—	—	—	—	—	—	—
Hawaii.....	—	—	—	—	—	—	—	—	—
Total	358,593	114.4	20.29	270,659	135.6	28.87	101,020	131.0	29.02

¹ The cost of coal shown for the States of Alabama, Florida, Kentucky, and Tennessee is not the total delivered cost of coal to these States and their respective Census Divisions. For more detailed information see footnotes 5, 6, and 7 at the end of Table 31.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu. • Cost = average delivered cost.

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

Table 5. Receipts and Average Delivered Cost of Coal by Sulfur Content, Census Division, and State, 1998 (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 Receipts Cost	
	Receipts (1,000 short tons)	Cost		Receipts (1,000 short tons)	Cost		Receipts (1,000 short tons)	Cost		(cents per MM Btu)	(\$ per short ton)
		(cents per MM Btu)	(\$ per short ton)		(cents per MM Btu)	(\$ per short ton)		(cents per MM Btu)	(\$ per short ton)		
New England	335	165.1	43.58	220	160.5	42.68	—	—	—	167.6	42.94
Connecticut.....	—	—	—	—	—	—	—	—	—	181.1	47.59
Maine.....	—	—	—	—	—	—	—	—	—	—	—
Massachusetts.....	82	161.1	42.60	—	—	—	—	—	—	167.6	42.30
New Hampshire.....	254	166.4	43.90	220	160.5	42.68	—	—	—	161.2	42.35
Rhode Island.....	—	—	—	—	—	—	—	—	—	—	—
Vermont.....	—	—	—	—	—	—	—	—	—	—	—
Middle Atlantic	17,129	133.9	33.72	16,564	131.0	33.28	9,442	146.6	34.68	137.6	34.33
New Jersey.....	—	—	—	506	181.5	46.43	—	—	—	159.0	41.71
New York.....	3,083	138.4	36.32	3,021	135.3	35.64	344	129.9	33.97	143.4	37.44
Pennsylvania.....	14,046	132.9	33.14	13,036	128.0	32.22	9,099	147.3	34.70	135.0	33.28
East North Central	10,431	126.7	30.57	28,531	111.4	25.47	28,444	136.6	31.32	129.9	27.51
Illinois.....	690	129.2	26.64	6,732	106.5	22.95	3,531	128.6	27.51	155.7	30.22
Indiana.....	4,186	113.0	25.00	13,437	101.4	22.95	8,529	106.1	23.57	112.3	23.63
Michigan.....	1,800	126.5	33.08	358	135.2	33.35	694	129.4	33.31	133.4	28.19
Ohio.....	2,546	135.1	35.10	7,997	129.7	31.44	15,690	154.3	36.30	136.5	32.52
Wisconsin.....	1,209	148.5	38.81	7	172.5	45.78	—	—	—	107.4	19.97
West North Central	89	129.0	27.60	933	117.0	26.02	994	114.4	25.59	88.9	14.91
Iowa.....	47	122.0	29.25	399	110.5	24.63	86	118.7	27.96	87.6	15.12
Kansas.....	—	—	—	50	124.2	29.89	430	105.7	23.47	98.1	17.06
Minnesota.....	20	157.3	36.75	—	—	—	—	—	—	106.9	19.00
Missouri.....	—	—	—	484	121.6	26.77	454	121.9	27.52	91.7	16.40
Nebraska.....	—	—	—	—	—	—	—	—	—	58.6	10.07
North Dakota.....	21	111.4	15.38	—	—	—	—	—	—	76.2	10.01
South Dakota.....	—	—	—	—	—	—	25	108.7	18.94	92.7	16.19
South Atlantic ¹	14,947	131.7	32.98	7,464	151.7	36.35	11,605	114.1	28.26	144.7	35.58
Delaware.....	38	146.2	38.98	—	—	—	—	—	—	156.3	40.52
District of Columbia.....	—	—	—	—	—	—	—	—	—	—	—
Florida ¹	846	159.7	39.52	6,668	156.5	37.27	2,006	167.1	41.09	164.8	40.03
Georgia.....	2,060	149.1	36.81	133	143.1	35.78	—	—	—	154.5	36.31
Maryland.....	2,380	151.2	39.46	159	138.5	36.79	—	—	—	145.7	37.63
North Carolina.....	9	129.2	32.88	—	—	—	—	—	—	143.8	35.66
South Carolina.....	2,192	141.0	36.61	52	146.3	36.12	—	—	—	144.7	37.05
Virginia.....	344	139.5	33.82	—	—	—	—	—	—	137.8	34.73
West Virginia.....	7,078	112.8	27.72	452	92.0	22.83	9,599	103.1	25.58	122.2	30.06
East South Central ¹	11,427	127.3	31.09	16,067	111.3	26.35	18,232	96.7	21.76	126.0	29.10
Alabama ¹	4,857	143.3	34.79	3,620	126.1	30.66	1,437	112.0	26.59	157.5	36.28
Kentucky ¹	877	106.7	25.02	3,903	103.6	23.65	15,889	94.3	21.04	105.9	24.52
Mississippi.....	558	142.8	33.95	104	131.7	33.62	—	—	—	153.8	32.51
Tennessee ¹	5,134	114.2	28.32	8,440	108.0	25.65	906	112.1	26.72	112.5	26.39
West South Central	6,236	90.7	10.54	—	—	—	87	101.9	26.27	123.4	19.34
Arkansas.....	—	—	—	—	—	—	—	—	—	147.2	25.53
Louisiana.....	81	131.8	17.50	—	—	—	—	—	—	142.9	23.15
Oklahoma.....	—	—	—	—	—	—	87	101.9	26.27	91.0	15.74
Texas.....	6,155	90.1	10.45	—	—	—	—	—	—	123.9	18.61
Mountain	—	—	—	—	—	—	—	—	—	107.3	20.83
Arizona.....	—	—	—	—	—	—	—	—	—	133.1	27.12
Colorado.....	—	—	—	—	—	—	—	—	—	98.7	19.41
Idaho.....	—	—	—	—	—	—	—	—	—	—	—
Montana.....	—	—	—	—	—	—	—	—	—	67.4	11.36
Nevada.....	—	—	—	—	—	—	—	—	—	129.8	29.07
New Mexico.....	—	—	—	—	—	—	—	—	—	130.6	23.72
Utah.....	—	—	—	—	—	—	—	—	—	114.8	25.97
Wyoming.....	—	—	—	—	—	—	—	—	—	78.6	13.83
Pacific Contiguous	—	—	—	—	—	—	—	—	—	138.4	23.07
California.....	—	—	—	—	—	—	—	—	—	—	—
Oregon.....	—	—	—	—	—	—	—	—	—	108.9	18.92
Washington.....	—	—	—	—	—	—	—	—	—	148.7	24.44
Pacific Noncontiguous	—	—	—	—	—	—	—	—	—	—	—
Alaska.....	—	—	—	—	—	—	—	—	—	—	—
Hawaii.....	—	—	—	—	—	—	—	—	—	—	—
Total	60,594	128.8	30.16	69,778	121.0	28.75	68,804	123.4	28.64	125.2	25.64

¹ The cost of coal shown for the States of Alabama, Florida, Kentucky, and Tennessee is not the total delivered cost of coal to these States and their respective Census Divisions. For more detailed information see footnotes 5, 6, and 7 at the end of Table 31.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu. • Cost = average delivered cost.

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

Table 6. Receipts of Petroleum by Census Division and State, 1994-1998

(Thousand Barrels)

Census Division and State	1998	1997	1996	1995	1994
New England	35,559	36,176	22,071	17,881	24,173
Connecticut	14,192	13,901	9,562	4,970	6,019
Maine	3,204	2,335	1,423	1,414	964
Massachusetts	15,733	18,344	9,783	9,299	14,742
New Hampshire	2,427	1,594	1,215	2,104	2,319
Rhode Island	—	—	81	92	121
Vermont	4	2	6	2	8
Middle Atlantic	31,908	19,139	24,113	18,110	34,891
New Jersey	1,781	1,516	2,662	2,154	5,451
New York	22,928	14,556	16,662	12,372	19,732
Pennsylvania	7,199	3,067	4,789	3,584	9,709
East North Central	4,691	3,108	3,526	3,578	5,192
Illinois	1,241	895	1,272	1,333	2,615
Indiana	500	390	431	440	354
Michigan	2,418	1,288	1,362	1,295	1,587
Ohio	491	467	403	420	541
Wisconsin	41	67	59	90	94
West North Central	659	976	632	424	545
Iowa	121	88	57	50	108
Kansas	248	490	131	58	98
Minnesota	45	39	63	41	47
Missouri	158	202	207	176	196
Nebraska	15	21	14	14	17
North Dakota	72	134	153	85	79
South Dakota	—	—	6	—	—
South Atlantic	74,512	44,613	43,443	36,261	67,296
Delaware	2,116	1,706	1,926	1,028	2,950
District of Columbia	446	139	295	422	653
Florida	59,824	38,320	36,449	31,059	51,596
Georgia	738	279	485	240	222
Maryland	6,005	1,985	2,492	2,008	7,795
North Carolina	406	350	209	195	271
South Carolina	109	137	72	68	107
Virginia	4,543	1,361	1,186	937	3,314
West Virginia	324	336	329	305	387
East South Central	8,851	4,697	2,465	601	2,394
Alabama	112	218	178	176	155
Kentucky	208	237	205	234	311
Mississippi	8,379	4,081	1,726	28	1,733
Tennessee	152	161	355	163	196
West South Central	1,607	1,458	943	362	499
Arkansas	90	73	86	70	143
Louisiana	1,264	846	299	82	208
Oklahoma	7	39	73	10	10
Texas	246	500	486	200	139
Mountain	364	363	396	387	466
Arizona	144	123	158	113	69
Colorado	—	—	—	4	6
Idaho	—	—	—	—	—
Montana	14	16	22	34	18
Nevada	30	38	31	29	222
New Mexico	53	45	48	47	45
Utah	42	23	31	31	27
Wyoming	81	117	106	129	79
Pacific Contiguous	124	33	16	33	387
California	103	—	—	—	370
Oregon	6	17	—	13	3
Washington	15	15	16	20	14
Pacific Noncontiguous	6,916	7,227	9,024	6,654	7,096
Alaska	—	—	—	—	—
Hawaii	6,916	7,227	9,024	6,654	7,096
Total	165,191	117,789	106,629	84,292	142,940

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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 Petroleum by Census Division and State, 1994-1998

Census Division and State	1998	1997	1996	1995	1994	1998	1997	1996	1995	1994
	(cents per million Btu)					(dollars per barrel)				
New England	203.5	274.3	307.9	258.0	252.0	12.97	17.51	19.71	16.50	16.00
Connecticut.....	218.7	292.7	324.1	264.0	253.1	13.98	18.74	20.83	16.99	16.06
Maine.....	202.1	278.9	293.6	260.6	213.8	12.84	17.69	18.54	16.48	13.49
Massachusetts.....	192.6	260.7	299.2	258.7	262.4	12.25	16.60	19.10	16.48	16.63
New Hampshire.....	187.2	263.6	254.4	232.6	199.5	11.94	16.89	16.51	15.08	12.86
Rhode Island.....	—	—	478.7	412.5	253.5	—	—	28.23	24.18	16.11
Vermont.....	327.1	453.5	523.8	411.7	453.5	18.70	26.04	29.34	23.84	25.87
Middle Atlantic	210.6	285.3	328.7	270.2	262.3	13.30	18.02	20.62	16.97	16.46
New Jersey.....	242.2	298.7	358.7	286.2	290.2	15.12	18.63	22.20	17.95	18.08
New York.....	203.5	284.1	319.2	265.5	251.7	12.88	17.94	20.07	16.70	15.83
Pennsylvania.....	225.7	284.7	345.2	276.8	268.3	14.19	18.09	21.69	17.32	16.82
East North Central	288.7	382.3	385.8	321.5	307.5	17.70	23.20	23.60	19.62	18.93
Illinois.....	275.2	375.0	368.1	301.4	283.0	17.19	23.14	23.06	18.81	17.82
Indiana.....	319.4	453.1	486.9	401.1	389.9	18.42	26.08	28.08	23.14	22.50
Michigan.....	280.6	345.1	340.2	292.1	295.6	17.45	21.40	21.08	18.10	18.20
Ohio.....	332.6	437.0	489.6	390.9	403.8	19.24	25.33	28.33	22.60	23.39
Wisconsin.....	348.9	462.6	481.6	385.0	397.9	20.52	27.13	28.26	22.54	23.29
West North Central	292.6	346.5	434.8	364.6	355.5	17.46	21.46	25.59	21.53	21.03
Iowa.....	332.9	445.2	507.5	409.0	392.3	19.45	25.85	29.52	23.64	22.71
Kansas.....	265.5	282.1	412.2	369.1	396.8	16.14	18.26	24.57	21.56	23.15
Minnesota.....	352.7	483.2	487.4	406.7	419.8	20.41	27.74	28.42	23.71	24.42
Missouri.....	275.0	364.5	352.2	313.0	278.4	16.56	22.05	20.82	18.83	16.97
Nebraska.....	354.5	450.3	511.4	415.0	401.8	20.49	26.02	29.56	23.99	23.23
North Dakota.....	311.9	459.2	505.1	417.5	407.2	18.19	26.82	29.56	24.41	23.72
South Dakota.....	—	—	597.9	—	—	—	—	35.16	—	—
South Atlantic	209.2	276.1	294.7	255.0	232.7	13.27	17.63	18.72	16.20	14.75
Delaware.....	214.7	277.9	321.2	260.9	259.3	13.61	17.68	20.49	16.66	16.31
District of Columbia.....	252.9	357.7	378.2	309.5	326.4	15.20	21.69	22.75	18.59	19.64
Florida.....	205.9	270.2	285.4	249.5	226.2	13.11	17.32	18.21	15.91	14.38
Georgia.....	327.6	420.8	430.5	378.1	396.3	19.06	24.83	25.44	22.17	23.05
Maryland.....	211.5	296.4	331.6	274.7	244.5	13.39	18.79	20.91	17.32	15.47
North Carolina.....	310.5	427.7	468.2	381.5	383.8	18.02	24.84	27.20	22.14	22.28
South Carolina.....	327.6	454.1	496.5	411.1	409.7	19.01	26.33	28.86	23.83	23.77
Virginia.....	203.7	281.9	290.0	250.9	216.2	12.85	17.55	17.90	15.41	13.60
West Virginia.....	370.9	464.0	528.7	438.9	442.4	21.68	27.07	30.79	25.62	25.89
East South Central	205.7	289.8	296.1	401.9	230.0	13.51	18.82	18.64	23.39	14.37
Alabama.....	287.6	405.2	445.7	375.6	402.0	16.85	23.77	26.09	21.81	23.28
Kentucky.....	383.3	482.9	515.4	428.1	433.3	22.43	28.28	30.07	24.98	25.29
Mississippi.....	199.2	269.1	223.6	374.3	164.1	13.16	17.73	14.50	21.93	10.52
Tennessee.....	304.5	439.0	484.6	397.4	414.9	17.89	25.80	28.46	23.08	24.09
West South Central	250.1	361.5	417.9	373.1	300.6	15.80	22.37	24.81	21.80	18.29
Arkansas.....	370.8	470.2	452.5	417.5	358.9	21.99	27.66	26.43	24.15	21.13
Louisiana.....	222.3	301.8	326.8	348.1	269.3	14.32	19.46	20.20	20.69	16.73
Oklahoma.....	292.2	409.2	406.7	252.9	370.3	17.42	24.08	23.86	15.06	21.71
Texas.....	362.1	453.6	473.2	374.4	285.5	21.12	26.38	27.50	21.78	17.48
Mountain	423.9	532.9	551.7	470.0	389.1	24.69	31.14	32.44	27.59	23.48
Arizona.....	429.0	531.8	538.6	510.2	428.1	25.02	31.35	32.19	29.98	25.56
Colorado.....	—	—	—	477.2	458.1	—	—	—	27.65	25.90
Idaho.....	—	—	—	—	—	—	—	—	—	—
Montana.....	466.0	529.4	564.9	490.7	462.9	27.60	31.35	33.45	29.06	27.41
Nevada.....	379.6	507.6	551.5	337.2	328.7	22.14	29.59	31.71	20.77	20.46
New Mexico.....	439.3	574.6	586.8	490.4	464.9	25.09	32.82	33.52	28.01	26.55
Utah.....	439.6	583.6	579.2	504.6	467.4	25.80	34.27	33.95	29.53	27.45
Wyoming.....	405.5	517.0	545.6	444.6	444.5	23.70	30.14	31.89	26.01	25.95
Pacific Contiguous	292.4	494.4	508.5	462.3	227.3	17.69	29.06	29.89	27.19	13.92
California.....	274.7	—	—	—	216.3	16.71	—	—	—	13.27
Oregon.....	331.9	490.2	—	426.7	465.4	19.52	28.82	—	25.12	27.17
Washington.....	405.3	499.1	508.5	484.9	472.0	23.82	29.34	29.89	28.50	27.74
Pacific Noncontiguous	261.5	364.3	353.5	298.0	271.2	16.39	22.85	22.10	18.70	17.05
Alaska.....	—	—	—	—	—	—	—	—	—	—
Hawaii.....	261.5	364.3	353.5	298.0	271.2	16.39	22.85	22.10	18.70	17.05
Total	213.6	288.0	315.7	267.9	248.8	13.55	18.30	19.95	16.93	15.70

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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 Petroleum by Type of Purchase, Fuel Type, Census Division and State, 1998

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	
	Receipts (1,000 barrels)	Cost		Receipts (1,000 barrels)	Cost		(cents per MM Btu)	(\$ per bbl)	(cents per MM Btu)	(\$ per bbl)	(cents per MM Btu)	(\$ per bbl)
		(cents per MM Btu)	(\$ per bbl)		(cents per MM Btu)	(\$ per bbl)						
New England	17,720	199.2	12.71	17,713	207.2	13.18	324.3	18.84	—	—	203.2	12.95
Connecticut.....	6,735	215.7	13.84	7,405	220.8	14.06	328.4	19.14	—	—	218.4	13.96
Maine.....	—	—	—	3,197	202.0	12.83	304.9	17.78	—	—	202.0	12.83
Massachusetts.....	10,985	188.9	12.02	4,711	200.1	12.71	322.4	18.71	—	—	192.3	12.23
New Hampshire.....	—	—	—	2,400	185.9	11.87	323.0	18.69	—	—	185.9	11.87
Rhode Island.....	—	—	—	—	—	—	—	—	—	—	—	—
Vermont.....	—	—	—	—	—	—	327.1	18.70	—	—	—	—
Middle Atlantic	11,374	202.3	12.81	19,207	209.0	13.25	302.2	17.64	300.3	18.55	206.5	13.09
New Jersey.....	1,149	226.2	14.25	473	231.8	14.52	323.5	18.68	300.3	18.55	227.9	14.33
New York.....	10,225	199.6	12.65	12,648	206.0	13.04	335.8	19.55	—	—	203.2	12.87
Pennsylvania.....	—	—	—	6,086	213.3	13.58	299.7	17.50	—	—	213.3	13.58
East North Central	214	367.5	22.55	2,526	257.7	16.43	324.0	18.80	293.3	18.85	266.0	16.91
Illinois.....	—	—	—	955	260.1	16.57	331.6	19.28	293.3	18.85	260.1	16.57
Indiana.....	—	—	—	—	—	—	319.4	18.42	—	—	—	—
Michigan.....	214	367.5	22.55	1,571	256.2	16.35	315.9	18.44	—	—	269.1	17.10
Ohio.....	—	—	—	—	—	—	332.6	19.24	—	—	—	—
Wisconsin.....	—	—	—	—	—	—	348.9	20.52	—	—	—	—
West North Central	—	—	—	135	163.6	10.72	330.2	19.20	—	—	163.6	10.72
Iowa.....	—	—	—	—	—	—	332.9	19.45	—	—	—	—
Kansas.....	—	—	—	82	153.7	10.16	328.4	19.09	—	—	153.7	10.16
Minnesota.....	—	—	—	—	—	—	352.7	20.41	—	—	—	—
Missouri.....	—	—	—	53	179.1	11.60	329.8	19.10	—	—	179.1	11.60
Nebraska.....	—	—	—	—	—	—	354.5	20.49	—	—	—	—
North Dakota.....	—	—	—	—	—	—	311.9	18.19	—	—	—	—
South Dakota.....	—	—	—	—	—	—	—	—	—	—	—	—
South Atlantic	28,650	204.2	13.05	42,401	204.3	12.99	329.5	19.19	252.2	14.96	204.3	13.01
Delaware.....	1,262	223.7	14.24	758	187.8	11.95	315.9	18.38	—	—	210.3	13.38
District of Columbia.....	—	—	—	—	—	—	295.0	17.21	252.1	15.16	—	—
Florida.....	21,887	201.9	12.93	37,109	205.6	13.07	337.8	19.65	323.3	.82	204.2	13.02
Georgia.....	—	—	—	—	—	—	327.6	19.06	—	—	—	—
Maryland.....	5,501	208.8	13.27	253	193.4	12.28	295.1	17.25	—	—	208.1	13.22
North Carolina.....	—	—	—	—	—	—	310.5	18.02	—	—	—	—
South Carolina.....	—	—	—	—	—	—	327.6	19.01	—	—	—	—
Virginia.....	—	—	—	4,281	196.7	12.46	326.3	19.15	—	—	196.7	12.46
West Virginia.....	—	—	—	—	—	—	370.9	21.68	—	—	—	—
East South Central	—	—	—	8,307	198.1	13.11	335.3	19.66	—	—	198.1	13.11
Alabama.....	—	—	—	—	—	—	287.6	16.85	—	—	—	—
Kentucky.....	—	—	—	—	—	—	383.3	22.43	—	—	—	—
Mississippi.....	—	—	—	8,307	198.1	13.11	336.4	19.79	—	—	198.1	13.11
Tennessee.....	—	—	—	—	—	—	304.5	17.89	—	—	—	—
West South Central	—	—	—	1,201	216.3	14.00	360.5	21.13	—	—	216.3	14.00
Arkansas.....	—	—	—	—	—	—	370.8	21.99	—	—	—	—
Louisiana.....	—	—	—	1,190	215.8	13.98	335.7	19.82	—	—	215.8	13.98
Oklahoma.....	—	—	—	—	—	—	292.2	17.42	—	—	—	—
Texas.....	—	—	—	11	270.3	16.74	366.7	21.32	—	—	270.3	16.74
Mountain	—	—	—	—	—	—	423.9	24.69	—	—	—	—
Arizona.....	—	—	—	—	—	—	429.0	25.02	—	—	—	—
Colorado.....	—	—	—	—	—	—	—	—	—	—	—	—
Idaho.....	—	—	—	—	—	—	—	—	—	—	—	—
Montana.....	—	—	—	—	—	—	466.0	27.60	—	—	—	—
Nevada.....	—	—	—	—	—	—	379.6	22.14	—	—	—	—
New Mexico.....	—	—	—	—	—	—	439.3	25.09	—	—	—	—
Utah.....	—	—	—	—	—	—	439.6	25.80	—	—	—	—
Wyoming.....	—	—	—	—	—	—	405.5	23.70	—	—	—	—
Pacific Contiguous	—	—	—	—	—	—	292.4	17.69	—	—	—	—
California.....	—	—	—	—	—	—	274.7	16.71	—	—	—	—
Oregon.....	—	—	—	—	—	—	331.9	19.52	—	—	—	—
Washington.....	—	—	—	—	—	—	405.3	23.82	—	—	—	—
Pacific Noncontiguous	6,912	261.4	16.38	—	—	—	401.8	23.10	—	—	261.4	16.38
Alaska.....	—	—	—	—	—	—	—	—	—	—	—	—
Hawaii.....	6,912	261.4	16.38	—	—	—	401.8	23.10	—	—	261.4	16.38
Total	64,871	209.0	13.30	91,491	206.8	13.20	329.7	19.21	256.7	15.30	207.7	13.24

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu. • Cost = average delivered cost. Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 9. Receipts and Average Delivered Cost of Petroleum by Type, Census Division, and State, 1998

Census Division and State	No. 2 Fuel Oil			Nos. 4 & 5 Fuel Oil ¹			No. 6 Fuel Oil			Total		
	Receipts (1,000 barrels)	Heat Value (Btu per gallon)	Cost (cents per MM Btu)	Receipts (1,000 barrels)	Heat Value (Btu per gallon)	Cost (cents per MM Btu)	Receipts (1,000 barrels)	Heat Value (Btu per gallon)	Cost (cents per MM Btu)	Receipts (1,000 barrels)	Heat Value (Btu per gallon)	Cost (cents per MM Btu)
New England	122	138,315	324.3	—	—	—	35,433	151,757	203.2	35,559	151,708	203.5
Connecticut.....	52	138,754	328.4	—	—	—	14,140	152,182	218.4	14,192	152,132	218.7
Maine.....	6	138,834	304.9	—	—	—	3,197	151,264	202.0	3,204	151,240	202.1
Massachusetts.....	33	138,197	322.4	—	—	—	15,696	151,437	192.3	15,733	151,403	192.6
New Hampshire.....	26	137,800	323.0	—	—	—	2,400	152,005	185.9	2,427	151,852	187.2
Rhode Island.....	—	—	—	—	—	—	—	—	—	—	—	—
Vermont.....	4	136,130	327.1	—	—	—	—	—	—	4	136,130	327.1
Middle Atlantic	1,213	138,942	302.2	33	147,088	300.3	30,581	150,883	206.5	31,908	150,381	210.6
New Jersey.....	45	137,460	323.5	33	147,088	300.3	1,622	149,756	227.9	1,781	148,656	242.2
New York.....	55	138,575	335.8	—	—	—	22,873	150,771	203.2	22,928	150,742	203.5
Pennsylvania.....	1,113	139,020	299.7	—	—	—	6,086	151,602	213.3	7,199	149,657	225.7
East North Central	1,939	138,188	324.0	12	153,000	293.3	2,741	151,401	266.0	4,691	145,945	288.7
Illinois.....	275	138,430	331.6	12	153,000	293.3	955	151,670	260.1	1,241	148,753	275.2
Indiana.....	500	137,319	319.4	—	—	—	—	—	—	500	137,319	319.4
Michigan.....	632	138,977	315.9	—	—	—	1,786	151,258	269.1	2,418	148,047	280.6
Ohio.....	491	137,774	332.6	—	—	—	—	—	—	491	137,774	332.6
Wisconsin.....	41	139,979	348.9	—	—	—	—	—	—	41	139,979	348.9
West North Central	523	138,451	330.2	—	—	—	135	156,094	163.6	659	142,079	292.6
Iowa.....	121	139,097	332.9	—	—	—	—	—	—	121	139,097	332.9
Kansas.....	166	138,421	328.4	—	—	—	82	157,358	153.7	248	144,689	265.5
Minnesota.....	45	137,797	352.7	—	—	—	—	—	—	45	137,797	352.7
Missouri.....	104	137,893	329.8	—	—	—	53	154,155	179.1	158	143,394	275.0
Nebraska.....	15	137,643	354.5	—	—	—	—	—	—	15	137,643	354.5
North Dakota.....	72	138,812	311.9	—	—	—	—	—	—	72	138,812	311.9
South Dakota.....	—	—	—	—	—	—	—	—	—	—	—	—
South Atlantic	3,016	138,679	329.5	444	141,285	252.2	71,052	151,668	204.3	74,512	151,080	209.2
Delaware.....	96	138,496	315.9	—	—	—	2,020	151,551	210.3	2,116	150,957	214.7
District of Columbia.....	8	138,932	295.0	438	143,146	252.1	—	—	—	446	143,071	252.9
Florida.....	822	138,496	337.8	6	6,017	323.3	58,996	151,773	204.2	59,824	151,576	205.9
Georgia.....	738	138,497	327.6	—	—	—	—	—	—	738	138,497	327.6
Maryland.....	250	139,174	295.1	—	—	—	5,754	151,281	208.1	6,005	150,776	211.5
North Carolina.....	406	138,168	310.5	—	—	—	—	—	—	406	138,168	310.5
South Carolina.....	109	138,122	327.6	—	—	—	—	—	—	109	138,122	327.6
Virginia.....	262	139,748	326.3	—	—	—	4,281	150,796	196.7	4,543	150,158	203.7
West Virginia.....	324	139,186	370.9	—	—	—	—	—	—	324	139,186	370.9
East South Central	544	139,619	335.3	—	—	—	8,307	157,497	198.1	8,851	156,398	205.7
Alabama.....	112	139,510	287.6	—	—	—	—	—	—	112	139,510	287.6
Kentucky.....	208	139,329	383.3	—	—	—	—	—	—	208	139,329	383.3
Mississippi.....	72	140,064	336.4	—	—	—	8,307	157,497	198.1	8,379	157,347	199.2
Tennessee.....	152	139,886	304.5	—	—	—	—	—	—	152	139,886	304.5
West South Central	407	139,522	360.5	—	—	—	1,201	154,141	216.3	1,607	150,442	250.1
Arkansas.....	90	141,228	370.8	—	—	—	—	—	—	90	141,228	370.8
Louisiana.....	74	140,604	335.7	—	—	—	1,190	154,203	215.8	1,264	153,402	222.3
Oklahoma.....	7	141,968	292.2	—	—	—	—	—	—	7	141,968	292.2
Texas.....	235	138,444	366.7	—	—	—	11	147,431	270.3	246	138,847	362.1
Mountain	364	138,687	423.9	—	—	—	—	—	—	364	138,687	423.9
Arizona.....	144	138,851	429.0	—	—	—	—	—	—	144	138,851	429.0
Colorado.....	—	—	—	—	—	—	—	—	—	—	—	—
Idaho.....	—	—	—	—	—	—	—	—	—	—	—	—
Montana.....	14	141,000	466.0	—	—	—	—	—	—	14	141,000	466.0
Nevada.....	30	138,847	379.6	—	—	—	—	—	—	30	138,847	379.6
New Mexico.....	53	136,000	439.3	—	—	—	—	—	—	53	136,000	439.3
Utah.....	42	139,758	439.6	—	—	—	—	—	—	42	139,758	439.6
Wyoming.....	81	139,140	405.5	—	—	—	—	—	—	81	139,140	405.5
Pacific Contiguous	124	144,034	292.4	—	—	—	—	—	—	124	144,034	292.4
California.....	103	144,857	274.7	—	—	—	—	—	—	103	144,857	274.7
Oregon.....	6	140,000	331.9	—	—	—	—	—	—	6	140,000	331.9
Washington.....	15	139,908	405.3	—	—	—	—	—	—	15	139,908	405.3
Pacific Noncontiguous	4	136,873	401.8	—	—	—	6,912	149,211	261.4	6,916	149,205	261.5
Alaska.....	—	—	—	—	—	—	—	—	—	—	—	—
Hawaii.....	4	136,873	401.8	—	—	—	6,912	149,211	261.4	6,916	149,205	261.5
Total	8,255	138,766	329.7	489	141,967	256.7	156,362	151,754	207.7	165,191	151,066	213.6

¹ Blend of No. 2 Fuel Oil and No. 6 Fuel Oil.

Notes: • Totals for New Jersey and the Middle Atlantic Census division include 81 thousand barrels of kerosene. • Totals for Massachusetts and the New England Census division include 3.4 thousand barrels of Jet Fuel. • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu. • Cost = average delivered cost.

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 Petroleum by Sulfur Content, Census Division, and State, 1998

Census Division and State	0.3% or Less			More than 0.3% up to 0.5%			More than 0.5% up to 1.0%		
	Receipts (1,000 barrels)	Cost		Receipts (1,000 barrels)	Cost		Receipts (1,000 barrels)	Cost	
		(cents per MM Btu)	(\$ per bbl)		(cents per MM Btu)	(\$ per bbl)		(cents per MM Btu)	(\$ per bbl)
New England	482	268.6	16.82	3,261	226.2	14.29	25,984	203.5	12.99
Connecticut.....	319	262.6	16.38	2,746	226.5	14.30	11,074	215.1	13.80
Maine.....	42	268.7	17.00	115	218.4	14.00	1,745	219.8	13.98
Massachusetts.....	121	284.3	17.90	214	232.7	14.71	13,165	191.4	12.17
New Hampshire	—	—	—	185	220.1	13.92	—	—	—
Rhode Island	—	—	—	—	—	—	—	—	—
Vermont.....	—	—	—	—	—	—	—	—	—
Middle Atlantic	7,998	219.0	13.73	2,960	220.5	13.98	13,613	199.1	12.67
New Jersey.....	1,267	227.7	14.27	48	254.5	16.07	340	231.7	14.74
New York.....	6,731	217.3	13.62	882	206.8	12.97	9,436	194.6	12.39
Pennsylvania.....	—	—	—	2,030	225.5	14.38	3,837	207.4	13.18
East North Central	192	278.6	17.50	138	246.8	14.67	2,159	271.9	17.35
Illinois.....	179	282.1	17.79	—	—	—	788	255.7	16.33
Indiana.....	—	—	—	—	—	—	—	—	—
Michigan.....	13	228.0	13.55	138	246.8	14.67	1,372	281.2	17.94
Ohio.....	—	—	—	—	—	—	—	—	—
Wisconsin.....	—	—	—	—	—	—	—	—	—
West North Central	—	—	—	—	—	—	53	161.2	10.70
Iowa.....	—	—	—	—	—	—	—	—	—
Kansas.....	—	—	—	—	—	—	48	157.1	10.47
Minnesota.....	—	—	—	—	—	—	—	—	—
Missouri.....	—	—	—	—	—	—	5	201.3	12.81
Nebraska.....	—	—	—	—	—	—	—	—	—
North Dakota.....	—	—	—	—	—	—	—	—	—
South Dakota.....	—	—	—	—	—	—	—	—	—
South Atlantic	198	198.3	12.13	128	209.6	12.76	32,636	216.6	13.73
Delaware.....	—	—	—	—	—	—	2,020	210.3	13.38
District of Columbia	—	—	—	—	—	—	438	252.1	15.16
Florida.....	198	198.3	12.13	128	209.6	12.76	23,896	218.2	13.84
Georgia.....	—	—	—	—	—	—	—	—	—
Maryland.....	—	—	—	—	—	—	5,268	209.9	13.33
North Carolina	—	—	—	—	—	—	—	—	—
South Carolina	—	—	—	—	—	—	—	—	—
Virginia.....	—	—	—	—	—	—	1,014	210.6	13.37
West Virginia.....	—	—	—	—	—	—	—	—	—
East South Central	246	183.0	12.01	287	186.3	12.32	—	—	—
Alabama.....	—	—	—	—	—	—	—	—	—
Kentucky.....	—	—	—	—	—	—	—	—	—
Mississippi.....	246	183.0	12.01	287	186.3	12.32	—	—	—
Tennessee.....	—	—	—	—	—	—	—	—	—
West South Central	350	188.3	11.88	—	—	—	263	230.1	14.92
Arkansas.....	—	—	—	—	—	—	—	—	—
Louisiana.....	339	185.7	11.72	—	—	—	263	230.1	14.92
Oklahoma.....	—	—	—	—	—	—	—	—	—
Texas.....	11	270.3	16.74	—	—	—	—	—	—
Mountain	—	—	—	—	—	—	—	—	—
Arizona.....	—	—	—	—	—	—	—	—	—
Colorado.....	—	—	—	—	—	—	—	—	—
Idaho.....	—	—	—	—	—	—	—	—	—
Montana.....	—	—	—	—	—	—	—	—	—
Nevada.....	—	—	—	—	—	—	—	—	—
New Mexico.....	—	—	—	—	—	—	—	—	—
Utah.....	—	—	—	—	—	—	—	—	—
Wyoming.....	—	—	—	—	—	—	—	—	—
Pacific Contiguous	—	—	—	—	—	—	—	—	—
California.....	—	—	—	—	—	—	—	—	—
Oregon.....	—	—	—	—	—	—	—	—	—
Washington.....	—	—	—	—	—	—	—	—	—
Pacific Noncontiguous	76	240.2	14.96	6,836	261.6	16.40	—	—	—
Alaska.....	—	—	—	—	—	—	—	—	—
Hawaii.....	76	240.2	14.96	6,836	261.6	16.40	—	—	—
Total	9,543	220.3	13.82	13,610	241.8	15.23	74,709	210.4	13.39

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • No. 2 Fuel Oil and kerosene have been omitted from this table. • MM Btu = million Btu. • Cost = average delivered cost.

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 Petroleum by Sulfur Content, Census Division, and State, 1998 (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 Cost	
	Receipts (1,000 barrels)	Cost		Receipts (1,000 barrels)	Cost		Receipts (1,000 barrels)	Cost		(cents per MM Btu)	(\$ per bbl)
		(cents per MM Btu)	(\$ per bbl)		(cents per MM Btu)	(\$ per bbl)		(cents per MM Btu)	(\$ per bbl)		
New England	3,670	184.8	11.79	2,036	180.3	11.43	—	—	—	203.2	12.95
Connecticut.....	—	—	—	—	—	—	—	—	—	218.4	13.96
Maine.....	319	167.1	10.61	976	176.4	11.17	—	—	—	202.0	12.83
Massachusetts.....	1,136	193.4	12.31	1,060	183.9	11.67	—	—	—	192.3	12.23
New Hampshire	2,215	183.0	11.69	—	—	—	—	—	—	185.9	11.87
Rhode Island	—	—	—	—	—	—	—	—	—	—	—
Vermont.....	—	—	—	—	—	—	—	—	—	—	—
Middle Atlantic	6,044	200.5	12.76	—	—	—	—	—	—	206.6	13.09
New Jersey	—	—	—	—	—	—	—	—	—	229.3	14.42
New York.....	5,825	200.4	12.74	—	—	—	—	—	—	203.2	12.87
Pennsylvania.....	219	204.4	13.35	—	—	—	—	—	—	213.3	13.58
East North Central	263	219.2	14.13	—	—	—	—	—	—	266.1	16.92
Illinois.....	—	—	—	—	—	—	—	—	—	260.5	16.60
Indiana.....	—	—	—	—	—	—	—	—	—	—	—
Michigan.....	263	219.2	14.13	—	—	—	—	—	—	269.1	17.10
Ohio.....	—	—	—	—	—	—	—	—	—	—	—
Wisconsin.....	—	—	—	—	—	—	—	—	—	—	—
West North Central	77	163.8	10.64	5	184.1	12.20	—	—	—	163.6	10.72
Iowa.....	—	—	—	—	—	—	—	—	—	—	—
Kansas	34	148.8	9.72	—	—	—	—	—	—	153.7	10.16
Minnesota.....	—	—	—	—	—	—	—	—	—	—	—
Missouri.....	43	175.9	11.38	5	184.1	12.20	—	—	—	179.1	11.60
Nebraska.....	—	—	—	—	—	—	—	—	—	—	—
North Dakota.....	—	—	—	—	—	—	—	—	—	—	—
South Dakota.....	—	—	—	—	—	—	—	—	—	—	—
South Atlantic	26,551	196.2	12.55	11,901	190.9	12.19	81	165.6	10.61	204.5	13.02
Delaware.....	—	—	—	—	—	—	—	—	—	210.3	13.38
District of Columbia	—	—	—	—	—	—	—	—	—	252.1	15.16
Florida.....	22,797	196.8	12.61	11,901	190.9	12.19	81	165.6	10.61	204.2	13.02
Georgia.....	—	—	—	—	—	—	—	—	—	—	—
Maryland.....	486	188.5	12.10	—	—	—	—	—	—	208.1	13.22
North Carolina	—	—	—	—	—	—	—	—	—	—	—
South Carolina	—	—	—	—	—	—	—	—	—	—	—
Virginia.....	3,268	192.4	12.18	—	—	—	—	—	—	196.7	12.46
West Virginia.....	—	—	—	—	—	—	—	—	—	—	—
East South Central	—	—	—	7,774	199.0	13.17	—	—	—	198.1	13.11
Alabama.....	—	—	—	—	—	—	—	—	—	—	—
Kentucky.....	—	—	—	—	—	—	—	—	—	—	—
Mississippi.....	—	—	—	7,774	199.0	13.17	—	—	—	198.1	13.11
Tennessee.....	—	—	—	—	—	—	—	—	—	—	—
West South Central	588	226.2	14.86	—	—	—	—	—	—	216.3	14.00
Arkansas.....	—	—	—	—	—	—	—	—	—	—	—
Louisiana.....	588	226.2	14.86	—	—	—	—	—	—	215.8	13.98
Oklahoma.....	—	—	—	—	—	—	—	—	—	—	—
Texas.....	—	—	—	—	—	—	—	—	—	270.3	16.74
Mountain	—	—	—	—	—	—	—	—	—	—	—
Arizona.....	—	—	—	—	—	—	—	—	—	—	—
Colorado.....	—	—	—	—	—	—	—	—	—	—	—
Idaho.....	—	—	—	—	—	—	—	—	—	—	—
Montana.....	—	—	—	—	—	—	—	—	—	—	—
Nevada.....	—	—	—	—	—	—	—	—	—	—	—
New Mexico.....	—	—	—	—	—	—	—	—	—	—	—
Utah.....	—	—	—	—	—	—	—	—	—	—	—
Wyoming.....	—	—	—	—	—	—	—	—	—	—	—
Pacific Contiguous	—	—	—	—	—	—	—	—	—	—	—
California.....	—	—	—	—	—	—	—	—	—	—	—
Oregon.....	—	—	—	—	—	—	—	—	—	—	—
Washington.....	—	—	—	—	—	—	—	—	—	—	—
Pacific Noncontiguous	—	—	—	—	—	—	—	—	—	261.4	16.38
Alaska.....	—	—	—	—	—	—	—	—	—	—	—
Hawaii.....	—	—	—	—	—	—	—	—	—	261.4	16.38
Total	37,192	196.3	12.55	21,717	192.9	12.47	81	165.6	10.61	207.9	13.25

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • No. 2 Fuel Oil and kerosene have been omitted from this table. • MM Btu = million Btu. • Cost = average delivered cost.

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

Table 11. Receipts of Gas by Census Division and State, 1994-1998

(Thousand Mcf)

Census Division and State	1998	1997	1996	1995	1994
New England	47,377	95,374	92,757	92,244	48,618
Connecticut	10,396	13,738	10,327	19,277	8,009
Maine	—	—	—	—	—
Massachusetts	21,207	50,755	48,011	64,350	38,595
New Hampshire	—	302	—	2,564	1,275
Rhode Island	15,586	30,544	34,396	5,914	572
Vermont	187	34	24	138	167
Middle Atlantic	226,248	236,208	168,075	300,502	225,983
New Jersey	16,742	17,920	21,698	37,601	36,154
New York	204,700	215,276	139,848	239,247	177,846
Pennsylvania	4,807	3,012	6,529	23,654	11,983
East North Central	102,818	79,833	56,337	79,583	61,161
Illinois	51,887	44,986	24,354	38,666	34,188
Indiana	4,258	2,631	3,213	6,134	7,309
Michigan	40,813	28,208	25,972	28,540	17,203
Ohio	1,532	719	848	3,394	842
Wisconsin	4,328	3,289	1,951	2,848	1,618
West North Central	43,200	29,509	27,345	41,390	33,313
Iowa	3,154	2,748	2,751	2,484	1,582
Kansas	29,899	20,050	17,621	21,093	22,203
Minnesota	2,176	2,768	2,707	5,283	3,504
Missouri	5,984	2,889	3,128	10,650	3,517
Nebraska	1,981	1,053	1,135	1,752	2,435
North Dakota	1	1	2	1	46
South Dakota	5	—	2	127	26
South Atlantic	285,398	310,596	314,620	369,271	220,663
Delaware	11,148	15,997	23,165	27,012	17,396
District of Columbia	—	—	—	—	—
Florida	241,059	276,254	272,616	305,896	171,834
Georgia	10,682	3,074	2,619	3,196	1,078
Maryland	4,988	4,864	5,258	11,659	8,684
North Carolina	1,879	1,220	800	1,020	548
South Carolina	435	196	193	5,325	2,584
Virginia	14,859	8,619	9,543	14,656	18,200
West Virginia	348	372	426	506	338
East South Central	56,595	49,081	63,790	89,399	64,255
Alabama	1,731	1,194	1,443	2,412	3,235
Kentucky	805	576	616	428	406
Mississippi	54,059	47,311	61,732	86,559	60,614
Tennessee	—	—	—	—	—
West South Central	1,712,041	1,445,739	1,441,962	1,524,483	1,474,719
Arkansas	22,561	17,490	32,443	29,696	22,782
Louisiana	289,492	264,879	243,098	313,325	257,290
Oklahoma	177,976	133,617	133,520	150,892	147,382
Texas	1,222,012	1,029,752	1,032,900	1,030,570	1,047,265
Mountain	134,733	111,722	91,680	96,760	93,950
Arizona	35,888	22,010	17,685	17,954	21,731
Colorado	3,544	2,361	2,328	1,478	2,154
Idaho	—	—	—	—	—
Montana	199	103	155	123	518
Nevada	51,812	52,189	41,221	39,118	31,440
New Mexico	39,169	32,753	28,218	30,833	30,540
Utah	4,045	2,207	1,985	7,126	7,436
Wyoming	77	98	88	128	131
Pacific Contiguous	295,660	385,685	329,657	411,515	621,342
California	266,743	374,700	314,789	390,482	595,291
Oregon	28,915	10,969	14,832	21,026	26,041
Washington	2	15	36	8	11
Pacific Noncontiguous	18,887	20,989	18,439	18,180	19,900
Alaska	18,887	20,989	18,439	18,180	19,900
Hawaii	—	—	—	—	—
Total	2,922,957	2,764,734	2,604,663	3,023,327	2,863,904

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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 12. Average Delivered Cost of Gas by Census Division and State, 1994-1998

Census Division and State	1998	1997	1996	1995	1994	1998	1997	1996	1995	1994
	(cents per million Btu)					(dollars per Mcf)				
New England	283.7	300.6	266.2	198.5	219.2	2.92	3.09	2.75	2.03	2.26
Connecticut	236.9	242.1	270.7	197.8	196.0	2.44	2.47	2.76	2.01	1.99
Maine	—	—	—	—	—	—	—	—	—	—
Massachusetts	273.8	301.0	296.2	200.6	224.1	2.82	3.11	3.07	2.06	2.32
New Hampshire	—	266.6	—	182.6	209.7	—	2.71	—	1.86	2.13
Rhode Island	328.5	326.4	222.6	184.9	222.5	3.38	3.35	2.29	1.90	2.29
Vermont	286.1	312.1	317.5	195.3	231.5	2.90	3.16	3.22	1.95	2.31
Middle Atlantic	252.0	282.2	287.7	207.7	221.6	2.60	2.90	2.96	2.13	2.29
New Jersey	262.0	295.1	289.8	211.8	209.6	2.74	3.06	2.96	2.18	2.17
New York	249.6	281.0	287.9	208.0	223.6	2.57	2.88	2.96	2.14	2.30
Pennsylvania	316.5	292.5	276.9	198.1	229.1	3.26	3.02	2.85	2.04	2.36
East North Central	230.6	259.7	270.7	186.7	219.8	1.91	1.99	1.83	1.46	1.86
Illinois	220.7	251.4	257.2	168.0	200.0	2.25	2.55	2.62	1.71	2.04
Indiana	280.5	316.3	341.2	244.1	265.9	2.88	3.23	3.48	2.49	2.72
Michigan	232.4	256.3	269.3	199.5	240.2	1.26	.80	.74	.73	.97
Ohio	308.4	362.9	335.0	227.7	374.5	3.17	3.72	3.44	2.34	3.85
Wisconsin	264.1	314.7	300.6	220.7	263.4	2.68	3.17	3.04	2.23	2.66
West North Central	224.1	267.8	241.2	171.7	201.4	2.25	2.64	2.38	1.70	1.99
Iowa	305.9	339.8	322.4	271.0	316.2	3.07	3.41	3.23	2.72	3.18
Kansas	213.7	258.4	231.8	161.0	192.1	2.14	2.53	2.26	1.58	1.89
Minnesota	233.8	243.6	216.9	176.1	213.1	2.36	2.45	2.18	1.77	2.14
Missouri	223.4	279.4	255.2	168.1	189.7	2.26	2.81	2.58	1.69	1.90
Nebraska	242.7	287.1	206.1	165.8	205.1	2.40	2.86	2.07	1.66	2.02
North Dakota	369.3	322.0	276.6	349.4	375.7	3.88	3.43	2.93	3.73	4.11
South Dakota	176.7	—	233.0	157.8	272.3	1.77	—	2.36	1.58	2.65
South Atlantic	279.3	302.9	307.9	224.8	222.2	2.93	3.16	3.12	2.28	2.26
Delaware	297.7	304.7	302.5	227.2	234.2	2.89	3.15	3.13	2.35	2.43
District of Columbia	—	—	—	—	—	—	—	—	—	—
Florida	276.2	304.3	309.7	223.6	215.5	2.91	3.18	3.12	2.26	2.18
Georgia	316.0	265.5	281.3	272.1	320.8	3.25	2.72	2.88	2.79	3.29
Maryland	263.2	285.3	298.6	215.7	246.6	2.75	2.97	3.11	2.24	2.57
North Carolina	267.9	310.7	300.5	232.8	325.7	2.81	3.22	3.11	2.40	3.38
South Carolina	353.4	397.6	445.4	160.3	167.1	3.62	4.07	4.56	1.64	1.71
Virginia	295.4	274.0	281.6	259.1	256.6	3.10	2.93	2.98	2.67	2.66
West Virginia	351.4	335.1	299.0	357.6	400.1	3.51	3.35	2.99	3.58	4.00
East South Central	224.5	263.4	269.0	172.3	192.6	2.33	2.73	2.79	1.79	2.01
Alabama	247.5	277.2	287.6	197.7	234.3	2.59	2.86	2.95	2.01	2.37
Kentucky	331.9	337.3	341.3	294.1	287.2	3.40	3.45	3.49	3.01	2.93
Mississippi	222.1	262.2	267.9	171.0	189.8	2.31	2.72	2.78	1.78	1.98
Tennessee	—	—	—	—	—	—	—	—	—	—
West South Central	227.0	266.7	255.9	190.5	218.5	2.33	2.74	2.63	1.96	2.25
Arkansas	224.0	261.9	246.6	169.7	182.3	2.29	2.70	2.52	1.74	1.87
Louisiana	227.4	269.3	281.6	180.6	207.4	2.37	2.79	2.94	1.88	2.17
Oklahoma	241.2	287.8	290.1	226.5	266.7	2.48	2.97	2.98	2.34	2.76
Texas	224.9	263.3	245.6	188.9	215.2	2.30	2.69	2.51	1.93	2.20
Mountain	230.8	245.5	231.0	168.5	202.6	2.36	2.51	2.36	1.73	2.08
Arizona	239.1	294.4	298.2	172.9	217.7	2.42	2.99	3.03	1.77	2.23
Colorado	300.3	317.5	209.8	173.0	212.5	2.98	3.16	2.09	1.74	2.21
Idaho	—	—	—	—	—	—	—	—	—	—
Montana	191.8	1348.5	269.3	358.1	114.9	2.06	14.45	2.90	3.84	1.21
Nevada	230.2	211.9	206.0	165.8	192.4	2.38	2.18	2.12	1.71	1.99
New Mexico	220.0	259.2	227.9	154.5	194.5	2.22	2.64	2.31	1.57	1.99
Utah	202.5	203.0	179.0	214.5	231.6	2.11	2.09	1.83	2.26	2.42
Wyoming	796.0	875.9	1211.2	797.8	561.4	8.31	9.12	12.59	8.32	5.80
Pacific Contiguous	257.5	298.0	261.9	217.7	245.7	2.63	3.04	2.68	2.23	2.53
California	268.6	302.2	267.9	222.3	248.4	2.74	3.08	2.75	2.28	2.56
Oregon	154.1	147.6	132.2	129.8	183.0	1.56	1.49	1.33	1.31	1.85
Washington	325.9	4519.5	474.7	438.2	471.2	3.44	47.38	4.98	4.60	4.95
Pacific Noncontiguous	179.8	174.0	144.6	128.6	112.9	1.80	1.74	1.45	1.29	1.13
Alaska	179.8	174.0	144.6	128.6	112.9	1.80	1.74	1.45	1.29	1.13
Hawaii	—	—	—	—	—	—	—	—	—	—
Total	238.1	276.0	264.1	198.4	223.0	2.43	2.81	2.69	2.02	2.28

Notes: • Totals may not equal sum of components because of independent rounding. • The cost of gas for Montana, Washington, and Wyoming change considerably from year to year due to the low volume of gas received and varying amounts of fixed costs that must be allocated to the gas. These costs may not be representative of the cost of natural gas in these States. • Data are for electric generating plants with a total steam-electric and combined-cycle 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 13. Receipts and Average Delivered Cost of Gas by Type of Purchase, Census Division and State, 1998

Census Division and State	Type of Purchase											
	Firm			Interruptible			Spot			Total		
	Receipts (1,000 Mcf)	Cost		Receipts (1,000 Mcf)	Cost		Receipts (1,000 Mcf)	Cost		Receipts (1,000 Mcf)	Cost	
		(cents per MM Btu)	(\$ per Mcf)		(cents per MM Btu)	(\$ per Mcf)		(cents per MM Btu)	(\$ per Mcf)		(cents per MM Btu)	(\$ per Mcf)
New England	20,319	334.1	3.44	21,843	237.9	2.44	5,215	279.1	2.87	47,377	283.7	2.92
Connecticut.....	—	—	—	10,340	237.0	2.44	57	216.4	2.23	10,396	236.9	2.44
Maine.....	—	—	—	—	—	—	—	—	—	—	—	—
Massachusetts.....	5,864	338.4	3.50	11,503	238.7	2.45	3,840	279.5	2.88	21,207	273.8	2.82
New Hampshire.....	—	—	—	—	—	—	—	—	—	—	—	—
Rhode Island.....	14,455	332.4	3.42	—	—	—	1,131	279.4	2.87	15,586	328.5	3.38
Vermont.....	—	—	—	—	—	—	187	286.1	2.90	187	286.1	2.90
Middle Atlantic	13,136	406.2	4.13	154,992	239.8	2.48	58,120	249.9	2.57	226,248	252.0	2.60
New Jersey.....	10	368.1	3.82	16,518	261.7	2.74	214	278.8	2.94	16,742	262.0	2.74
New York.....	11,433	413.5	4.20	135,403	235.9	2.43	57,864	249.8	2.56	204,700	249.6	2.57
Pennsylvania.....	1,693	358.0	3.71	3,071	293.7	3.01	43	291.7	3.02	4,807	316.5	3.26
East North Central	1,800	270.5	2.74	45,008	240.1	1.49	56,010	224.6	2.23	102,818	230.6	1.91
Illinois.....	525	276.6	2.83	3,067	229.9	2.36	48,295	219.5	2.24	51,887	220.7	2.25
Indiana.....	—	—	—	4,258	280.5	2.88	—	—	—	4,258	280.5	2.88
Michigan.....	971	264.9	2.66	32,881	225.4	1.07	6,961	246.5	1.97	40,813	232.4	1.26
Ohio.....	304	277.6	2.85	800	251.1	2.59	428	438.2	4.48	1,532	308.4	3.17
Wisconsin.....	—	—	—	4,002	258.9	2.62	326	327.1	3.34	4,328	264.1	2.68
West North Central	552	334.8	3.36	39,401	221.9	2.22	3,247	232.7	2.33	43,200	224.1	2.25
Iowa.....	309	408.2	4.13	2,719	295.9	2.97	126	268.4	2.68	3,154	305.9	3.07
Kansas.....	119	260.3	2.55	29,077	213.2	2.13	702	229.5	2.30	29,899	213.7	2.14
Minnesota.....	1	1,492.2	15.26	940	242.2	2.47	1,235	226.1	2.26	2,176	233.8	2.36
Missouri.....	—	—	—	4,801	219.9	2.23	1,184	237.7	2.38	5,984	223.4	2.26
Nebraska.....	123	208.2	2.08	1,858	245.1	2.42	—	—	—	1,981	242.7	2.40
North Dakota.....	—	—	—	1	369.3	3.88	—	—	—	1	369.3	3.88
South Dakota.....	—	—	—	5	176.7	1.77	—	—	—	5	176.7	1.77
South Atlantic	230,916	279.9	2.94	37,124	273.8	2.85	17,358	284.1	2.97	285,398	279.3	2.93
Delaware.....	10,770	303.5	2.97	—	—	—	378	95.3	.76	11,148	297.7	2.89
District of Columbia.....	—	—	—	—	—	—	—	—	—	—	—	—
Florida.....	220,113	278.8	2.94	18,773	251.4	2.63	2,173	223.5	2.36	241,059	276.2	2.91
Georgia.....	—	—	—	10,682	316.0	3.25	—	—	—	10,682	316.0	3.25
Maryland.....	33	367.6	3.82	4,920	261.3	2.73	35	442.1	4.59	4,988	263.2	2.75
North Carolina.....	—	—	—	1,879	267.9	2.81	—	—	—	1,879	267.9	2.81
South Carolina.....	—	—	—	435	353.4	3.62	—	—	—	435	353.4	3.62
Virginia.....	—	—	—	87	134.4	1.35	14,772	296.3	3.11	14,859	295.4	3.10
West Virginia.....	—	—	—	348	351.4	3.51	—	—	—	348	351.4	3.51
East South Central	1,874	223.3	2.30	22,747	228.0	2.39	31,975	222.0	2.29	56,595	224.5	2.33
Alabama.....	—	—	—	1,731	247.5	2.59	—	—	—	1,731	247.5	2.59
Kentucky.....	—	—	—	30	380.2	3.80	775	330.1	3.38	805	331.9	3.40
Mississippi.....	1,874	223.3	2.30	20,986	226.1	2.37	31,200	219.3	2.26	54,059	222.1	2.31
Tennessee.....	—	—	—	—	—	—	—	—	—	—	—	—
West South Central	912,865	234.8	2.41	105,603	213.5	2.20	693,573	218.8	2.25	1,712,041	227.0	2.33
Arkansas.....	1,715	168.7	1.82	—	—	—	20,846	228.8	2.33	22,561	224.0	2.29
Louisiana.....	104,714	242.5	2.53	38,218	214.9	2.25	146,561	219.8	2.29	289,492	227.4	2.37
Oklahoma.....	115,860	251.3	2.59	21,046	216.8	2.23	41,069	225.0	2.30	177,976	241.2	2.48
Texas.....	690,576	231.1	2.36	46,339	210.8	2.14	485,097	217.6	2.23	1,222,012	224.9	2.30
Mountain	31,200	248.6	2.51	69,441	216.8	2.21	34,093	243.1	2.51	134,733	230.8	2.36
Arizona.....	15,757	245.2	2.49	13,735	231.9	2.35	6,396	239.3	2.43	35,888	239.1	2.42
Colorado.....	3,544	300.3	2.98	—	—	—	—	—	—	3,544	300.3	2.98
Idaho.....	—	—	—	—	—	—	—	—	—	—	—	—
Montana.....	168	184.3	1.95	32	228.8	2.62	—	—	—	199	191.8	2.06
Nevada.....	—	—	—	28,081	212.7	2.20	23,731	250.8	2.59	51,812	230.2	2.38
New Mexico.....	11,654	235.0	2.37	27,515	213.6	2.16	—	—	—	39,169	220.0	2.22
Utah.....	—	—	—	79	186.9	1.94	3,966	202.8	2.12	4,045	202.5	2.11
Wyoming.....	77	796.0	8.31	—	—	—	—	—	—	77	796.0	8.31
Pacific Contiguous	23,136	194.4	1.95	62,548	276.4	2.79	209,976	258.8	2.65	295,660	257.5	2.63
California.....	17,083	220.4	2.21	62,546	276.4	2.79	187,114	270.4	2.77	266,743	268.6	2.74
Oregon.....	6,053	121.8	1.23	—	—	—	22,862	162.6	1.64	28,915	154.1	1.56
Washington.....	—	—	—	2	325.9	3.44	—	—	—	2	325.9	3.44
Pacific Noncontiguous	18,887	179.8	1.80	—	—	—	—	—	—	18,887	179.8	1.80
Alaska.....	18,887	179.8	1.80	—	—	—	—	—	—	18,887	179.8	1.80
Hawaii.....	—	—	—	—	—	—	—	—	—	—	—	—
Total	1,254,684	245.6	2.53	558,706	236.4	2.35	1,109,566	230.5	2.37	2,922,957	238.1	2.43

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet. • MM Btu = million Btu. • Cost = average delivered cost.

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 Gas by Type, Census Division, and State, 1998

Census Division and State	Receipts by Type											
	Natural Gas			Blast Furnace/ Coke Oven Gas			Refinery Gas			Total Gas		
	Receipts (1,000 Mcf)	Heat Value (Btu per cf)	Cost (cents per MM Btu)	Receipts (1,000 Mcf)	Heat Value (Btu per cf)	Cost (cents per MM Btu)	Receipts (1,000 Mcf)	Heat Value (Btu per cf)	Cost (cents per MM Btu)	Receipts (1,000 Mcf)	Heat Value (Btu per cf)	Cost (cents per MM Btu)
New England	47,377	1,029	283.7	—	—	—	—	—	—	47,377	1,029	283.7
Connecticut.....	10,396	1,030	236.9	—	—	—	—	—	—	10,396	1,030	236.9
Maine.....	—	—	—	—	—	—	—	—	—	—	—	—
Massachusetts.....	21,207	1,029	273.8	—	—	—	—	—	—	21,207	1,029	273.8
New Hampshire.....	—	—	—	—	—	—	—	—	—	—	—	—
Rhode Island.....	15,586	1,028	328.5	—	—	—	—	—	—	15,586	1,028	328.5
Vermont.....	187	1,014	286.1	—	—	—	—	—	—	187	1,014	286.1
Middle Atlantic	226,248	1,030	252.0	—	—	—	—	—	—	226,248	1,030	252.0
New Jersey.....	16,742	1,045	262.0	—	—	—	—	—	—	16,742	1,045	262.0
New York.....	204,700	1,029	249.6	—	—	—	—	—	—	204,700	1,029	249.6
Pennsylvania.....	4,807	1,029	316.5	—	—	—	—	—	—	4,807	1,029	316.5
East North Central	81,193	1,018	235.0	21,625	125	96.4	—	—	—	102,818	830	230.6
Illinois.....	51,887	1,019	220.7	—	—	—	—	—	—	51,887	1,019	220.7
Indiana.....	4,258	1,025	280.5	—	—	—	—	—	—	4,258	1,025	280.5
Michigan.....	19,189	1,012	251.3	21,625	125	96.4	—	—	—	40,813	542	232.4
Ohio.....	1,532	1,027	308.4	—	—	—	—	—	—	1,532	1,027	308.4
Wisconsin.....	4,328	1,013	264.1	—	—	—	—	—	—	4,328	1,013	264.1
West North Central	43,200	1,002	224.1	—	—	—	—	—	—	43,200	1,002	224.1
Iowa.....	3,154	1,003	305.9	—	—	—	—	—	—	3,154	1,003	305.9
Kansas.....	29,899	1,001	213.7	—	—	—	—	—	—	29,899	1,001	213.7
Minnesota.....	2,176	1,008	233.8	—	—	—	—	—	—	2,176	1,008	233.8
Missouri.....	5,984	1,011	223.4	—	—	—	—	—	—	5,984	1,011	223.4
Nebraska.....	1,981	989	242.7	—	—	—	—	—	—	1,981	989	242.7
North Dakota.....	1	1,050	369.3	—	—	—	—	—	—	1	1,050	369.3
South Dakota.....	5	1,000	176.7	—	—	—	—	—	—	5	1,000	176.7
South Atlantic	285,193	1,048	279.4	—	—	—	205	1,076	133.3	285,398	1,048	279.3
Delaware.....	11,148	971	297.7	—	—	—	—	—	—	11,148	971	297.7
District of Columbia.....	—	—	—	—	—	—	—	—	—	—	—	—
Florida.....	241,059	1,053	276.2	—	—	—	—	—	—	241,059	1,053	276.2
Georgia.....	10,682	1,028	316.0	—	—	—	—	—	—	10,682	1,028	316.0
Maryland.....	4,988	1,047	263.2	—	—	—	—	—	—	4,988	1,047	263.2
North Carolina.....	1,879	1,048	267.9	—	—	—	—	—	—	1,879	1,048	267.9
South Carolina.....	435	1,024	353.4	—	—	—	—	—	—	435	1,024	353.4
Virginia.....	14,654	1,049	297.7	—	—	—	205	1,076	133.3	14,859	1,050	295.4
West Virginia.....	348	1,000	351.4	—	—	—	—	—	—	348	1,000	351.4
East South Central	56,595	1,039	224.5	—	—	—	—	—	—	56,595	1,039	224.5
Alabama.....	1,731	1,044	247.5	—	—	—	—	—	—	1,731	1,044	247.5
Kentucky.....	805	1,024	331.9	—	—	—	—	—	—	805	1,024	331.9
Mississippi.....	54,059	1,039	222.1	—	—	—	—	—	—	54,059	1,039	222.1
Tennessee.....	—	—	—	—	—	—	—	—	—	—	—	—
West South Central	1,712,041	1,028	227.0	—	—	—	—	—	—	1,712,041	1,028	227.0
Arkansas.....	22,561	1,023	224.0	—	—	—	—	—	—	22,561	1,023	224.0
Louisiana.....	289,492	1,043	227.4	—	—	—	—	—	—	289,492	1,043	227.4
Oklahoma.....	177,976	1,030	241.2	—	—	—	—	—	—	177,976	1,030	241.2
Texas.....	1,222,012	1,024	224.9	—	—	—	—	—	—	1,222,012	1,024	224.9
Mountain	134,733	1,021	230.8	—	—	—	—	—	—	134,733	1,021	230.8
Arizona.....	35,888	1,014	239.1	—	—	—	—	—	—	35,888	1,014	239.1
Colorado.....	3,544	994	300.3	—	—	—	—	—	—	3,544	994	300.3
Idaho.....	—	—	—	—	—	—	—	—	—	—	—	—
Montana.....	199	1,072	191.8	—	—	—	—	—	—	199	1,072	191.8
Nevada.....	51,812	1,034	230.2	—	—	—	—	—	—	51,812	1,034	230.2
New Mexico.....	39,169	1,010	220.0	—	—	—	—	—	—	39,169	1,010	220.0
Utah.....	4,045	1,044	202.5	—	—	—	—	—	—	4,045	1,044	202.5
Wyoming.....	77	1,044	796.0	—	—	—	—	—	—	77	1,044	796.0
Pacific Contiguous	295,660	1,020	257.5	—	—	—	—	—	—	295,660	1,020	257.5
California.....	266,743	1,021	268.6	—	—	—	—	—	—	266,743	1,021	268.6
Oregon.....	28,915	1,011	154.1	—	—	—	—	—	—	28,915	1,011	154.1
Washington.....	2	1,055	325.9	—	—	—	—	—	—	2	1,055	325.9
Pacific Noncontiguous	18,887	1,000	179.8	—	—	—	—	—	—	18,887	1,000	179.8
Alaska.....	18,887	1,000	179.8	—	—	—	—	—	—	18,887	1,000	179.8
Hawaii.....	—	—	—	—	—	—	—	—	—	—	—	—
Total	2,901,128	1,028	238.2	21,625	125	96.4	205	1,076	133.3	2,922,957	1,022	238.1

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet. • cf = cubic foot. • MM Btu = million Btu. • Cost = average delivered cost.

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

Table 15. Total Heating Value and Cost of Fossil Fuels by Census Division and State, 1998

Census Division and State	Total Btu (billions)				% of Total Btu			Avg. Delivered Cost (cents per MM Btu)		
	Total	Coal	Petroleum	Gas	Coal	Petroleum	Gas	Coal	Petroleum	Gas
New England	417,196	141,888	226,571	48,737	34.0	54.3	11.7	167.6	203.5	283.7
Connecticut.....	118,647	17,263	90,680	10,704	14.5	76.4	9.0	181.1	218.7	236.9
Maine.....	20,349	—	20,349	—	—	100.0	—	—	202.1	—
Massachusetts.....	209,495	87,633	100,043	21,820	41.8	47.8	10.4	167.6	192.6	273.8
New Hampshire.....	52,468	36,992	15,476	—	70.5	29.5	—	161.2	187.2	—
Rhode Island.....	16,024	—	—	16,024	—	—	100.0	—	—	328.5
Vermont.....	213	—	23	190	—	10.7	89.3	—	327.1	286.1
Middle Atlantic	1,821,012	1,386,424	201,531	233,057	76.1	11.1	12.8	137.6	210.6	252.0
New Jersey.....	89,267	60,643	11,121	17,503	67.9	12.5	19.6	159.0	242.2	262.0
New York.....	598,442	242,673	145,159	210,609	40.6	24.3	35.2	143.4	203.5	249.6
Pennsylvania.....	1,133,303	1,083,108	45,251	4,944	95.6	4.0	.4	135.0	225.7	316.5
East North Central	4,535,091	4,421,009	28,756	85,326	97.5	.6	1.9	129.9	288.7	230.6
Illinois.....	834,110	773,462	7,756	52,891	92.7	.9	6.3	155.7	275.2	220.7
Indiana.....	1,208,152	1,200,903	2,883	4,366	99.4	.2	.4	112.3	319.4	280.5
Michigan.....	774,587	737,443	15,034	22,110	95.2	1.9	2.9	133.4	280.6	232.4
Ohio.....	1,277,712	1,273,297	2,842	1,574	99.7	.2	.1	136.5	332.6	308.4
Wisconsin.....	440,530	435,904	241	4,385	98.9	.1	1.0	107.4	348.9	264.1
West North Central	2,302,640	2,255,405	3,930	43,306	97.9	.2	1.9	88.9	292.6	224.1
Iowa.....	377,938	374,066	708	3,164	99.0	.2	.8	87.6	332.9	305.9
Kansas.....	352,233	320,794	1,506	29,933	91.1	.4	8.5	98.1	265.5	213.7
Minnesota.....	320,720	318,267	259	2,194	99.2	.1	.7	106.9	352.7	233.8
Missouri.....	696,840	689,840	951	6,049	99.0	.1	.9	91.7	275.0	223.4
Nebraska.....	207,035	204,991	85	1,960	99.0	*	.9	58.6	354.5	242.7
North Dakota.....	318,213	317,790	422	1	99.9	.1	*	76.2	311.9	369.3
South Dakota.....	29,662	29,657	—	5	100.0	—	*	92.7	—	176.7
South Atlantic ¹	4,702,868	3,930,915	472,804	299,149	83.6	10.1	6.4	144.7	209.2	279.3
Delaware.....	69,454	45,208	13,418	10,828	65.1	19.3	15.6	156.3	214.7	297.7
District of Columbia.....	2,680	—	2,680	—	—	100.0	—	—	252.9	—
Florida ¹	1,312,334	677,720	380,852	253,762	51.6	29.0	19.3	164.8	205.9	276.2
Georgia.....	761,361	746,088	4,291	10,982	98.0	.6	1.4	154.5	327.6	316.0
Maryland.....	323,373	280,127	38,026	5,220	86.6	11.8	1.6	145.7	211.5	263.2
North Carolina.....	694,084	689,757	2,358	1,969	99.4	.3	.3	143.8	310.5	267.9
South Carolina.....	332,610	331,533	632	446	99.7	.2	.1	144.7	327.6	353.4
Virginia.....	364,750	320,503	28,652	15,595	87.9	7.9	4.3	137.8	203.7	295.4
West Virginia.....	842,222	839,979	1,895	348	99.7	.2	*	122.2	370.9	351.4
East South Central ¹	2,443,695	2,326,766	58,142	58,787	95.2	2.4	2.4	126.0	205.7	224.5
Alabama ¹	714,788	712,324	657	1,808	99.7	.1	.3	157.5	287.6	247.5
Kentucky ¹	857,977	855,934	1,219	824	99.8	.1	.1	105.9	383.3	331.9
Mississippi.....	235,943	124,413	55,375	56,154	52.7	23.5	23.8	153.8	199.2	222.1
Tennessee ¹	634,986	634,095	891	—	99.9	.1	—	112.5	304.5	—
West South Central	4,029,776	2,260,083	10,156	1,759,537	56.1	.3	43.7	123.4	250.1	227.0
Arkansas.....	269,395	245,786	536	23,073	91.2	.2	8.6	147.2	370.8	224.0
Louisiana.....	537,502	227,428	8,145	301,929	42.3	1.5	56.2	142.9	222.3	227.4
Oklahoma.....	525,060	341,671	44	183,345	65.1	*	34.9	91.0	292.2	241.2
Texas.....	2,697,819	1,445,198	1,432	1,251,188	53.6	.1	46.4	123.9	362.1	224.9
Mountain	2,318,337	2,178,684	2,120	137,533	94.0	.1	5.9	107.3	423.9	230.8
Arizona.....	420,755	383,533	842	36,380	91.2	.2	8.6	133.1	429.0	239.1
Colorado.....	358,747	355,225	—	3,522	99.0	—	1.0	98.7	—	300.3
Idaho.....	—	—	—	—	—	—	—	—	—	—
Montana.....	177,732	177,435	83	214	99.8	*	.1	67.4	466.0	191.8
Nevada.....	233,689	179,966	173	53,550	77.0	.1	22.9	129.8	379.6	230.2
New Mexico.....	327,615	287,749	303	39,563	87.8	.1	12.1	130.6	439.3	220.0
Utah.....	341,433	336,962	247	4,224	98.7	.1	1.2	114.8	439.6	202.5
Wyoming.....	458,366	457,813	472	80	99.9	.1	*	78.6	405.5	796.0
Pacific Contiguous	437,602	135,305	748	301,549	30.9	.2	68.9	138.4	292.4	257.5
California.....	272,940	—	627	272,314	—	.2	99.8	—	274.7	268.6
Oregon.....	64,252	34,984	35	29,233	54.4	.1	45.5	108.9	331.9	154.1
Washington.....	100,410	100,321	86	2	99.9	.1	*	148.7	405.3	325.9
Pacific Noncontiguous	62,227	—	43,340	18,887	—	69.6	30.4	—	261.5	179.8
Alaska.....	18,887	—	—	18,887	—	—	100.0	—	—	179.8
Hawaii.....	43,340	—	43,340	—	—	100.0	—	—	261.5	—
Total	23,070,443	19,036,478	1,048,098	2,985,866	82.5	4.5	12.9	125.2	213.6	238.1

¹ The cost of coal shown for the States of Alabama, Florida, Kentucky, and Tennessee is not the total delivered cost of coal to these States and their respective Census Divisions. For more detailed information see footnotes 5, 6, and 7 at the end of Table 31.

* = Number less than 0.5 billion Btu or 0.05 percent.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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

Table 16. Origin of Coal by State, 1998

State of Origin	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Alabama	16,661	12,348	1.11	0.90	12.15	183.5	45.31
Arizona	12,183	10,948	.53	.48	9.64	120.0	26.28
Colorado	22,687	10,994	.46	.42	8.55	123.9	27.25
Illinois.....	34,961	11,345	2.23	1.96	8.89	131.9	29.93
Indiana.....	33,106	11,043	2.30	2.09	9.31	109.6	24.20
Kansas	353	10,931	4.08	3.73	19.33	102.1	22.33
Kentucky	120,492	12,214	1.56	1.28	10.46	134.8	32.93
Louisiana	3,432	6,764	.89	1.32	14.25	136.9	18.53
Maryland	3,951	12,350	1.66	1.35	14.54	122.8	30.33
Missouri.....	193	11,105	3.23	2.90	14.98	118.1	26.24
Montana.....	40,195	9,016	.53	.59	6.74	117.4	21.16
New Mexico.....	26,899	9,351	.70	.75	19.80	137.2	25.65
North Dakota.....	24,138	6,562	.76	1.16	9.11	76.2	10.00
Ohio.....	23,270	11,752	3.54	3.01	10.93	142.9	33.58
Oklahoma	162	12,664	3.50	2.76	10.48	109.5	27.73
Pennsylvania.....	58,095	12,612	1.81	1.43	11.04	131.6	33.19
Tennessee	2,435	12,433	1.29	1.04	10.53	127.8	31.77
Texas	49,342	6,405	1.04	1.63	16.09	100.3	12.84
Utah.....	18,933	11,520	.47	.40	10.59	114.9	26.47
Virginia.....	16,818	12,865	.99	.77	9.73	143.9	37.03
Washington.....	4,624	7,849	.67	.85	14.69	159.3	25.00
West Virginia.....	106,110	12,351	1.52	1.23	11.50	138.4	34.18
Wyoming.....	304,562	8,667	.34	.39	5.26	110.4	19.14
Subtotal	923,603	10,230	1.07	1.04	9.21	124.9	25.56
Imported ¹	5,845	11,967	.61	.51	5.67	155.6	37.24
Total.....	929,448	10,241	1.06	1.04	9.18	125.2	25.64

¹ Imported includes coal from Indonesia, Colombia, and Venezuela.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu.

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

Table 17. Receipts of Lignite by Electric Utility, 1998

Electric Utility	Receipts (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Basin Electric Power Coop	9,291	6,610	0.70	1.06	8.29	74.9	9.91
Central Louisiana Elec Co Inc.....	3,555	6,760	.92	1.35	14.27	136.8	18.49
Coop Power Assn	7,046	6,246	.68	1.09	11.05	81.1	10.13
Houston Lighting & Power Co.....	8,708	6,467	.98	1.52	17.42	91.3	11.81
Minnkota Power Coop Inc	4,136	6,702	.85	1.27	8.30	64.5	8.65
Montana-Dakota Utilities Co	3,025	6,924	1.00	1.44	8.46	87.8	12.15
San Miguel Electric Coop Inc.....	3,523	5,215	1.78	3.42	27.45	69.4	7.24
Southwestern Electric Power Co.....	3,598	6,559	1.54	2.35	13.94	111.9	14.68
Texas-New Mexico Power Co	1,761	6,837	.87	1.27	15.27	142.7	19.52
Texas Utilities Electric Co	31,629	6,478	.93	1.44	14.76	101.5	13.15
United Power Assn	917	6,720	.74	1.10	7.90	71.7	9.64
Total	77,189	6,471	.95	1.46	13.80	94.3	12.20

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

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

Table 18. Receipts, Quality, and Average Delivered Cost of Imported Coal, 1994-1998

Electric Utility Country of Origin	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
1998.....	5,845	11,967	0.61	0.51	5.7	155.6	37.24
Cajun Electric Power Coop Inc.....	303	9,485	.09	.09	.86	187.6	35.58
Indonesia.....	303	9,485	.09	.09	.86	187.6	35.58
Central Hudson Gas and Elect.....	594	13,070	.63	.48	7.1	167.3	43.72
Colombia.....	35	13,309	.62	.47	7.38	169.8	45.20
Venezuela.....	559	13,055	.63	.48	7.1	167.1	43.63
Central Power & Light Co.....	103	12,588	.69	.55	7.7	168.5	42.42
Colombia.....	60	12,760	.66	.52	6.60	171.0	43.65
Venezuela.....	42	12,344	.73	.59	9.20	164.8	40.69
Florida Power Corp.....	80	12,968	.73	.56	5.67	166.9	43.30
Venezuela.....	80	12,968	.73	.56	5.67	166.9	43.30
Gulf Power Co¹.....	434	12,415	.69	.56	5.64	149.6	37.13
Colombia.....	321	12,349	.65	.53	5.25	150.4	37.15
Venezuela.....	112	12,602	.81	.64	6.74	147.2	37.10
Jacksonville Electric Auth.....	1,588	11,821	.66	.56	6.84	145.1	34.30
Colombia.....	1,588	11,821	.66	.56	6.84	145.1	34.30
Mississippi Power Co.....	174	12,586	.75	.60	6.94	140.4	35.35
Venezuela.....	174	12,586	.75	.60	6.94	140.4	35.35
New England Power Co.....	939	12,578	.65	.52	6.18	160.9	40.48
Colombia.....	467	12,116	.62	.51	5.82	169.9	41.16
Venezuela.....	472	13,036	.68	.53	6.54	152.7	39.81
Public Service Co of NH.....	366	12,940	.65	.50	5.70	150.5	38.95
Colombia.....	35	13,188	.64	.49	5.50	172.8	45.58
Venezuela.....	331	12,914	.65	.51	5.72	148.1	38.25
Public Service Electric&Gas Co.....	39	12,998	.68	.52	5.50	155.3	40.37
Venezuela.....	39	12,998	.68	.52	5.50	155.3	40.37
San Antonio City of.....	67	11,972	.57	.47	5.21	190.9	45.70
Colombia.....	24	11,600	.33	.28	3.80	200.6	46.54
Venezuela.....	43	12,179	.70	.57	6.00	185.7	45.22
Savannah Electric & Power Co.....	414	12,492	1.01	.81	7.19	144.6	36.14
Venezuela.....	414	12,492	1.01	.81	7.19	144.6	36.14
Tampa Electric Co.....	597	9,515	.21	.22	1.09	157.1	29.89
Indonesia.....	597	9,515	.21	.22	1.09	157.1	29.89
United Illuminating Co.....	106	13,084	.60	.46	5.47	171.0	44.75
Venezuela.....	106	13,084	.60	.46	5.47	171.0	44.75
1997.....	4,871	11,848	.68	.57	5.81	159.5	37.80
Central Hudson Gas and Elect.....	497	13,131	.65	.49	6.63	172.6	45.32
Colombia.....	147	13,032	.65	.50	7.17	171.3	44.64
Venezuela.....	350	13,172	.65	.49	6.40	173.1	45.61
Central Power & Light Co.....	26	11,665	.47	.40	6.00	173.2	40.41
Colombia.....	26	11,665	.47	.40	6.00	173.2	40.41
Jacksonville Electric Auth.....	1,385	11,851	.78	.66	7.42	150.1	35.59
Colombia.....	1,385	11,851	.78	.66	7.42	150.1	35.59
New England Power Co.....	1,460	12,365	.65	.52	6.01	165.4	40.90
Colombia.....	1,078	12,112	.63	.52	5.93	166.2	40.26
Venezuela.....	383	13,078	.68	.52	6.22	163.3	42.70
Public Service Co of NH.....	305	12,345	.64	.52	5.98	164.7	40.66
Colombia.....	35	13,231	.63	.48	6.70	160.1	42.37
Venezuela.....	229	12,217	.67	.55	6.13	160.7	39.27
Indonesia.....	41	12,300	.49	.40	4.50	190.7	46.92
San Antonio City of.....	73	11,603	.34	.29	3.89	176.9	41.06
Colombia.....	73	11,603	.34	.29	3.89	176.9	41.06
Savannah Electric & Power Co.....	279	11,949	1.28	1.07	7.72	135.1	32.29
Venezuela.....	279	11,949	1.28	1.07	7.72	135.1	32.29
Tacoma Public Utilities.....	10	10,144	.43	.42	12.25	171.4	34.79
Canada.....	10	10,144	.43	.42	12.25	171.4	34.79
Tampa Electric Co.....	800	9,859	.43	.44	1.59	159.6	31.47
Venezuela.....	59	12,953	1.47	1.13	3.50	130.2	33.73
Indonesia.....	741	9,614	.35	.37	1.44	162.7	31.29
United Illuminating Co.....	35	13,387	.64	.48	4.30	169.6	45.41
Venezuela.....	35	13,387	.64	.48	4.30	169.6	45.41
1996.....	4,699	11,797	.63	.53	5.77	161.5	38.10
Gulf Power Co¹.....	298	12,207	.96	.79	5.94	231.9	56.61
Venezuela.....	298	12,207	.96	.79	5.94	231.9	56.61
Jacksonville Electric Auth.....	1,417	11,810	.66	.56	7.71	152.9	36.11
Colombia.....	1,417	11,810	.66	.56	7.71	152.9	36.11
New England Power Co.....	1,766	12,586	.65	.51	6.00	159.9	40.25
Colombia.....	630	12,032	.58	.48	5.60	161.7	38.91
Venezuela.....	1,135	12,893	.68	.53	6.23	159.0	40.99
Public Service Co of NH.....	154	12,586	.60	.48	5.72	174.2	43.84
Colombia.....	32	12,169	.66	.54	5.68	161.9	39.41
Venezuela.....	96	12,774	.55	.43	5.07	181.3	46.32
Indonesia.....	26	12,412	.72	.58	8.20	161.9	40.19
Savannah Electric & Power Co.....	210	12,143	1.08	.89	6.71	152.8	37.11
Venezuela.....	210	12,143	1.08	.89	6.71	152.8	37.11

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 18. Receipts, Quality, and Average Delivered Cost of Imported Coal, 1994-1998 (Continued)

Electric Utility Country of Origin	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
1996							
Tacoma Public Utilities.....	18	9,861	0.44	0.45	12.97	174.6	34.44
Canada.....	18	9,861	.44	.45	12.97	174.6	34.44
Tampa Electric Co.....	808	9,655	.29	.30	1.48	149.7	28.91
Indonesia.....	808	9,655	.29	.30	1.48	149.7	28.91
United Illuminating Co.....	28	13,174	.61	.46	4.10	185.0	48.74
Venezuela.....	28	13,174	.61	.46	4.10	185.0	48.74
1995							
Central Hudson Gas and Elect.....	28	13,281	.56	.42	7.30	224.1	59.53
Venezuela.....	28	13,281	.56	.42	7.30	224.1	59.53
Delmarva Power & Light Co.....	7	13,141	.75	.57	7.07	180.3	47.39
Colombia.....	7	13,141	.75	.57	7.07	180.3	47.39
Gulf Power Co ¹	891	12,342	.93	.75	6.32	231.5	57.16
Venezuela.....	891	12,342	.93	.75	6.32	231.5	57.16
Jacksonville Electric Auth.....	1,341	11,826	.67	.57	7.52	151.5	35.82
Colombia.....	1,341	11,826	.67	.57	7.52	151.5	35.82
New England Power Co.....	1,462	12,577	.64	.51	6.16	159.6	40.15
Colombia.....	558	12,195	.60	.49	5.24	157.1	38.33
Venezuela.....	904	12,813	.67	.52	6.73	161.0	41.27
Public Service Co of NH.....	296	12,658	.61	.48	6.16	162.2	41.06
Colombia.....	134	12,634	.61	.48	6.45	162.5	41.07
Venezuela.....	82	13,044	.71	.54	7.24	156.5	40.84
Indonesia.....	80	12,300	.52	.42	4.56	167.8	41.28
Tacoma Public Utilities.....	24	10,066	.47	.47	13.14	166.0	33.42
Canada.....	24	10,066	.47	.47	13.14	166.0	33.42
Tampa Electric Co.....	349	9,696	.31	.32	1.16	143.8	27.88
Indonesia.....	349	9,696	.31	.32	1.16	143.8	27.88
1994							
Baltimore Gas & Electric Co.....	88	12,379	.66	.53	7.36	147.3	36.46
Colombia.....	88	12,379	.66	.53	7.36	147.3	36.46
Cajun Electric Power Coop Inc.....	169	9,702	.10	.11	1.20	166.8	32.36
Indonesia.....	169	9,702	.10	.11	1.20	166.8	32.36
Carolina Power & Light Co.....	27	12,200	.70	.57	9.00	145.5	35.50
Colombia.....	27	12,200	.70	.57	9.00	145.5	35.50
Central Power & Light Co.....	153	11,929	.55	.46	5.03	148.9	35.51
Colombia.....	153	11,929	.55	.46	5.03	148.9	35.51
Delmarva Power & Light Co.....	22	12,370	.58	.47	5.98	168.2	41.61
Colombia.....	22	12,370	.58	.47	5.98	168.2	41.61
Detroit Edison Co.....	57	11,005	.23	.21	10.28	149.9	32.99
Canada.....	57	11,005	.23	.21	10.28	149.9	32.99
Florida Power Corp.....	84	12,778	.64	.50	6.50	156.3	39.93
Venezuela.....	84	12,778	.64	.50	6.50	156.3	39.93
Gulf Power Co ¹	781	12,118	.79	.65	6.51	193.5	46.91
South Africa.....	127	11,318	.65	.57	12.60	181.1	41.00
Colombia.....	316	12,293	.61	.50	4.27	171.2	42.10
Venezuela.....	337	12,255	1.01	.83	6.32	218.9	53.64
Holyoke Water Power Co.....	8	12,651	.43	.34	3.30	195.4	49.44
Indonesia.....	8	12,651	.43	.34	3.30	195.4	49.44
Jacksonville Electric Auth.....	2,032	11,883	.69	.58	7.40	135.6	32.22
Colombia.....	2,032	11,883	.69	.58	7.40	135.6	32.22
New England Power Co.....	1,052	12,691	.66	.52	6.59	158.4	40.20
Colombia.....	135	12,060	.60	.50	5.90	164.6	39.70
Venezuela.....	917	12,784	.67	.52	6.70	157.5	40.27
Public Service Co of NH.....	276	12,446	.58	.47	4.74	144.9	36.07
Colombia.....	163	12,505	.62	.49	5.55	135.5	33.89
Indonesia.....	113	12,360	.53	.43	3.58	158.7	39.23
Public Service Electric & Gas Co.....	23	12,870	.68	.53	6.90	166.9	42.96
Colombia.....	23	12,870	.68	.53	6.90	166.9	42.96
Savannah Electric & Power Co.....	39	12,163	.99	.81	7.77	182.7	44.44
Colombia.....	12	11,235	.69	.61	5.87	214.1	48.12
Venezuela.....	27	12,575	1.12	.89	8.61	170.2	42.81
Tacoma Public Utilities.....	6	9,806	.48	.49	12.80	178.0	34.91
Canada.....	6	9,806	.48	.49	12.80	178.0	34.91
Tampa Electric Co.....	147	9,871	.09	.09	1.10	143.0	28.24
Indonesia.....	147	9,871	.09	.09	1.10	143.0	28.24

¹ Coal shown as imported from Venezuela and delivered to the Gulf Power Company during 1993 thru 1996 included some coal that was a mixture of Illinois and Venezuela coal delivered under contract to the company.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu.

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

Table 19. Receipts of Appalachian Region Coal by Electric Utility, 1998

Electric Utility	Receipts (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Alabama Electric Coop Inc.....	1,053	11,951	2.00	1.68	12.30	134.0	32.03
Alabama Power Co.....	16,476	12,360	1.04	.84	12.20	184.3	45.56
American Mun Power Ohio Inc.....	826	11,589	5.18	4.47	15.05	83.5	19.35
Appalachian Power Co.....	12,419	12,247	.75	.62	11.96	139.0	34.04
Atlantic City Electric Co.....	676	12,804	1.99	1.56	10.06	184.9	47.35
Baltimore Gas & Electric Co.....	5,058	12,782	.88	.69	9.98	139.9	35.76
Big Rivers Electric Corp.....	652	11,236	1.76	1.57	13.76	106.5	23.93
Cardinal Operating Co.....	4,404	12,256	1.70	1.38	11.90	158.2	38.78
Carolina Power & Light Co.....	12,369	12,342	.91	.74	11.31	148.4	36.63
Cedar Falls City of.....	24	12,917	2.76	2.13	8.61	141.1	36.44
Central Hudson Gas & Elec Corp.....	397	12,926	.66	.51	8.45	169.1	43.72
Central Illinois Light Co.....	9	13,322	.76	.57	5.60	169.0	45.03
Central Operating Co.....	2,487	12,158	1.50	1.23	12.94	122.5	29.79
Cincinnati Gas & Electric Co.....	11,461	12,053	2.20	1.82	11.21	111.1	26.77
Cleveland Electric Illum Co.....	4,333	12,919	1.89	1.46	8.62	138.2	35.71
Columbia City of.....	28	13,193	1.19	.90	7.50	202.2	53.36
Columbus Southern Power Co.....	4,367	11,910	2.76	2.32	9.26	139.7	33.27
Consumers Power Co.....	5,372	12,388	.82	.66	10.68	158.8	39.34
Dayton Power & Light Co.....	8,366	11,662	.79	.68	14.20	125.4	29.24
Delmarva Power & Light Co.....	1,744	12,962	.98	.75	8.93	156.3	40.52
Detroit Edison Co.....	6,725	13,078	1.46	1.12	7.41	129.6	33.89
Duke Power Co.....	16,299	12,438	.89	.72	9.95	140.5	34.96
Duquesne Light Co.....	2,091	12,634	1.98	1.57	10.65	163.0	41.18
East Kentucky Power Coop Inc.....	3,752	12,328	.84	.68	10.50	114.0	28.10
Florida Power Corp.....	5,513	12,594	.83	.66	9.14	173.1	43.61
Gainesville Regional Utilities.....	639	13,098	.66	.50	7.23	165.8	43.43
Georgia Power Co.....	24,067	12,515	.95	.76	10.36	156.1	39.08
Grand Haven City of.....	58	12,915	2.49	1.93	8.65	141.5	36.56
Gulf Power Co.....	479	12,741	1.10	.87	9.35	164.3	41.87
Hamilton City of.....	165	12,303	.73	.59	10.10	140.7	34.62
Holland City of.....	139	13,043	.86	.66	6.07	174.0	45.39
Holyoke Water Power Co.....	380	13,130	1.04	.79	7.20	178.9	46.98
Indiana-Kentucky Electric Corp.....	1,557	12,421	2.33	1.87	9.32	138.4	34.38
Indiana Michigan Power Co.....	2,462	12,309	.96	.78	9.96	121.2	29.83
Jacksonville Electric Auth.....	1,699	12,707	1.30	1.03	9.82	169.3	43.03
Jamestown City of.....	96	12,674	2.15	1.69	10.02	130.2	33.00
Kentucky Power Co.....	2,936	12,231	1.18	.96	9.98	108.4	26.52
Kentucky Utilities Co.....	6,235	12,160	1.25	1.03	11.73	113.7	27.64
Lakeland City of.....	585	12,867	1.30	1.01	8.73	175.9	45.27
Lansing City of.....	652	12,530	.87	.70	8.69	164.0	41.09
Louisville Gas & Electric Co.....	1,844	11,824	3.33	2.81	13.72	93.5	22.12
Manitowoc Public Utilities.....	96	13,106	1.23	.94	7.06	161.8	42.40
Marquette City of.....	18	13,222	.82	.62	7.08	157.9	41.76
Metropolitan Edison Co.....	1,262	13,213	1.30	.98	7.16	138.8	36.67
Michigan South Central Pwr Agy.....	139	11,876	3.28	2.76	10.53	158.5	37.66
Mississippi Power Co.....	45	13,092	.99	.76	7.93	148.8	38.96
Monongahela Power Co.....	11,969	12,493	3.00	2.40	11.22	109.9	27.47
Montaup Electric Co.....	308	12,696	.73	.58	7.88	179.5	45.58
New England Power Co.....	1,846	12,518	.68	.55	10.08	166.6	41.71
New York State Elec & Gas Corp.....	3,510	12,974	2.10	1.62	8.30	134.3	34.84
Niagara Mohawk Power Corp.....	3,233	13,124	1.82	1.39	7.28	137.2	36.01
Northern Indiana Pub Serv Co.....	555	13,030	2.61	2.00	8.69	120.3	31.36
Northern States Power Co.....	32	13,166	1.09	.83	6.18	182.7	48.11
Ohio Edison Co.....	6,892	12,143	1.46	1.21	12.85	114.5	27.81
Ohio Power Co.....	14,258	11,703	2.69	2.30	12.04	168.3	39.40
Ohio Valley Electric Corp.....	2,841	12,948	2.09	1.61	7.74	110.9	28.73
Orange & Rockland Utils Inc.....	684	12,965	.64	.50	8.00	185.2	48.03
Orlando Utilities Comm.....	2,396	12,809	1.08	.84	8.19	173.0	44.31
Orrville City of.....	190	11,631	3.58	3.07	10.41	98.0	22.79
Painesville City of.....	94	12,521	2.43	1.94	7.89	135.7	33.97
Pennsylvania Electric Co.....	19,091	12,103	2.04	1.69	14.86	118.1	28.59
Pennsylvania Power & Light Co.....	8,275	12,473	1.70	1.36	12.39	143.5	35.80
Pennsylvania Power Co.....	6,935	12,011	3.44	2.86	12.97	161.9	38.88
Philadelphia Electric Co.....	1,274	13,185	1.71	1.29	7.74	144.4	38.07
Potomac Edison Co.....	160	12,229	.92	.76	13.31	131.0	32.03
Potomac Electric Power Co.....	6,576	13,025	1.35	1.04	8.08	151.7	39.53
PSI Energy Inc.....	1,150	13,177	2.15	1.63	7.26	106.0	27.94
Public Service Co of NH.....	1,042	13,200	1.67	1.26	7.06	164.9	43.54
Public Service Electric&Gas Co.....	1,572	13,253	.77	.58	8.24	147.8	39.19

See footnotes at end of table.

Table 19. Receipts of Appalachian Region Coal by Electric Utility, 1998 (Continued)

Electric Utility	Receipts (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Richmond City of.....	131	12,091	2.45	2.03	9.58	129.7	31.38
Rochester Public Utilities.....	1	12,650	1.35	1.07	7.90	150.0	37.95
Rochester Gas & Electric Corp.....	782	13,275	2.21	1.67	7.29	144.5	38.37
Savannah Electric & Power Co.....	430	10,683	.92	.86	19.40	140.4	29.99
Seminole Electric Coop Inc.....	1,051	12,941	2.84	2.20	7.95	159.8	41.35
South Carolina Electric&Gas Co.....	5,965	12,719	1.17	.92	9.71	153.7	39.11
South Carolina Pub Serv Auth.....	6,131	12,952	1.24	.96	7.88	135.6	35.13
South Mississippi El Pwr Assn.....	952	12,336	.89	.72	8.82	197.4	48.71
Southern Indiana Gas & Elec Co.....	65	12,907	1.15	.89	7.14	129.6	33.44
Tampa Electric Co.....	917	12,835	1.39	1.08	7.83	229.1	58.81
Tennessee Valley Authority.....	11,778	12,536	1.49	1.19	10.10	123.3	30.90
Toledo Edison Co.....	328	12,860	.77	.60	8.91	146.4	37.65
United Illuminating Co.....	551	13,148	.52	.39	7.05	183.0	48.13
Vineland City of.....	26	12,868	.78	.61	6.21	192.2	49.48
Virginia Electric & Power Co.....	14,082	12,451	1.26	1.01	11.50	129.2	32.18
West Penn Power Co.....	5,021	12,769	2.30	1.80	9.50	132.6	33.87
Wisconsin Electric Power Co.....	2,129	13,165	1.51	1.15	6.94	145.6	38.33
Wyandotte Municipal Serv Comm.....	110	12,520	1.13	.90	11.05	141.6	35.46
Total.....	317,786	12,419	1.54	1.24	10.87	141.1	35.05

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

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

Table 20. Receipts of Interior Region Coal by Electric Utility, 1998

Electric Utility	Receipts (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Alabama Electric Coop Inc.....	456	12,404	2.41	1.94	8.22	132.8	32.94
Alabama Power Co.....	1,428	12,028	1.73	1.44	11.39	126.7	30.47
Big Rivers Electric Corp.....	2,371	11,233	3.28	2.92	13.54	94.3	21.19
Cedar Falls City of.....	2	11,548	2.43	2.10	8.09	151.2	34.92
Central Electric Pwr Coop-MO.....	147	10,984	2.77	2.52	8.64	129.2	28.38
Central Illinois Light Co.....	2,889	10,882	2.53	2.33	8.20	143.6	31.25
Central Illinois Pub Serv Co.....	4,209	10,637	1.32	1.25	8.43	152.0	32.34
Central Iowa Power Coop.....	147	11,450	2.87	2.51	9.24	115.1	26.35
Cincinnati Gas & Electric Co.....	101	11,537	2.27	1.97	10.97	110.1	25.41
Commonwealth Edison Co.....	118	10,845	3.37	3.10	7.96	103.2	22.37
Dairyland Power Coop.....	765	11,946	.92	.77	6.12	133.8	31.97
Detroit Edison Co.....	25	11,900	1.29	1.08	6.80	152.3	36.25
Empire District Electric Co.....	157	12,037	3.21	2.67	12.00	122.1	29.40
Georgia Power Co.....	677	12,034	1.36	1.13	7.20	137.7	33.14
Grand Haven City of.....	120	11,025	2.33	2.11	10.54	138.2	30.47
Grand River Dam Authority.....	87	12,893	3.62	2.81	9.54	101.9	26.27
Gulf Power Co.....	2,703	12,050	1.66	1.38	7.73	151.6	36.54
Hoosier Energy R E C Inc.....	3,975	10,972	2.84	2.59	10.54	125.3	27.50
IES Utilities Co.....	36	12,008	.91	.76	6.78	159.2	38.22
Illinois Power Co.....	6,602	10,792	2.63	2.43	9.96	108.8	23.47
Independence City of.....	104	10,801	3.35	3.10	16.61	117.9	25.48
Indiana Michigan Power Co.....	183	11,575	2.30	1.99	9.43	110.3	25.54
Indianapolis Power & Light Co.....	7,689	11,069	2.34	2.12	9.13	98.5	21.81
Interstate Power Co.....	371	11,230	2.52	2.24	9.39	110.8	24.88
Kansas City City of.....	30	11,831	2.56	2.16	10.30	128.0	30.29
Kansas City Power & Light Co.....	374	10,908	4.03	3.69	19.13	103.5	22.57
Kentucky Utilities Co.....	1,103	11,467	2.78	2.43	9.08	101.9	23.36
Louisville Gas & Electric Co.....	5,104	11,268	3.35	2.97	12.52	98.8	22.27
Madison Gas & Electric Co.....	156	10,723	1.41	1.31	9.14	137.3	29.45
Manitowoc Public Utilities.....	17	11,702	.96	.82	6.27	152.4	35.68
Mississippi Power Co.....	1,421	11,969	1.51	1.26	7.38	141.1	33.78
Muscataine City of.....	90	11,013	1.35	1.23	8.90	125.0	27.53
Northern Indiana Pub Serv Co.....	2,705	11,029	2.94	2.67	9.53	122.3	26.98
Owensboro City of.....	1,321	10,819	3.12	2.89	12.47	96.2	20.81
PSI Energy Inc.....	15,181	10,961	1.81	1.65	9.22	110.3	24.18
Richmond City of.....	148	11,210	2.49	2.22	9.51	134.8	30.23
Rochester Public Utilities.....	111	11,275	1.31	1.16	8.22	154.3	34.79
Seminole Electric Coop Inc.....	2,540	11,953	2.94	2.46	7.80	187.4	44.79
Southern Illinois Power Coop.....	827	10,805	2.95	2.73	16.60	93.5	20.20
Southern Indiana Gas & Elec Co.....	3,189	11,388	3.61	3.17	9.00	92.9	21.16
Springfield City of.....	1,053	10,426	3.03	2.91	9.30	116.6	24.31
Springfield City of.....	179	12,008	.91	.76	6.43	149.4	35.87
St Joseph Light & Power Co.....	132	10,984	2.91	2.65	9.90	118.6	26.06
Tampa Electric Co.....	5,575	11,861	2.49	2.10	8.31	146.9	34.85
Tennessee Valley Authority.....	20,644	11,505	3.08	2.67	12.29	104.5	24.06
Union Electric Co.....	1,494	11,436	1.74	1.52	8.69	130.0	29.74
Wisconsin Power & Light Co.....	63	12,113	.85	.70	5.65	158.9	38.50
Total.....	98,820	11,266	2.54	2.25	10.14	117.1	26.38

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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. • MM Btu = million Btu.

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

Table 21. Receipts of Western Region Coal by Electric Utility, 1998

Electric Utility	Receipts (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Alabama Power Co.....	6,053	8,538	0.27	0.31	4.62	118.9	20.30
Ames City of	231	8,871	.18	.21	4.27	145.8	25.86
Arizona Electric Pwr Coop Inc.....	1,360	9,636	.55	.57	15.12	114.0	21.97
Arizona Public Service Co.....	12,145	9,162	.66	.72	19.16	113.3	20.76
Arkansas Power & Light Co.....	11,667	8,709	.28	.32	4.92	149.1	25.97
Associated Electric Coop Inc.....	9,376	8,831	.19	.21	4.38	85.0	15.01
Basin Electric Power Coop	7,906	8,400	.39	.47	5.08	45.9	7.71
Black Hills Corp.....	518	8,046	.66	.82	6.98	45.9	7.39
Cajun Electric Power Coop Inc	6,428	8,455	.45	.53	5.42	146.0	24.69
Central Electric Pwr Coop-MO.....	4	8,399	.41	.49	4.46	133.8	22.47
Central Illinois Pub Serv Co.....	2,009	9,174	.27	.29	5.41	114.1	20.94
Central Louisiana Elec Co Inc.....	1,617	8,571	.51	.60	7.25	139.2	23.86
Central Power & Light Co.....	2,396	9,699	.36	.37	5.56	137.8	26.72
Cleveland Electric Illum Co.....	51	8,793	.29	.33	5.17	124.9	21.97
Colorado Springs City of	1,590	10,567	.40	.38	7.14	127.6	26.96
Commonwealth Edison Co.....	15,508	8,841	.33	.37	5.04	223.7	39.56
Consumers Power Co.....	3,022	8,814	.41	.46	5.71	103.3	18.21
Dairyland Power Coop.....	1,789	8,804	.19	.21	4.38	100.3	17.66
Deseret Generation & Tran Coop.....	1,723	10,149	.43	.43	10.24	193.2	39.22
Detroit Edison Co.....	16,061	9,191	.32	.35	4.51	128.1	23.54
Electric Energy Inc.....	5,191	8,737	.22	.25	4.48	83.3	14.55
Empire District Electric Co.....	1,054	8,796	.19	.21	4.38	103.8	18.26
Fremont City of	236	8,618	.28	.33	4.63	92.3	15.91
Georgia Power Co.....	6,158	8,754	.37	.42	5.31	150.2	26.30
Grand Island City of.....	406	8,721	.45	.52	5.49	67.6	11.80
Grand River Dam Authority	3,808	8,413	.33	.40	4.99	86.9	14.63
Gulf States Utilities Co.....	2,141	8,691	.44	.51	5.35	137.8	23.96
Hastings City of.....	323	8,611	.31	.36	4.84	63.6	10.95
Holland City of.....	37	12,295	.59	.48	9.70	160.0	39.34
Houston Lighting & Power Co.....	11,433	8,617	.39	.46	5.06	176.3	30.39
IES Utilities Co.....	5,329	8,405	.35	.42	5.81	88.1	14.81
Illinois Power Co.....	1,452	11,754	.52	.44	9.37	137.4	32.29
Indiana-Kentucky Electric Corp.....	2,929	8,854	.22	.25	4.90	104.3	18.46
Indiana Michigan Power Co	9,245	8,674	.26	.30	4.67	105.6	18.33
Interstate Power Co.....	1,650	9,408	.42	.45	6.49	145.8	27.43
Kansas City City of.....	1,632	8,835	.39	.44	5.66	92.7	16.37
Kansas City Power & Light Co.....	10,377	8,612	.34	.40	5.23	71.5	12.32
Kansas Power & Light Co.....	9,830	8,684	.38	.44	5.09	112.4	19.52
Lansing City of.....	464	8,808	.29	.33	5.67	135.6	23.88
Los Angeles City of	5,460	11,710	.52	.44	10.11	134.3	31.45
Lower Colorado River Authority.....	5,694	8,590	.34	.40	5.47	94.7	16.27
Marquette City of	161	9,345	.34	.36	4.17	115.3	21.56
Minnesota Power & Light Co.....	4,079	9,064	.54	.60	6.22	114.0	20.66
Mississippi Power Co.....	3,295	9,314	.38	.41	4.57	145.2	27.05
Montana Power Co.....	10,243	8,480	.73	.86	9.53	66.9	11.34
Muscatine City of.....	762	8,513	.91	1.07	6.46	84.2	14.33
Nebraska Public Power District	6,477	8,640	.25	.29	4.59	49.2	8.50
Nevada Power Co.....	1,826	11,705	.44	.38	8.92	123.2	28.84
Northern Indiana Pub Serv Co.....	5,929	9,250	.42	.45	5.46	135.8	25.13
Northern States Power Co.....	13,374	8,803	.41	.46	6.34	103.9	18.29
Oklahoma Gas & Electric Co	9,882	8,630	.29	.34	4.90	82.2	14.20
Omaha Public Power District.....	4,498	8,488	.27	.32	4.96	69.6	11.81
Otter Tail Power Co.....	2,087	8,832	.65	.74	8.24	98.8	17.45
PacifiCorp	31,484	9,403	.55	.59	10.16	100.1	18.83
Plains Elec Gen&Trans Coop Inc.....	767	9,264	.83	.89	17.15	139.0	25.75
Platte River Power Authority	1,050	8,799	.26	.29	5.37	59.4	10.45
Portland General Electric Co	2,014	8,685	.32	.37	5.19	108.9	18.92
Public Service Co of Colorado	10,561	9,663	.38	.39	6.62	92.7	17.91
Public Service Co of NM.....	6,780	9,271	.84	.91	25.02	164.4	30.48
Public Service Co of Oklahoma	4,266	8,796	.20	.23	4.40	110.5	19.45
Salt River Proj Ag I & P Dist	10,206	10,693	.51	.48	10.56	131.4	28.10
San Antonio City of	5,395	8,371	.34	.41	5.95	97.1	16.26
Sierra Pacific Power Co.....	1,706	11,466	.38	.33	8.57	147.7	33.86
Sikeston City of.....	1,046	8,721	.35	.40	5.34	100.2	17.48
Southern California Edison Co.....	4,503	10,893	.51	.47	10.40	125.6	27.36
Southwestern Electric Power Co.....	9,138	8,441	.38	.45	4.82	151.4	25.55
Southwestern Public Service Co.....	8,909	8,873	.35	.40	5.40	161.1	28.59
Springfield City of.....	1,436	8,746	.37	.42	5.44	105.9	18.52
St Joseph Light & Power Co.....	302	9,315	.33	.36	5.62	88.9	16.57

See footnotes at end of table.

Table 21. Receipts of Western Region Coal by Electric Utility, 1998 (Continued)

Electric Utility	Receipts (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Sunflower Electric Coop Inc.....	1,601	8,476	0.30	0.36	5.03	110.7	18.77
Tacoma Public Utilities	1	10,800	.73	.68	66.06	165.5	35.74
Tampa Electric Co.....	1,064	8,724	.40	.46	5.15	134.4	23.45
Tennessee Valley Authority	10,000	10,648	.45	.42	7.91	113.9	24.25
Texas Municipal Power Agency	1,620	8,506	.31	.37	5.40	119.4	20.32
Texas Utilities Electric Co	1,651	8,726	.36	.41	4.96	108.7	18.96
Toledo Edison Co.....	1,402	8,722	.32	.36	5.21	120.4	21.00
Tri State G & T Assn Inc	4,861	10,189	.42	.42	7.11	108.6	22.13
Tucson Electric Power Co.....	3,408	9,436	.77	.81	16.54	141.6	26.72
Union Electric Co.....	16,123	8,710	.28	.33	5.00	91.3	15.91
UtiliCorp United Inc.....	1,606	9,614	.38	.39	5.87	90.1	17.33
West Texas Utilities Co	3,113	8,467	.39	.46	5.17	125.5	21.25
Western Farmers Elec Coop Inc	1,705	8,726	.36	.41	5.35	99.5	17.37
Wisconsin Electric Power Co	8,286	9,091	.36	.39	6.05	95.4	17.35
Wisconsin Power & Light Co.....	8,304	8,637	.38	.44	5.47	106.6	18.41
Wisconsin Public Service Corp.....	3,565	8,845	.23	.26	4.60	103.2	18.26
Wyandotte Municipal Serv Comm	*	8,852	.32	.36	11.96	126.9	22.47
Total	429,807	9,048	.40	.44	6.94	114.7	20.76

* = Number less than 0.5.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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. • MM Btu = million Btu.

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

Table 22. Destination and Origin of Coal by State, 1998

Destination Origin	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MMBtu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Alabama¹	30,920	11,519	1.13	0.99	10.45	157.5	36.28
Alabama	16,432	12,345	1.10	.89	12.17	183.9	45.40
Colorado	675	11,387	.46	.40	9.73	118.1	26.89
Illinois.....	1,124	12,266	2.19	1.78	8.65	130.6	32.03
Indiana.....	61	11,368	3.56	3.13	8.45	110.0	25.01
Kentucky	4,454	12,000	2.02	1.68	11.52	119.9	28.78
Pennsylvania.....	39	13,269	2.16	1.63	7.49	112.4	29.84
Tennessee.....	553	12,382	.88	.71	14.31	136.8	33.89
Virginia.....	35	12,510	.84	.67	9.28	138.7	34.69
West Virginia.....	1,494	12,195	1.86	1.53	12.38	131.1	31.98
Wyoming.....	6,053	8,538	.27	.31	4.62	118.9	20.30
Arizona	18,826	10,186	.55	.54	12.70	133.1	27.12
Arizona	7,680	10,981	.54	.49	9.19	116.8	25.65
Colorado	207	11,288	.47	.42	9.90	190.1	42.92
Montana.....	94	9,290	.36	.39	4.19	131.7	24.47
New Mexico.....	10,593	9,631	.56	.58	15.56	145.6	28.05
Wyoming.....	251	8,725	.25	.29	5.20	118.5	20.68
Arkansas	14,173	8,671	.29	.34	4.90	147.2	25.53
Wyoming.....	14,173	8,671	.29	.34	4.90	147.2	25.53
Colorado	18,061	9,834	.38	.39	6.73	98.7	19.41
Colorado.....	11,000	10,652	.43	.41	7.99	106.6	22.71
New Mexico.....	11	12,211	.53	.43	15.23	126.9	30.99
Wyoming.....	7,051	8,554	.30	.35	4.75	83.2	14.24
Connecticut	657	13,138	.53	.40	6.80	181.1	47.59
Kentucky	456	13,115	.50	.38	7.03	183.3	48.09
West Virginia.....	95	13,308	.61	.46	7.17	181.6	48.34
Imported	106	13,084	.60	.46	5.47	171.0	44.75
Delaware	1,744	12,962	.98	.75	8.93	156.3	40.52
Kentucky	92	12,837	.68	.53	6.54	172.2	44.20
Maryland.....	170	13,222	1.47	1.11	8.91	146.3	38.69
Pennsylvania.....	523	13,186	1.33	1.01	7.09	142.3	37.54
Virginia.....	145	13,642	.80	.58	6.14	176.6	48.19
West Virginia.....	814	12,656	.71	.56	10.89	162.1	41.03
Florida¹	27,904	12,144	1.55	1.28	8.01	164.8	40.03
Alabama	129	12,671	1.05	.83	10.01	160.0	40.55
Illinois.....	7,466	11,961	2.22	1.86	7.97	162.6	38.89
Indiana.....	30	10,864	3.03	2.79	10.20	125.2	27.20
Kentucky	13,443	12,544	1.48	1.18	8.49	168.2	42.20
Virginia.....	789	12,345	.77	.62	9.82	205.9	50.83
West Virginia.....	2,241	12,726	1.71	1.34	9.16	165.3	42.08
Wyoming.....	1,064	8,724	.40	.46	5.15	134.4	23.45
Imported	2,741	11,463	.57	.49	5.34	149.3	34.23
Georgia	31,748	11,750	.85	.72	9.40	154.5	36.31
Alabama	72	12,363	1.88	1.52	12.21	142.4	35.22
Illinois.....	677	12,034	1.36	1.13	7.20	137.7	33.14
Kentucky	16,043	12,510	1.02	.82	9.91	149.5	37.40
Tennessee.....	48	12,921	.65	.50	10.61	155.0	40.06
Virginia.....	3,447	12,909	.89	.69	9.73	152.9	39.48
West Virginia.....	4,888	12,093	.75	.62	13.04	180.2	43.58
Wyoming.....	6,158	8,754	.37	.42	5.31	150.2	26.30
Imported	414	12,492	1.01	.81	7.19	144.6	36.14
Illinois	39,867	9,700	1.10	1.13	6.91	155.7	30.22
Colorado	1,204	11,730	.52	.44	9.48	139.6	32.74
Illinois.....	13,985	10,698	2.46	2.30	9.67	123.3	26.39
Indiana.....	1,625	11,097	1.00	.90	8.18	152.4	33.83
Kentucky	98	11,635	2.69	2.31	8.87	118.9	27.67
Montana.....	1,713	9,638	.34	.35	3.86	219.7	42.36
Utah.....	818	11,488	.46	.40	9.03	157.6	36.21
Wyoming.....	20,425	8,711	.29	.34	4.92	178.8	31.15
Indiana	57,091	10,517	1.63	1.55	7.94	112.3	23.63
Illinois.....	4,043	11,024	2.35	2.14	9.82	117.2	25.85

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 22. Destination and Origin of Coal by State, 1998 (Continued)

Destination Origin	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MMBtu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Indiana (Continued)							
Indiana.....	28,750	11,034	2.32	2.11	9.30	107.5	23.73
Kentucky.....	1,406	12,555	1.45	1.16	8.42	121.0	30.38
Ohio.....	945	11,029	3.80	3.44	12.64	110.4	24.35
Pennsylvania.....	699	13,114	2.03	1.55	7.55	107.3	28.15
Virginia.....	813	13,814	.72	.52	5.63	159.6	44.10
West Virginia.....	2,332	12,527	1.45	1.16	9.82	117.3	29.39
Wyoming.....	18,103	8,892	.31	.34	4.97	115.7	20.58
Iowa	21,657	8,636	.44	.51	5.57	87.6	15.12
Colorado.....	515	11,748	.49	.42	9.29	132.4	31.12
Illinois.....	360	11,027	2.54	2.30	9.25	113.6	25.06
Indiana.....	90	11,013	1.35	1.23	8.90	125.0	27.53
Kentucky.....	195	11,916	2.46	2.06	9.05	118.2	28.18
Montana.....	141	9,605	.32	.34	4.11	139.4	26.78
Ohio.....	11	12,789	4.23	3.31	8.30	139.9	35.78
Pennsylvania.....	11	13,195	1.32	1.00	8.90	139.9	36.92
West Virginia.....	1	11,613	2.41	2.08	8.70	163.6	38.00
Wyoming.....	20,333	8,461	.38	.45	5.37	84.2	14.26
Kansas	18,445	8,696	.45	.52	5.45	98.1	17.06
Colorado.....	886	11,278	.47	.42	9.38	122.3	27.59
Illinois.....	30	11,831	2.56	2.16	10.30	128.0	30.29
Kansas.....	353	10,931	4.08	3.73	19.33	102.1	22.33
Missouri.....	21	10,532	3.21	3.05	15.68	126.5	26.65
Montana.....	378	9,342	.34	.37	4.08	93.4	17.46
Oklahoma.....	75	12,400	3.35	2.71	11.56	118.7	29.43
Wyoming.....	16,702	8,473	.36	.42	4.93	96.1	16.29
Kentucky¹	36,962	11,579	2.37	2.04	12.66	105.9	24.52
Colorado.....	2,841	11,738	.52	.44	9.31	127.7	29.98
Illinois.....	246	11,786	2.43	2.06	10.45	100.7	23.74
Indiana.....	2,022	11,150	3.27	2.93	10.40	96.6	21.53
Kentucky.....	24,333	11,445	2.62	2.29	13.63	103.8	23.76
Ohio.....	659	12,183	4.26	3.50	10.63	93.3	22.73
Pennsylvania.....	75	13,096	2.25	1.72	7.50	109.4	28.67
Utah.....	22	12,352	.62	.50	10.00	138.8	34.29
West Virginia.....	6,519	12,157	1.85	1.52	11.84	108.3	26.32
Wyoming.....	245	8,807	.31	.35	5.35	97.7	17.21
Louisiana	14,043	8,097	.56	.70	7.76	142.9	23.15
Colorado.....	52	11,199	.48	.42	9.73	152.6	34.18
Louisiana.....	3,432	6,764	.89	1.32	14.25	136.9	18.53
Texas.....	123	6,623	1.55	2.34	14.81	131.8	17.46
Wyoming.....	10,134	8,509	.46	.54	5.67	143.1	24.35
Imported.....	303	9,485	.09	.09	.86	187.6	35.58
Maryland	10,845	12,914	1.17	.91	9.04	145.7	37.63
Kentucky.....	485	13,112	.76	.58	6.52	145.9	38.26
Maryland.....	678	13,067	1.49	1.14	9.20	176.2	46.06
Pennsylvania.....	3,249	12,993	1.45	1.11	7.84	147.4	38.30
West Virginia.....	6,433	12,844	1.03	.80	9.82	141.5	36.35
Massachusetts	3,473	12,617	.72	.57	8.52	167.6	42.30
Kentucky.....	558	12,814	.64	.50	7.13	179.6	46.02
Pennsylvania.....	183	13,243	1.48	1.11	7.08	160.9	42.61
West Virginia.....	1,793	12,512	.70	.56	10.31	168.1	42.06
Imported.....	939	12,578	.65	.52	6.18	160.9	40.48
Michigan	34,906	10,563	.67	.63	6.41	133.4	28.19
Colorado.....	672	12,102	.55	.45	9.08	141.7	34.30
Illinois.....	25	11,900	1.29	1.08	6.80	152.3	36.25
Indiana.....	120	11,025	2.33	2.11	10.54	138.2	30.47
Kentucky.....	4,440	12,795	.87	.68	8.51	150.7	38.56
Montana.....	10,739	9,412	.37	.39	4.50	145.2	27.33
Ohio.....	153	11,927	3.19	2.67	10.52	157.6	37.59
Pennsylvania.....	3,730	13,130	1.51	1.15	6.95	124.9	32.81
Utah.....	37	12,395	.55	.44	8.50	140.8	34.91
West Virginia.....	4,913	12,456	1.16	.93	10.55	152.0	37.87
Wyoming.....	10,078	8,795	.30	.34	5.02	99.4	17.48

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 22. Destination and Origin of Coal by State, 1998 (Continued)

Destination Origin	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MMBtu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Minnesota	17,915	8,883	0.44	0.50	6.29	106.9	19.00
Illinois.....	42	11,953	1.38	1.16	6.84	161.0	38.50
Indiana.....	69	10,861	1.26	1.16	9.07	149.7	32.52
Kentucky.....	1	12,650	1.35	1.07	7.90	150.0	37.95
Montana.....	9,486	8,914	.59	.66	7.58	109.7	19.56
Wyoming.....	8,317	8,815	.26	.29	4.78	102.9	18.15
Mississippi	5,886	10,569	.75	.71	6.03	153.8	32.51
Alabama.....	28	13,083	.74	.57	8.50	148.0	38.73
Illinois.....	1,415	11,968	1.50	1.26	7.38	141.2	33.79
Kentucky.....	967	12,342	.91	.73	8.80	196.6	48.52
Montana.....	2,831	9,412	.37	.39	4.46	147.2	27.70
Pennsylvania.....	7	13,068	1.46	1.12	7.00	142.2	37.17
Wyoming.....	463	8,718	.42	.48	5.23	132.3	23.07
Imported.....	174	12,586	.75	.60	6.94	140.4	35.35
Missouri	38,589	8,938	.37	.41	5.18	91.7	16.40
Colorado.....	30	11,750	.63	.54	8.50	136.9	32.17
Illinois.....	1,803	11,451	1.91	1.67	8.53	131.1	30.03
Indiana.....	148	11,100	.67	.60	9.00	130.5	28.97
Kentucky.....	43	12,613	1.89	1.50	9.38	191.9	48.42
Missouri.....	172	11,175	3.23	2.89	14.90	117.2	26.19
Wyoming.....	36,392	8,788	.28	.31	4.95	88.6	15.57
Montana	10,520	8,433	.72	.85	9.49	67.4	11.36
Montana.....	10,123	8,438	.74	.88	9.69	67.9	11.46
Wyoming.....	397	8,314	.23	.28	4.45	54.4	9.04
Nebraska	11,940	8,584	.27	.32	4.77	58.6	10.07
Wyoming.....	11,940	8,584	.27	.32	4.77	58.6	10.07
Nevada	8,035	11,199	.47	.42	9.68	129.8	29.07
Arizona.....	4,503	10,893	.51	.47	10.40	125.6	27.36
Colorado.....	20	12,080	.50	.41	9.30	196.1	47.38
Utah.....	3,512	11,587	.41	.35	8.75	134.5	31.17
New Hampshire	1,408	13,133	1.40	1.07	6.71	161.2	42.35
Pennsylvania.....	814	13,175	1.48	1.13	7.05	166.1	43.78
West Virginia.....	229	13,289	2.32	1.75	7.10	160.6	42.68
Imported.....	366	12,940	.65	.50	5.70	150.5	38.95
New Jersey	2,312	13,113	1.13	.86	8.70	159.0	41.71
Kentucky.....	110	12,933	.75	.58	7.53	151.5	39.18
Pennsylvania.....	*	12,870	.78	.61	6.21	192.2	49.47
Virginia.....	760	13,969	.73	.52	5.15	153.8	42.97
West Virginia.....	1,403	12,667	1.39	1.10	10.81	162.9	41.26
Imported.....	39	12,998	.68	.52	5.50	155.3	40.37
New Mexico	15,841	9,082	.80	.88	22.80	130.6	23.72
New Mexico.....	15,841	9,082	.80	.88	22.80	130.6	23.72
New York	9,296	13,052	1.75	1.34	7.79	143.4	37.44
Kentucky.....	999	12,925	.65	.50	8.23	179.9	46.50
Ohio.....	5	12,612	3.99	3.16	8.31	127.7	32.21
Pennsylvania.....	3,770	12,927	1.63	1.26	8.16	136.7	35.35
West Virginia.....	3,930	13,202	2.31	1.75	7.42	137.1	36.20
Imported.....	594	13,070	.63	.48	7.08	167.3	43.72
North Carolina	27,818	12,398	.89	.72	10.53	143.8	35.66
Kentucky.....	15,721	12,338	.96	.77	10.42	141.8	35.00
Virginia.....	408	12,565	1.00	.79	11.15	136.6	34.33
West Virginia.....	11,689	12,472	.80	.65	10.67	146.7	36.59
North Dakota	24,199	6,566	.76	1.16	9.10	76.2	10.01
North Dakota.....	24,138	6,562	.76	1.16	9.11	76.2	10.00
Wyoming.....	61	8,226	.38	.46	5.12	77.5	12.75
Ohio	53,442	11,913	2.01	1.69	11.45	136.5	32.52
Illinois.....	2	12,246	.90	.73	5.20	132.3	32.40

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 22. Destination and Origin of Coal by State, 1998 (Continued)

Destination Origin	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MMBtu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Ohio (Continued)							
Indiana.....	19	11,515	1.23	1.07	8.55	114.2	26.31
Kentucky.....	8,492	11,874	.88	.74	12.36	123.6	29.35
Ohio.....	20,143	11,723	3.49	2.97	10.94	148.9	34.91
Pennsylvania.....	4,755	13,166	1.87	1.42	7.57	125.9	33.16
Virginia.....	586	13,668	.74	.54	5.74	125.5	34.30
West Virginia.....	17,992	12,013	1.11	.92	13.32	133.3	32.04
Wyoming.....	1,452	8,724	.31	.36	5.21	120.5	21.03
Oklahoma.....	19,747	8,651	.30	.35	4.87	91.0	15.74
Oklahoma.....	87	12,893	3.62	2.81	9.54	101.9	26.27
Wyoming.....	19,660	8,633	.29	.33	4.85	90.9	15.69
Oregon.....	2,014	8,685	.32	.37	5.19	108.9	18.92
Wyoming.....	2,014	8,685	.32	.37	5.19	108.9	18.92
Pennsylvania.....	43,948	12,323	2.19	1.78	12.86	135.0	33.28
Maryland.....	32	10,751	1.07	.99	23.19	131.4	28.24
Ohio.....	212	12,016	3.66	3.05	12.95	165.3	39.73
Pennsylvania.....	34,522	12,320	1.94	1.57	13.21	130.5	32.14
West Virginia.....	9,182	12,347	3.12	2.52	11.49	151.6	37.43
South Carolina.....	12,945	12,805	1.20	.94	8.90	144.7	37.05
Kentucky.....	11,287	12,793	1.19	.93	8.74	143.5	36.73
Tennessee.....	359	12,855	1.41	1.09	8.33	153.6	39.49
Virginia.....	1,041	12,992	1.36	1.04	10.57	150.6	39.13
West Virginia.....	258	12,505	.86	.69	10.39	157.6	39.41
South Dakota.....	1,699	8,728	.72	.82	9.12	92.7	16.19
Montana.....	1,699	8,728	.72	.82	9.12	92.7	16.19
Tennessee¹.....	27,023	11,733	1.69	1.44	8.89	112.5	26.39
Colorado.....	1,344	11,704	.50	.43	9.18	116.8	27.34
Illinois.....	2,915	12,248	2.03	1.66	8.25	107.7	26.37
Kentucky.....	13,822	12,068	2.21	1.83	9.57	112.9	27.26
Pennsylvania.....	637	13,166	2.11	1.60	7.85	109.1	28.72
Tennessee.....	1,476	12,333	1.44	1.17	9.65	116.9	28.84
Utah.....	1,446	11,917	.58	.49	9.47	123.6	29.46
Virginia.....	1,924	12,761	1.54	1.21	10.20	129.3	33.00
West Virginia.....	32	11,891	.71	.60	12.66	137.1	32.60
Wyoming.....	3,427	8,771	.33	.37	5.42	91.3	16.02
Texas.....	96,231	7,509	.71	.95	10.82	123.9	18.61
Colorado.....	1,375	10,502	.39	.37	6.06	141.5	29.72
Texas.....	49,219	6,405	1.04	1.63	16.10	100.2	12.83
Wyoming.....	45,467	8,596	.37	.43	5.26	142.1	24.43
Imported.....	170	12,344	.64	.52	6.70	177.1	43.72
Utah.....	14,896	11,310	.46	.41	11.17	114.8	25.97
Colorado.....	1,797	10,244	.43	.42	10.07	188.8	38.68
Utah.....	13,099	11,457	.47	.41	11.32	105.8	24.23
Virginia.....	12,716	12,603	.97	.77	9.96	137.8	34.73
Kentucky.....	2,959	12,804	1.22	.95	7.69	141.9	36.33
Pennsylvania.....	17	13,150	1.52	1.16	5.50	148.3	39.00
Virginia.....	6,868	12,612	.94	.75	10.77	133.6	33.69
West Virginia.....	2,872	12,370	.79	.64	10.39	143.7	35.55
Washington.....	6,106	8,215	.59	.72	12.14	148.7	24.44
Montana.....	1,482	9,356	.34	.37	4.19	121.1	22.67
Washington.....	4,624	7,849	.67	.85	14.69	159.3	25.00
West Virginia.....	34,130	12,305	1.86	1.51	12.17	122.2	30.06
Kentucky.....	32	12,229	.83	.68	10.74	114.1	27.92
Maryland.....	3,070	12,159	1.72	1.41	15.94	108.6	26.42
Ohio.....	1,142	12,519	3.85	3.08	9.29	88.9	22.26
Pennsylvania.....	2,891	12,695	1.50	1.18	10.31	125.3	31.81
West Virginia.....	26,995	12,271	1.83	1.49	12.06	124.8	30.62

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 22. Destination and Origin of Coal by State, 1998 (Continued)

Destination Origin	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MMBtu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Wisconsin	23,438	9,299	0.46	0.50	5.55	107.4	19.97
Colorado	68	12,130	.56	.46	10.09	141.4	34.30
Illinois	828	11,959	.91	.76	6.08	135.7	32.47
Indiana	173	10,818	1.36	1.26	8.86	138.9	30.05
Kentucky	55	13,102	.79	.61	6.67	186.7	48.91
Montana	1,509	9,097	.53	.58	6.02	112.2	20.41
New Mexico	454	12,092	.59	.49	14.37	152.8	36.96
Pennsylvania	2,173	13,161	1.52	1.15	6.95	145.5	38.30
West Virginia	7	13,272	2.11	1.59	7.70	172.5	45.78
Wyoming	18,171	8,625	.30	.35	5.05	95.7	16.50
Wyoming	26,029	8,794	.53	.61	7.52	78.6	13.83
Wyoming	26,029	8,794	.53	.61	7.52	78.6	13.83
Total	929,448	10,241	1.06	1.04	9.18	125.2	25.64

¹ The cost of coal shown for the States of Alabama, Florida, Kentucky, and Tennessee is not the total delivered cost of coal to these States. For more detailed information see footnotes 5, 6, and 7 at the end of Table 31.

* = Number less than 0.5 rounded to zero.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu.

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

Table 23. Origin and Destination of Coal by State, 1998

Origin Destination	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Alabama	16,661	12,348	1.11	0.90	12.15	183.5	45.31
Alabama	16,432	12,345	1.10	.89	12.17	183.9	45.40
Florida	129	12,671	1.05	.83	10.01	160.0	40.55
Georgia	72	12,363	1.88	1.52	12.21	142.4	35.22
Mississippi.....	28	13,083	.74	.57	8.50	148.0	38.73
Arizona	12,183	10,948	.53	.48	9.64	120.0	26.28
Arizona	7,680	10,981	.54	.49	9.19	116.8	25.65
Nevada.....	4,503	10,893	.51	.47	10.40	125.6	27.36
Colorado	22,687	10,994	.46	.42	8.55	123.9	27.25
Alabama	675	11,387	.46	.40	9.73	118.1	26.89
Arizona	207	11,288	.47	.42	9.90	190.1	42.92
Colorado	11,000	10,652	.43	.41	7.99	106.6	22.71
Illinois.....	1,204	11,730	.52	.44	9.48	139.6	32.74
Iowa.....	515	11,748	.49	.42	9.29	132.4	31.12
Kansas	886	11,278	.47	.42	9.38	122.3	27.59
Kentucky	2,841	11,738	.52	.44	9.31	127.7	29.98
Louisiana	52	11,199	.48	.42	9.73	152.6	34.18
Michigan.....	672	12,102	.55	.45	9.08	141.7	34.30
Missouri.....	30	11,750	.63	.54	8.50	136.9	32.17
Nevada.....	20	12,080	.50	.41	9.30	196.1	47.38
Tennessee	1,344	11,704	.50	.43	9.18	116.8	27.34
Texas	1,375	10,502	.39	.37	6.06	141.5	29.72
Utah	1,797	10,244	.43	.42	10.07	188.8	38.68
Wisconsin	68	12,130	.56	.46	10.09	141.4	34.30
Illinois	34,961	11,345	2.23	1.96	8.89	131.9	29.93
Alabama	1,124	12,266	2.19	1.78	8.65	130.6	32.03
Florida	7,466	11,961	2.22	1.86	7.97	162.6	38.89
Georgia.....	677	12,034	1.36	1.13	7.20	137.7	33.14
Illinois.....	13,985	10,698	2.46	2.30	9.67	123.3	26.39
Indiana.....	4,043	11,024	2.35	2.14	9.82	117.2	25.85
Iowa.....	360	11,027	2.54	2.30	9.25	113.6	25.06
Kansas	30	11,831	2.56	2.16	10.30	128.0	30.29
Kentucky	246	11,786	2.43	2.06	10.45	100.7	23.74
Michigan.....	25	11,900	1.29	1.08	6.80	152.3	36.25
Minnesota.....	42	11,953	1.38	1.16	6.84	161.0	38.50
Mississippi.....	1,415	11,968	1.50	1.26	7.38	141.2	33.79
Missouri.....	1,803	11,451	1.91	1.67	8.53	131.1	30.03
Ohio.....	2	12,246	.90	.73	5.20	132.3	32.40
Tennessee	2,915	12,248	2.03	1.66	8.25	107.7	26.37
Wisconsin	828	11,959	.91	.76	6.08	135.7	32.47
Indiana	33,106	11,043	2.30	2.09	9.31	109.6	24.20
Alabama	61	11,368	3.56	3.13	8.45	110.0	25.01
Florida	30	10,864	3.03	2.79	10.20	125.2	27.20
Illinois.....	1,625	11,097	1.00	.90	8.18	152.4	33.83
Indiana.....	28,750	11,034	2.32	2.11	9.30	107.5	23.73
Iowa.....	90	11,013	1.35	1.23	8.90	125.0	27.53
Kentucky	2,022	11,150	3.27	2.93	10.40	96.6	21.53
Michigan.....	120	11,025	2.33	2.11	10.54	138.2	30.47
Minnesota.....	69	10,861	1.26	1.16	9.07	149.7	32.52
Missouri.....	148	11,100	.67	.60	9.00	130.5	28.97
Ohio.....	19	11,515	1.23	1.07	8.55	114.2	26.31
Wisconsin	173	10,818	1.36	1.26	8.86	138.9	30.05
Kansas	353	10,931	4.08	3.73	19.33	102.1	22.33
Kansas	353	10,931	4.08	3.73	19.33	102.1	22.33
Kentucky	120,492	12,214	1.56	1.28	10.46	134.8	32.93
Alabama	4,454	12,000	2.02	1.68	11.52	119.9	28.78
Connecticut.....	456	13,115	.50	.38	7.03	183.3	48.09
Delaware.....	92	12,837	.68	.53	6.54	172.2	44.20
Florida	13,443	12,544	1.48	1.18	8.49	168.2	42.20
Georgia.....	16,043	12,510	1.02	.82	9.91	149.5	37.40
Illinois.....	98	11,635	2.69	2.31	8.87	118.9	27.67
Indiana.....	1,406	12,555	1.45	1.16	8.42	121.0	30.38
Iowa.....	195	11,916	2.46	2.06	9.05	118.2	28.18
Kentucky	24,333	11,445	2.62	2.29	13.63	103.8	23.76

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 23. Origin and Destination of Coal by State, 1998 (Continued)

Origin Destination	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Kentucky (Continued)							
Maryland	485	13,112	0.76	0.58	6.52	145.9	38.26
Massachusetts.....	558	12,814	.64	.50	7.13	179.6	46.02
Michigan.....	4,440	12,795	.87	.68	8.51	150.7	38.56
Minnesota.....	1	12,650	1.35	1.07	7.90	150.0	37.95
Mississippi.....	967	12,342	.91	.73	8.80	196.6	48.52
Missouri.....	43	12,613	1.89	1.50	9.38	191.9	48.42
New Jersey.....	110	12,933	.75	.58	7.53	151.5	39.18
New York.....	999	12,925	.65	.50	8.23	179.9	46.50
North Carolina	15,721	12,338	.96	.77	10.42	141.8	35.00
Ohio.....	8,492	11,874	.88	.74	12.36	123.6	29.35
South Carolina	11,287	12,793	1.19	.93	8.74	143.5	36.73
Tennessee.....	13,822	12,068	2.21	1.83	9.57	112.9	27.26
Virginia.....	2,959	12,804	1.22	.95	7.69	141.9	36.33
West Virginia.....	32	12,229	.83	.68	10.74	114.1	27.92
Wisconsin.....	55	13,102	.79	.61	6.67	186.7	48.91
Louisiana.....	3,432	6,764	.89	1.32	14.25	136.9	18.53
Louisiana.....	3,432	6,764	.89	1.32	14.25	136.9	18.53
Maryland.....	3,951	12,350	1.66	1.35	14.54	122.8	30.33
Delaware.....	170	13,222	1.47	1.11	8.91	146.3	38.69
Maryland.....	678	13,067	1.49	1.14	9.20	176.2	46.06
Pennsylvania.....	32	10,751	1.07	.99	23.19	131.4	28.24
West Virginia.....	3,070	12,159	1.72	1.41	15.94	108.6	26.42
Missouri.....	193	11,105	3.23	2.90	14.98	118.1	26.24
Kansas.....	21	10,532	3.21	3.05	15.68	126.5	26.65
Missouri.....	172	11,175	3.23	2.89	14.90	117.2	26.19
Montana.....	40,195	9,016	.53	.59	6.74	117.4	21.16
Arizona.....	94	9,290	.36	.39	4.19	131.7	24.47
Illinois.....	1,713	9,638	.34	.35	3.86	219.7	42.36
Iowa.....	141	9,605	.32	.34	4.11	139.4	26.78
Kansas.....	378	9,342	.34	.37	4.08	93.4	17.46
Michigan.....	10,739	9,412	.37	.39	4.50	145.2	27.33
Minnesota.....	9,486	8,914	.59	.66	7.58	109.7	19.56
Mississippi.....	2,831	9,412	.37	.39	4.46	147.2	27.70
Montana.....	10,123	8,438	.74	.88	9.69	67.9	11.46
South Dakota.....	1,699	8,728	.72	.82	9.12	92.7	16.19
Washington.....	1,482	9,356	.34	.37	4.19	121.1	22.67
Wisconsin.....	1,509	9,097	.53	.58	6.02	112.2	20.41
New Mexico.....	26,899	9,351	.70	.75	19.80	137.2	25.65
Arizona.....	10,593	9,631	.56	.58	15.56	145.6	28.05
Colorado.....	11	12,211	.53	.43	15.23	126.9	30.99
New Mexico.....	15,841	9,082	.80	.88	22.80	130.6	23.72
Wisconsin.....	454	12,092	.59	.49	14.37	152.8	36.96
North Dakota.....	24,138	6,562	.76	1.16	9.11	76.2	10.00
North Dakota.....	24,138	6,562	.76	1.16	9.11	76.2	10.00
Ohio.....	23,270	11,752	3.54	3.01	10.93	142.9	33.58
Indiana.....	945	11,029	3.80	3.44	12.64	110.4	24.35
Iowa.....	11	12,789	4.23	3.31	8.30	139.9	35.78
Kentucky.....	659	12,183	4.26	3.50	10.63	93.3	22.73
Michigan.....	153	11,927	3.19	2.67	10.52	157.6	37.59
New York.....	5	12,612	3.99	3.16	8.31	127.7	32.21
Ohio.....	20,143	11,723	3.49	2.97	10.94	148.9	34.91
Pennsylvania.....	212	12,016	3.66	3.05	12.95	165.3	39.73
West Virginia.....	1,142	12,519	3.85	3.08	9.29	88.9	22.26
Oklahoma.....	162	12,664	3.50	2.76	10.48	109.5	27.73
Kansas.....	75	12,400	3.35	2.71	11.56	118.7	29.43
Oklahoma.....	87	12,893	3.62	2.81	9.54	101.9	26.27
Pennsylvania.....	58,095	12,612	1.81	1.43	11.04	131.6	33.19
Alabama.....	39	13,269	2.16	1.63	7.49	112.4	29.84
Delaware.....	523	13,186	1.33	1.01	7.09	142.3	37.54

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 23. Origin and Destination of Coal by State, 1998 (Continued)

Origin Destination	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
Pennsylvania (Continued)							
Indiana.....	699	13,114	2.03	1.55	7.55	107.3	28.15
Iowa.....	11	13,195	1.32	1.00	8.90	139.9	36.92
Kentucky.....	75	13,096	2.25	1.72	7.50	109.4	28.67
Maryland.....	3,249	12,993	1.45	1.11	7.84	147.4	38.30
Massachusetts.....	183	13,243	1.48	1.11	7.08	160.9	42.61
Michigan.....	3,730	13,130	1.51	1.15	6.95	124.9	32.81
Mississippi.....	7	13,068	1.46	1.12	7.00	142.2	37.17
New Hampshire.....	814	13,175	1.48	1.13	7.05	166.1	43.78
New Jersey.....	*	12,870	.78	.61	6.21	192.2	49.47
New York.....	3,770	12,927	1.63	1.26	8.16	136.7	35.35
Ohio.....	4,755	13,166	1.87	1.42	7.57	125.9	33.16
Pennsylvania.....	34,522	12,320	1.94	1.57	13.21	130.5	32.14
Tennessee.....	637	13,166	2.11	1.60	7.85	109.1	28.72
Virginia.....	17	13,150	1.52	1.16	5.50	148.3	39.00
West Virginia.....	2,891	12,695	1.50	1.18	10.31	125.3	31.81
Wisconsin.....	2,173	13,161	1.52	1.15	6.95	145.5	38.30
Tennessee.....	2,435	12,433	1.29	1.04	10.53	127.8	31.77
Alabama.....	553	12,382	.88	.71	14.31	136.8	33.89
Georgia.....	48	12,921	.65	.50	10.61	155.0	40.06
South Carolina.....	359	12,855	1.41	1.09	8.33	153.6	39.49
Tennessee.....	1,476	12,333	1.44	1.17	9.65	116.9	28.84
Texas.....	49,342	6,405	1.04	1.63	16.09	100.3	12.84
Louisiana.....	123	6,623	1.55	2.34	14.81	131.8	17.46
Texas.....	49,219	6,405	1.04	1.63	16.10	100.2	12.83
Utah.....	18,933	11,520	.47	.40	10.59	114.9	26.47
Illinois.....	818	11,488	.46	.40	9.03	157.6	36.21
Kentucky.....	22	12,352	.62	.50	10.00	138.8	34.29
Michigan.....	37	12,395	.55	.44	8.50	140.8	34.91
Nevada.....	3,512	11,587	.41	.35	8.75	134.5	31.17
Tennessee.....	1,446	11,917	.58	.49	9.47	123.6	29.46
Utah.....	13,099	11,457	.47	.41	11.32	105.8	24.23
Virginia.....	16,818	12,865	.99	.77	9.73	143.9	37.03
Alabama.....	35	12,510	.84	.67	9.28	138.7	34.69
Delaware.....	145	13,642	.80	.58	6.14	176.6	48.19
Florida.....	789	12,345	.77	.62	9.82	205.9	50.83
Georgia.....	3,447	12,909	.89	.69	9.73	152.9	39.48
Indiana.....	813	13,814	.72	.52	5.63	159.6	44.10
New Jersey.....	760	13,969	.73	.52	5.15	153.8	42.97
North Carolina.....	408	12,565	1.00	.79	11.15	136.6	34.33
Ohio.....	586	13,668	.74	.54	5.74	125.5	34.30
South Carolina.....	1,041	12,992	1.36	1.04	10.57	150.6	39.13
Tennessee.....	1,924	12,761	1.54	1.21	10.20	129.3	33.00
Virginia.....	6,868	12,612	.94	.75	10.77	133.6	33.69
Washington.....	4,624	7,849	.67	.85	14.69	159.3	25.00
Washington.....	4,624	7,849	.67	.85	14.69	159.3	25.00
West Virginia.....	106,110	12,351	1.52	1.23	11.50	138.4	34.18
Alabama.....	1,494	12,195	1.86	1.53	12.38	131.1	31.98
Connecticut.....	95	13,308	.61	.46	7.17	181.6	48.34
Delaware.....	814	12,656	.71	.56	10.89	162.1	41.03
Florida.....	2,241	12,726	1.71	1.34	9.16	165.3	42.08
Georgia.....	4,888	12,093	.75	.62	13.04	180.2	43.58
Indiana.....	2,332	12,527	1.45	1.16	9.82	117.3	29.39
Iowa.....	1	11,613	2.41	2.08	8.70	163.6	38.00
Kentucky.....	6,519	12,157	1.85	1.52	11.84	108.3	26.32
Maryland.....	6,433	12,844	1.03	.80	9.82	141.5	36.35
Massachusetts.....	1,793	12,512	.70	.56	10.31	168.1	42.06
Michigan.....	4,913	12,456	1.16	.93	10.55	152.0	37.87
New Hampshire.....	229	13,289	2.32	1.75	7.10	160.6	42.68
New Jersey.....	1,403	12,667	1.39	1.10	10.81	162.9	41.26
New York.....	3,930	13,202	2.31	1.75	7.42	137.1	36.20
North Carolina.....	11,689	12,472	.80	.65	10.67	146.7	36.59
Ohio.....	17,992	12,013	1.11	.92	13.32	133.3	32.04

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 23. Origin and Destination of Coal by State, 1998 (Continued)

Origin Destination	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short Ton)
West Virginia (Continued)							
Pennsylvania.....	9,182	12,347	3.12	2.52	11.49	151.6	37.43
South Carolina.....	258	12,505	.86	.69	10.39	157.6	39.41
Tennessee.....	32	11,891	.71	.60	12.66	137.1	32.60
Virginia.....	2,872	12,370	.79	.64	10.39	143.7	35.55
West Virginia.....	26,995	12,271	1.83	1.49	12.06	124.8	30.62
Wisconsin.....	7	13,272	2.11	1.59	7.70	172.5	45.78
Wyoming.....	304,562	8,667	.34	.39	5.26	110.4	19.14
Alabama.....	6,053	8,538	.27	.31	4.62	118.9	20.30
Arizona.....	251	8,725	.25	.29	5.20	118.5	20.68
Arkansas.....	14,173	8,671	.29	.34	4.90	147.2	25.53
Colorado.....	7,051	8,554	.30	.35	4.75	83.2	14.24
Florida.....	1,064	8,724	.40	.46	5.15	134.4	23.45
Georgia.....	6,158	8,754	.37	.42	5.31	150.2	26.30
Illinois.....	20,425	8,711	.29	.34	4.92	178.8	31.15
Indiana.....	18,103	8,892	.31	.34	4.97	115.7	20.58
Iowa.....	20,333	8,461	.38	.45	5.37	84.2	14.26
Kansas.....	16,702	8,473	.36	.42	4.93	96.1	16.29
Kentucky.....	245	8,807	.31	.35	5.35	97.7	17.21
Louisiana.....	10,134	8,509	.46	.54	5.67	143.1	24.35
Michigan.....	10,078	8,795	.30	.34	5.02	99.4	17.48
Minnesota.....	8,317	8,815	.26	.29	4.78	102.9	18.15
Mississippi.....	463	8,718	.42	.48	5.23	132.3	23.07
Missouri.....	36,392	8,788	.28	.31	4.95	88.6	15.57
Montana.....	397	8,314	.23	.28	4.45	54.4	9.04
Nebraska.....	11,940	8,584	.27	.32	4.77	58.6	10.07
North Dakota.....	61	8,226	.38	.46	5.12	77.5	12.75
Ohio.....	1,452	8,724	.31	.36	5.21	120.5	21.03
Oklahoma.....	19,660	8,633	.29	.33	4.85	90.9	15.69
Oregon.....	2,014	8,685	.32	.37	5.19	108.9	18.92
Tennessee.....	3,427	8,771	.33	.37	5.42	91.3	16.02
Texas.....	45,467	8,596	.37	.43	5.26	142.1	24.43
Wisconsin.....	18,171	8,625	.30	.35	5.05	95.7	16.50
Wyoming.....	26,029	8,794	.53	.61	7.52	78.6	13.83
Imported.....	5,845	11,967	.61	.51	5.67	155.6	37.24
Connecticut.....	106	13,084	.60	.46	5.47	171.0	44.75
Florida.....	2,741	11,463	.57	.49	5.34	149.3	34.23
Georgia.....	414	12,492	1.01	.81	7.19	144.6	36.14
Louisiana.....	303	9,485	.09	.09	.86	187.6	35.58
Massachusetts.....	939	12,578	.65	.52	6.18	160.9	40.48
Mississippi.....	174	12,586	.75	.60	6.94	140.4	35.35
New Hampshire.....	366	12,940	.65	.50	5.70	150.5	38.95
New Jersey.....	39	12,998	.68	.52	5.50	155.3	40.37
New York.....	594	13,070	.63	.48	7.08	167.3	43.72
Texas.....	170	12,344	.64	.52	6.70	177.1	43.72
Total.....	929,448	10,241	1.06	1.04	9.18	125.2	25.64

* = Number less than 0.5 rounded to zero.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • MM Btu = million Btu.

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

Table 24. Origin of Coal Received by Electric Utility and Plant, 1998

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Alabama Electric Coop Inc Lowman	1,510	12,088	2.13	1.76	11.07	133.6	32.31
Alabama	970	11,965	2.05	1.71	12.31	133.2	31.88
Fayette.....	570	11,943	1.84	1.54	12.04	135.2	32.29
Jefferson.....	119	12,353	2.16	1.75	11.24	132.0	32.61
Walker.....	280	11,844	2.42	2.04	13.30	129.7	30.72
Illinois	386	12,484	2.33	1.87	8.62	133.3	33.29
Gallatin	278	12,587	2.70	2.15	9.24	129.6	32.63
Jefferson.....	48	11,979	.91	.76	6.23	146.3	35.06
Saline	60	12,409	1.77	1.42	7.65	140.8	34.93
Kentucky.....	154	11,872	2.08	1.76	9.38	137.1	32.55
Boyd.....	55	11,434	1.78	1.56	12.58	143.2	32.76
Breathitt	28	12,495	.89	.72	11.54	144.3	36.05
Union	70	11,963	2.80	2.34	6.02	129.5	30.98
Alabama Power Co Barry¹	3,318	12,240	.72	.59	11.97	197.1	48.25
Alabama	3,012	12,246	.71	.58	12.38	201.5	49.35
Bibb.....	45	12,216	.76	.63	12.41	214.2	52.32
Jefferson.....	2,819	12,206	.70	.58	12.59	204.8	49.99
Tuscaloosa	148	13,031	.72	.55	8.36	139.0	36.22
Illinois	306	12,179	.83	.68	7.88	153.8	37.47
Jefferson.....	306	12,179	.83	.68	7.88	153.8	37.47
Alabama Power Co Gadsden	233	12,716	1.87	1.47	12.23	157.9	40.16
Alabama	233	12,716	1.87	1.47	12.23	157.9	40.16
Jefferson.....	194	12,758	1.84	1.44	12.16	161.2	41.13
Walker.....	39	12,510	2.03	1.62	12.59	141.6	35.42
Alabama Power Co Gaston	4,534	12,465	.96	.77	11.80	176.7	44.05
Alabama	3,947	12,504	.98	.78	11.71	180.2	45.06
Fayette.....	491	12,286	1.75	1.43	11.56	134.2	32.98
Jefferson.....	586	12,483	.68	.54	11.72	188.5	47.05
Shelby	442	12,233	.73	.59	13.38	153.1	37.46
Tuscaloosa	2,115	12,667	.83	.66	11.19	197.4	50.01
Walker.....	314	12,161	1.68	1.38	13.10	154.4	37.56
Kentucky.....	244	12,251	1.03	.84	12.39	152.0	37.24
Harlan	29	11,530	1.28	1.11	15.49	139.7	32.21
Knott	128	12,572	1.09	.87	11.76	167.3	42.06
Letcher	46	12,204	.90	.74	10.42	145.7	35.55
West Virginia.....	343	12,175	.69	.57	12.45	152.7	37.19
Lincoln.....	295	12,133	.68	.56	12.82	154.7	37.53
Mingo.....	38	12,408	.74	.59	10.56	142.5	35.35
Wayne.....	10	12,517	.89	.71	8.89	135.7	33.97
Alabama Power Co Gorgas¹	4,449	12,176	1.62	1.33	13.04	166.3	40.50
Alabama	4,449	12,176	1.62	1.33	13.04	166.3	40.50
Bibb.....	220	12,331	1.45	1.17	12.85	155.2	38.28
Fayette.....	1,075	12,232	1.90	1.56	11.96	143.3	35.06
Jefferson.....	1,496	12,251	1.51	1.24	13.61	183.7	45.02
Walker.....	1,658	12,052	1.56	1.30	13.25	167.0	40.25
Alabama Power Co Greene	1,559	12,059	1.78	1.48	12.53	122.5	29.55
Alabama	9	12,030	2.40	2.00	11.73	136.1	32.75
Walker.....	9	12,030	2.40	2.00	11.73	136.1	32.75
Kentucky.....	1,122	11,987	1.98	1.65	12.35	119.1	28.56
Union	1,122	11,987	1.98	1.65	12.35	119.1	28.56
West Virginia.....	427	12,250	1.27	1.03	13.03	130.9	32.08
Clay.....	427	12,250	1.27	1.03	13.03	130.9	32.08
Alabama Power Co James Miller	9,865	10,080	.41	.41	7.25	161.7	32.61
Alabama	3,812	12,529	.65	.52	11.43	208.1	52.15
Jefferson.....	2,769	12,472	.63	.51	11.58	204.5	51.02
Tuscaloosa	1,043	12,679	.69	.54	11.03	217.6	55.17
Wyoming.....	6,053	8,538	.27	.31	4.62	118.9	20.30
Campbell.....	6,053	8,538	.27	.31	4.62	118.9	20.30
American Mun Power Ohio Inc Richard Gorsuch	826	11,589	5.18	4.47	15.05	83.5	19.35

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
American Mun Power Ohio Inc Richard Gorsuch							
Ohio	826	11,589	5.18	4.47	15.05	83.5	19.35
Noble.....	826	11,589	5.18	4.47	15.05	83.5	19.35
Ames City of Ames	231	8,871	.18	.21	4.27	145.8	25.86
Wyoming	231	8,871	.18	.21	4.27	145.8	25.86
Campbell.....	231	8,871	.18	.21	4.27	145.8	25.86
Appalachian Power Co Amos	6,032	12,171	.78	.64	11.69	141.4	34.41
West Virginia.....	6,032	12,171	.78	.64	11.69	141.4	34.41
Boone	4,451	12,215	.79	.64	11.22	150.0	36.64
Clay	13	12,027	.68	.56	12.11	125.9	30.30
Fayette.....	182	12,027	.80	.66	13.48	107.1	25.77
Kanawha	813	12,106	.75	.62	13.12	117.5	28.46
Logan	537	11,965	.74	.62	12.76	118.2	28.28
Nicholas	36	12,032	.67	.56	11.79	127.7	30.72
Webster.....	*	12,489	.99	.79	11.70	86.7	21.66
Appalachian Power Co Clinch River	1,889	12,387	.75	.60	13.79	129.7	32.13
Virginia.....	1,889	12,387	.75	.60	13.79	129.7	32.13
Dickenson	146	13,387	.83	.62	8.63	114.3	30.61
Russell.....	1,588	12,274	.73	.60	14.56	131.5	32.27
Wise	155	12,599	.84	.67	10.75	127.5	32.13
Appalachian Power Co Glen Lyn	715	12,802	.89	.69	9.89	137.9	35.30
Virginia.....	715	12,802	.89	.69	9.89	137.9	35.30
Buchanan	252	12,517	.87	.69	10.87	137.0	34.31
Wise	463	12,957	.90	.69	9.36	138.3	35.84
Appalachian Power Co Kanawha River	1,017	12,255	.81	.66	12.21	131.9	32.32
West Virginia.....	1,017	12,255	.81	.66	12.21	131.9	32.32
Boone.....	25	12,091	.77	.63	13.40	112.3	27.16
Clay.....	315	12,588	.85	.68	10.79	171.6	43.21
Fayette.....	300	12,105	.80	.66	12.81	116.2	28.13
Kanawha	376	12,108	.79	.65	12.85	111.0	26.88
Appalachian Power Co Mountaineer	2,765	12,172	.65	.54	11.75	143.0	34.82
West Virginia.....	2,765	12,172	.65	.54	11.75	143.0	34.82
Boone.....	664	12,140	.65	.54	12.07	171.2	41.57
Clay.....	142	12,422	.66	.53	11.90	133.6	33.20
Fayette.....	7	12,134	.65	.54	12.61	111.8	27.12
Kanawha	549	12,210	.67	.55	13.17	121.1	29.58
Logan	241	12,340	.65	.52	12.35	143.4	35.38
Mingo.....	23	12,235	.66	.54	12.30	112.1	27.43
Nicholas	322	12,511	.66	.53	11.75	140.6	35.19
Wayne.....	803	11,952	.64	.53	10.30	138.9	33.19
Wyoming	14	11,557	.61	.53	11.46	119.4	27.61
Arizona Electric Pwr Coop Inc Apache	1,360	9,636	.55	.57	15.12	114.0	21.97
Colorado.....	9	11,700	.53	.45	14.78	160.3	37.51
Gunnison.....	9	11,700	.53	.45	14.78	160.3	37.51
New Mexico	1,352	9,623	.55	.57	15.12	113.7	21.87
Mckinley.....	1,352	9,623	.55	.57	15.12	113.7	21.87
Arizona Public Service Co Cholla	3,851	9,704	.44	.45	14.14	137.5	26.68
Montana	94	9,290	.36	.39	4.19	131.7	24.47
Big Horn.....	94	9,290	.36	.39	4.19	131.7	24.47
New Mexico	3,506	9,785	.46	.47	15.04	138.8	27.17
Colfax	91	10,679	.54	.50	17.87	125.1	26.72
Mckinley	3,415	9,761	.45	.46	14.97	139.2	27.18
Wyoming	251	8,725	.25	.29	5.20	118.5	20.68
Campbell.....	104	8,637	.25	.28	4.95	120.4	20.80
Converse	147	8,787	.26	.30	5.37	117.2	20.60
Arizona Public Service Co Four Corners	8,294	8,911	.76	.86	21.50	101.0	18.01

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Arizona Public Service Co Four Corners							
New Mexico.....	8,294	8,911	0.76	0.86	21.50	101.0	18.01
San Juan.....	8,294	8,911	.76	.86	21.50	101.0	18.01
Arkansas Power & Light Co Independence.....	5,732	8,813	.22	.25	4.66	139.1	24.52
Wyoming.....	5,732	8,813	.22	.25	4.66	139.1	24.52
Campbell.....	5,732	8,813	.22	.25	4.66	139.1	24.52
Arkansas Power & Light Co Whitebluff.....	5,935	8,608	.34	.40	5.17	159.0	27.37
Wyoming.....	5,935	8,608	.34	.40	5.17	159.0	27.37
Campbell.....	5,801	8,612	.34	.40	5.16	159.8	27.52
Carbon.....	51	8,522	.33	.39	5.14	147.6	25.16
Converse.....	83	8,362	.35	.42	6.12	108.5	18.15
Associated Electric Coop Inc Hill.....	4,659	8,835	.19	.21	4.37	73.9	13.06
Wyoming.....	4,659	8,835	.19	.21	4.37	73.9	13.06
Campbell.....	4,659	8,835	.19	.21	4.37	73.9	13.06
Associated Electric Coop Inc Madrid.....	4,717	8,827	.19	.21	4.39	95.9	16.94
Wyoming.....	4,717	8,827	.19	.21	4.39	95.9	16.94
Campbell.....	4,717	8,827	.19	.21	4.39	95.9	16.94
Atlantic City Electric Co Deepwater.....	170	12,852	.91	.71	10.74	194.9	50.11
West Virginia.....	170	12,852	.91	.71	10.74	194.9	50.11
Webster.....	170	12,852	.91	.71	10.74	194.9	50.11
Atlantic City Electric Co England.....	506	12,788	2.36	1.84	9.82	181.5	46.43
West Virginia.....	506	12,788	2.36	1.84	9.82	181.5	46.43
Marion.....	69	12,790	2.52	1.97	10.02	179.4	45.89
Monongalia.....	51	13,265	2.13	1.61	6.47	155.8	41.33
Upshur.....	385	12,725	2.36	1.85	10.23	185.5	47.20
Baltimore Gas & Electric Co Crane.....	745	13,300	1.67	1.26	7.58	139.6	37.13
West Virginia.....	745	13,300	1.67	1.26	7.58	139.6	37.13
Barbour.....	9	13,066	1.12	.86	8.70	143.3	37.45
Marion.....	479	13,302	1.97	1.48	7.35	137.9	36.68
Upshur.....	257	13,303	1.14	.85	7.98	142.7	37.97
Baltimore Gas & Electric Co Brandon Shores.....	3,255	12,614	.70	.56	10.77	139.9	35.29
Kentucky.....	485	13,112	.76	.58	6.52	145.9	38.26
Letcher.....	485	13,112	.76	.58	6.52	145.9	38.26
West Virginia.....	2,770	12,527	.70	.55	11.51	138.8	34.77
Boone.....	828	12,570	.72	.57	10.95	142.5	35.83
Kanawha.....	366	12,461	.74	.59	11.57	138.8	34.60
Logan.....	1,065	12,472	.67	.54	11.80	137.6	34.33
Nicholas.....	309	12,535	.67	.54	11.71	131.0	32.83
Raleigh.....	36	12,422	.62	.50	17.56	124.5	30.92
Webster.....	166	12,827	.72	.56	10.63	144.8	37.14
Baltimore Gas & Electric Co Wagner.....	1,058	12,934	.85	.66	9.24	140.0	36.21
West Virginia.....	1,058	12,934	.85	.66	9.24	140.0	36.21
Preston.....	7	13,069	1.03	.79	9.20	138.5	36.20
Upshur.....	60	13,086	1.09	.84	8.43	135.9	35.57
Webster.....	991	12,924	.84	.65	9.29	140.2	36.25
Basin Electric Power Coop Laramie River.....	7,845	8,401	.39	.47	5.08	45.6	7.67
Wyoming.....	7,845	8,401	.39	.47	5.08	45.6	7.67
Campbell.....	7,845	8,401	.39	.47	5.08	45.6	7.67
Basin Electric Power Coop Antelope Valley.....	5,755	6,556	.69	1.05	8.82	72.6	9.52
North Dakota.....	5,755	6,556	.69	1.05	8.82	72.6	9.52
Mercer.....	5,755	6,556	.69	1.05	8.82	72.6	9.52
Basin Electric Power Coop Leland Olds.....	3,597	6,723	.73	1.08	7.44	78.6	10.53
North Dakota.....	3,536	6,697	.73	1.10	7.44	78.6	10.53
Mercer.....	3,536	6,697	.73	1.10	7.44	78.6	10.53

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Basin Electric Power Coop Leland Olds							
Wyoming.....	61	8,226	0.38	0.46	5.12	77.5	12.75
Campbell.....	61	8,226	.38	.46	5.12	77.5	12.75
Big Rivers Electric Corp D B Wilson							
Kentucky.....	865	11,376	3.54	3.11	13.15	93.0	21.15
Henderson.....	38	11,468	3.25	2.83	11.55	102.0	23.40
McLean.....	184	11,492	3.54	3.08	12.39	93.5	21.49
Ohio.....	259	11,373	3.50	3.07	10.86	94.0	21.39
Webster.....	384	11,314	3.60	3.18	15.22	91.1	20.61
Big Rivers Electric Corp R D Green							
Kentucky.....	904	10,697	3.49	3.27	16.72	89.2	19.08
Butler.....	36	10,134	2.54	2.51	19.26	96.6	19.57
Floyd.....	128	10,592	3.25	3.07	12.59	94.3	19.97
Henderson.....	76	10,418	2.59	2.49	17.32	95.4	19.88
Muhlenberg.....	239	10,202	3.79	3.71	19.65	87.0	17.75
Webster.....	425	11,105	3.65	3.28	15.99	87.2	19.36
Big Rivers Electric Corp Coleman							
Indiana.....	52	11,127	1.44	1.30	10.70	104.9	23.35
Dubois.....	52	11,127	1.44	1.30	10.70	104.9	23.35
Kentucky.....	583	11,344	1.50	1.32	13.32	109.0	24.73
Breathitt.....	5	11,306	1.42	1.25	15.16	106.1	23.99
Daviess.....	26	11,386	1.36	1.19	7.90	105.8	24.09
Floyd.....	133	11,359	1.40	1.23	14.22	108.4	24.63
Knott.....	70	11,445	1.41	1.23	12.66	114.7	26.26
Magoffin.....	84	11,134	1.35	1.22	15.16	107.4	23.92
Martin.....	96	11,566	1.40	1.21	13.95	110.3	25.52
Pike.....	107	11,291	1.40	1.24	14.70	106.5	24.05
Webster.....	61	11,211	2.41	2.15	8.28	109.8	24.62
West Virginia.....	28	12,031	1.47	1.22	10.91	111.9	26.93
Wayne.....	28	12,031	1.47	1.22	10.91	111.9	26.93
Big Rivers Electric Corp Reid-Henderson II							
Kentucky.....	591	11,711	2.90	2.48	10.08	100.6	23.55
Daviess.....	145	11,449	2.49	2.18	8.70	106.2	24.31
Hopkins.....	183	11,732	3.28	2.80	12.06	95.7	22.45
Webster.....	263	11,842	2.86	2.41	9.47	100.9	23.90
Black Hills Corp Neal Simpson II							
Wyoming.....	518	8,046	.66	.82	6.98	45.9	7.39
Campbell.....	518	8,046	.66	.82	6.98	45.9	7.39
Cajun Electric Power Coop Inc Big Cajun No.2							
Colorado.....	52	11,199	.48	.42	9.73	152.6	34.18
Routt.....	52	11,199	.48	.42	9.73	152.6	34.18
Wyoming.....	6,376	8,432	.45	.53	5.38	145.9	24.61
Campbell.....	6,376	8,432	.45	.53	5.38	145.9	24.61
Imported.....	303	9,485	.09	.09	.86	187.6	35.58
Imported Coal.....	303	9,485	.09	.09	.86	187.6	35.58
Cardinal Operating Co Cardinal							
Kentucky.....	557	12,334	.70	.56	10.94	140.9	34.76
Breathitt.....	46	11,968	.90	.76	9.98	120.4	28.82
Floyd.....	17	12,183	.67	.55	12.43	139.1	33.90
Knott.....	222	12,394	.68	.55	10.82	143.3	35.51
Magoffin.....	222	12,394	.68	.55	10.82	143.3	35.51
Pike.....	50	12,184	.67	.55	12.43	139.1	33.90
Ohio.....	409	12,072	3.16	2.62	11.36	103.5	24.99
Belmont.....	408	12,076	3.17	2.62	11.35	103.7	25.04
Jefferson.....	2	11,300	2.70	2.39	13.50	66.3	14.98
West Virginia.....	3,437	12,266	1.68	1.37	12.12	167.4	41.07
Boone.....	62	12,065	.73	.60	12.08	155.4	37.50
Brooke.....	1,005	12,405	3.94	3.17	9.66	194.6	48.28
Kanawha.....	1,590	12,171	.70	.58	13.51	169.0	41.14
Logan.....	322	12,280	.67	.54	12.72	139.9	34.37
Marshall.....	9	12,422	3.86	3.11	10.10	103.0	25.59

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Cardinal Operating Co Cardinal							
West Virginia							
Nicholas	16	12,045	0.89	0.74	13.82	117.8	28.37
Webster	433	12,315	.93	.76	12.28	123.3	30.37
Carolina Power & Light Co Asheville	1,007	12,546	1.01	.81	11.79	143.3	35.96
Kentucky	573	12,489	1.06	.85	11.88	137.5	34.35
Bell	103	12,355	1.23	1.00	12.06	132.0	32.63
Pike	469	12,519	1.02	.82	11.84	138.7	34.74
Virginia	114	12,349	.93	.76	12.56	133.5	32.96
Wise	114	12,349	.93	.76	12.56	133.5	32.96
West Virginia	319	12,719	.96	.75	11.35	156.9	39.92
Boone	279	12,722	.96	.76	11.66	158.8	40.41
Mingo	41	12,703	.94	.74	9.27	143.9	36.57
Carolina Power & Light Co Cape Fear	799	12,288	.95	.77	10.76	147.8	36.31
Kentucky	392	12,263	1.10	.89	10.89	150.7	36.95
Johnson	98	12,017	1.26	1.05	11.98	142.2	34.17
Letcher	8	11,079	1.31	1.18	18.10	146.6	32.48
Martin	91	12,276	1.05	.85	10.73	155.7	38.23
Pike	196	12,425	1.03	.83	10.13	152.6	37.93
West Virginia	407	12,313	.80	.65	10.64	145.0	35.70
Boone	7	10,693	.73	.68	20.30	124.4	26.60
Mingo	247	12,272	.77	.63	11.52	145.8	35.79
Wayne	153	12,454	.86	.69	8.78	144.4	35.97
Carolina Power & Light Co Lee	765	12,348	.94	.76	10.65	152.7	37.72
Kentucky	495	12,333	.97	.79	11.08	155.2	38.27
Johnson	10	12,096	1.26	1.04	11.90	143.1	34.62
Knott	8	12,299	1.33	1.08	11.50	143.4	35.27
Martin	131	12,135	.97	.80	10.67	157.5	38.22
Perry	9	12,612	.69	.55	9.22	146.0	36.82
Pike	337	12,410	.96	.77	11.26	155.2	38.51
West Virginia	270	12,377	.87	.71	9.85	148.3	36.70
Boone	15	12,778	.84	.66	8.91	145.7	37.24
Fayette	3	11,577	1.23	1.06	16.30	120.8	27.97
Mingo	102	12,320	.84	.68	10.68	149.3	36.79
Wayne	150	12,391	.89	.72	9.25	148.4	36.77
Carolina Power & Light Co Mayo	1,926	12,180	.69	.56	11.86	148.9	36.27
Kentucky	43	12,838	.73	.57	6.83	147.5	37.86
Martin	43	12,838	.73	.57	6.83	147.5	37.86
West Virginia	1,883	12,165	.69	.56	11.97	148.9	36.24
Logan	55	12,786	.73	.57	9.91	142.0	36.30
Mingo	1,827	12,146	.68	.56	12.03	149.2	36.24
Carolina Power & Light Co Robinson	415	12,166	1.33	1.09	12.23	149.6	36.41
Kentucky	261	11,891	1.54	1.30	13.49	143.5	34.13
Boyd	16	11,463	1.45	1.26	13.80	154.9	35.51
Knott	118	11,770	1.55	1.32	14.06	144.3	33.98
Perry	55	11,611	1.52	1.31	13.83	142.0	32.97
Pike	72	12,402	1.55	1.25	12.23	141.0	34.98
West Virginia	154	12,632	.96	.76	10.08	159.4	40.27
Boone	146	12,713	.95	.75	9.47	160.8	40.88
Raleigh	8	11,080	1.29	1.16	21.70	128.7	28.52
Carolina Power & Light Co Roxboro	5,828	12,321	.91	.74	11.33	147.7	36.40
Kentucky	2,507	12,167	1.01	.83	11.40	139.9	34.05
Johnson	859	11,920	1.26	1.05	12.71	133.2	31.76
Martin	943	12,251	.98	.80	10.72	141.3	34.62
Pike	704	12,357	.77	.62	10.70	145.9	36.07
West Virginia	3,321	12,438	.83	.67	11.28	153.5	38.18
Boone	1,542	12,654	.94	.74	11.73	165.6	41.92
Logan	45	12,958	.76	.58	9.10	142.7	36.98
Mingo	1,409	12,202	.70	.58	11.35	144.8	35.33
Wayne	319	12,357	.91	.74	9.13	133.6	33.02
Wyoming	6	12,647	.63	.50	8.54	125.1	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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Carolina Power & Light Co Sutton	1,306	12,478	0.99	0.80	10.88	148.6	37.07
Kentucky	816	12,410	1.04	.84	10.50	144.2	35.78
Floyd	9	11,761	.83	.71	12.20	149.1	35.07
Harlan	8	10,126	.70	.69	19.70	145.5	29.47
Knott	500	12,571	1.06	.84	9.54	146.9	36.94
Letcher	192	12,246	1.05	.86	11.54	141.0	34.53
Perry	106	12,179	.97	.80	12.27	136.2	33.17
West Virginia	489	12,591	.91	.72	11.52	155.8	39.23
Boone	444	12,750	.88	.69	10.34	159.0	40.55
Raleigh	45	11,025	1.22	1.10	23.19	118.4	26.10
Carolina Power & Light Co Weatherspoon	324	12,816	.93	.72	9.66	162.7	41.71
Kentucky	62	12,535	1.12	.89	10.22	151.0	37.85
Knott	39	12,628	1.13	.89	9.36	153.3	38.72
Perry	15	12,290	1.15	.94	11.84	143.7	35.31
Pike	8	12,533	.98	.79	11.46	152.9	38.33
West Virginia	261	12,883	.88	.69	9.53	165.4	42.62
Boone	255	12,900	.89	.69	9.52	165.7	42.74
Logan	7	12,253	.78	.64	9.90	155.6	38.13
Cedar Falls City of Streeter	25	12,824	2.73	2.13	8.57	141.7	36.34
Kentucky	2	11,548	2.43	2.10	8.09	151.2	34.92
Union	2	11,548	2.43	2.10	8.09	151.2	34.92
Ohio	11	12,789	4.23	3.31	8.30	139.9	35.78
Belmont	11	12,789	4.23	3.31	8.30	139.9	35.78
Pennsylvania	11	13,195	1.32	1.00	8.90	139.9	36.92
Greene	11	13,195	1.32	1.00	8.90	139.9	36.92
West Virginia	1	11,613	2.41	2.08	8.70	163.6	38.00
Kanawha	1	11,613	2.41	2.08	8.70	163.6	38.00
Central Electric Pwr Coop-MO Chamois	151	10,914	2.71	2.48	8.52	129.3	28.22
Illinois	147	10,984	2.77	2.52	8.64	129.2	28.38
Jackson	1	11,227	2.02	1.80	10.94	128.2	28.78
McDonough	40	10,795	2.96	2.75	7.70	131.6	28.40
Macoupin	4	11,335	2.57	2.27	6.09	134.9	30.58
Randolph	103	11,043	2.71	2.45	9.07	128.1	28.29
Wyoming	4	8,399	.41	.49	4.46	133.8	22.47
Campbell	4	8,399	.41	.49	4.46	133.8	22.47
Central Hudson Gas & Elec Corp Danskammer	990	13,012	.64	.49	7.63	168.0	43.72
Kentucky	377	12,931	.66	.51	8.38	169.1	43.72
Martin	369	12,922	.66	.51	8.41	169.9	43.92
Unknown ²	8	13,398	.68	.51	6.59	126.9	34.00
West Virginia	20	12,838	.67	.52	9.76	169.9	43.62
Nicholas	20	12,838	.67	.52	9.76	169.9	43.62
Imported	594	13,070	.63	.48	7.08	167.3	43.72
Imported Coal	594	13,070	.63	.48	7.08	167.3	43.72
Central Illinois Light Co Duck Creek	1,219	10,738	3.16	2.94	8.48	167.3	35.93
Illinois	1,007	10,638	3.53	3.32	8.62	169.3	36.02
Logan	104	10,396	3.08	2.96	9.67	125.6	26.12
McDonough	10	10,521	3.74	3.55	9.20	137.8	29.00
Macoupin	893	10,667	3.58	3.36	8.49	174.6	37.25
Indiana	212	11,211	1.39	1.24	7.84	158.3	35.50
Knox	212	11,211	1.39	1.24	7.84	158.3	35.50
Central Illinois Light Co Edwards	1,679	10,999	2.07	1.88	7.98	126.9	27.92
Illinois	1,541	10,969	2.19	1.99	7.95	123.8	27.16
Jefferson	505	12,067	.87	.72	5.64	132.2	31.92
Logan	699	10,432	3.05	2.93	9.39	118.7	24.76
Macoupin	337	10,439	2.36	2.26	8.45	119.8	25.02
Indiana	129	11,190	.78	.69	8.43	160.0	35.81
Knox	129	11,190	.78	.69	8.43	160.0	35.81
Kentucky	9	13,322	.76	.57	5.60	169.0	45.03
Pike	9	13,322	.76	.57	5.60	169.0	45.03
Central Illinois Pub Serv Co Grand Tower	334	11,062	3.02	2.73	10.37	98.1	21.70

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Central Illinois Pub Serv Co Grand Tower							
Illinois.....	334	11,062	3.02	2.73	10.37	98.1	21.70
Jackson.....	157	11,243	2.93	2.61	10.74	94.4	21.23
Perry.....	101	10,986	3.07	2.80	9.89	101.5	22.31
Randolph.....	76	10,790	3.12	2.89	10.23	101.3	21.87
Central Illinois Pub Serv Co Hutsonville.....	219	11,163	2.68	2.40	8.67	108.5	24.21
Indiana.....	219	11,163	2.68	2.40	8.67	108.5	24.21
Daviess.....	198	11,172	2.78	2.49	8.48	107.7	24.07
Sullivan.....	21	11,077	1.67	1.50	10.46	115.2	25.53
Central Illinois Pub Serv Co Coffeen.....	2,029	10,238	1.07	1.04	8.59	169.2	34.65
Illinois.....	2,029	10,238	1.07	1.04	8.59	169.2	34.65
Macoupin.....	2,029	10,238	1.07	1.04	8.59	169.2	34.65
Central Illinois Pub Serv Co Newton.....	3,067	9,823	.38	.39	6.33	131.9	25.91
Colorado.....	310	11,174	.52	.47	10.42	141.7	31.66
Routt.....	310	11,174	.52	.47	10.42	141.7	31.66
Indiana.....	1,058	11,054	.60	.54	8.06	159.9	35.34
Knox.....	1,014	11,069	.61	.55	8.01	161.2	35.69
Sullivan.....	44	10,702	.52	.49	9.37	127.2	27.23
Wyoming.....	1,699	8,810	.22	.25	4.50	107.8	18.99
Campbell.....	1,699	8,810	.22	.25	4.50	107.8	18.99
Central Illinois Pub Serv Co Meredosia.....	569	10,833	2.07	1.91	7.34	128.6	27.87
Illinois.....	562	10,840	2.09	1.93	7.24	129.1	27.98
Jackson.....	3	11,200	2.80	2.50	11.00	119.6	26.79
McDonough.....	9	11,350	2.70	2.38	6.80	127.1	28.84
Macoupin.....	344	10,558	1.73	1.64	7.90	135.6	28.63
Schuyler.....	207	11,282	2.65	2.35	6.11	119.2	26.90
Indiana.....	7	10,300	.75	.73	15.00	89.6	18.46
Unknown ²	7	10,300	.75	.73	15.00	89.6	18.46
Central Iowa Power Coop Fair.....	147	11,450	2.87	2.51	9.24	115.1	26.35
Illinois.....	72	11,045	2.70	2.45	9.15	115.0	25.41
Randolph.....	72	11,045	2.70	2.45	9.15	115.0	25.41
Kentucky.....	74	11,842	3.03	2.56	9.33	115.1	27.26
Hopkins.....	74	11,842	3.03	2.56	9.33	115.1	27.26
Central Louisiana Elec Co Inc Dolet Hills.....	3,555	6,760	.92	1.35	14.27	136.8	18.49
Louisiana.....	3,432	6,764	.89	1.32	14.25	136.9	18.53
De Soto.....	2,448	6,687	.97	1.45	14.49	141.2	18.89
Red River.....	984	6,958	.71	1.02	13.64	126.7	17.63
Texas.....	123	6,623	1.55	2.34	14.81	131.8	17.46
Harrison.....	123	6,623	1.55	2.34	14.81	131.8	17.46
Central Louisiana Elec Co Inc Rodemacher.....	1,617	8,571	.51	.60	7.25	139.2	23.86
Wyoming.....	1,617	8,571	.51	.60	7.25	139.2	23.86
Campbell.....	1,617	8,571	.51	.60	7.25	139.2	23.86
Central Operating Co Sporn.....	2,487	12,158	1.50	1.23	12.94	122.5	29.79
West Virginia.....	2,487	12,158	1.50	1.23	12.94	122.5	29.79
Boone.....	9	12,822	.93	.72	7.98	193.4	49.60
Clay.....	462	12,433	1.23	.99	11.69	175.9	43.74
Fayette.....	319	12,207	1.40	1.14	12.71	127.6	31.15
Kanawha.....	496	12,098	1.35	1.12	13.02	115.6	27.97
Lincoln.....	23	11,962	1.31	1.10	11.64	103.2	24.70
Monongalia.....	1,086	12,067	1.73	1.43	13.72	102.1	24.64
Wayne.....	85	11,977	1.31	1.10	11.04	104.2	24.96
Unknown ²	6	12,081	1.67	1.38	13.30	101.7	24.57
Central Power & Light Co Coletto Creek.....	2,499	9,818	.37	.38	5.65	139.4	27.37
Colorado.....	1,349	10,504	.39	.37	6.06	142.0	29.84
Gunnison.....	64	12,432	.62	.50	9.96	145.6	36.21
Moffat.....	1,285	10,407	.37	.36	5.87	141.8	29.52

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Central Power & Light Co Coletto Creek							
Wyoming	1,047	8,662	0.33	0.38	4.92	131.1	22.71
Campbell	1,047	8,662	.33	.38	4.92	131.1	22.71
Imported	103	12,588	.69	.55	7.68	168.5	42.42
Imported Coal	103	12,588	.69	.55	7.68	168.5	42.42
Cincinnati Gas & Electric Co East Bend							
Indiana	40	11,669	2.35	2.02	8.93	101.6	23.72
Pike	13	11,319	3.66	3.23	9.10	108.3	24.52
Unknown ²	27	11,835	1.74	1.47	8.85	98.6	23.34
Kentucky	465	11,712	1.15	.98	12.92	115.5	27.06
Floyd	2	12,114	.69	.57	9.70	120.0	29.07
Knott	21	11,600	1.78	1.54	14.85	108.0	25.05
Knox	3	11,189	.93	.83	13.77	112.3	25.13
Lawrence	3	11,273	.97	.86	14.70	110.3	24.87
Letcher	5	11,861	.69	.58	11.84	124.8	29.60
Magoffin	11	11,424	1.86	1.63	14.20	109.8	25.08
Martin	3	11,472	.83	.72	12.50	112.0	25.70
Perry	276	11,658	1.11	.95	13.41	113.9	26.55
Pike	123	11,933	.92	.77	11.28	120.9	28.85
Webster	11	10,972	2.44	2.22	16.40	129.5	28.42
Unknown ²	6	12,288	2.99	2.43	9.71	91.5	22.48
Ohio	139	11,937	3.43	2.88	9.45	108.6	25.94
Belmont	40	12,497	3.99	3.19	9.19	103.2	25.81
Monroe	30	12,254	4.16	3.40	9.86	95.9	23.51
Vinton	69	11,472	2.79	2.44	9.43	117.9	27.06
Pennsylvania	66	13,085	2.20	1.68	7.50	108.1	28.30
Greene	57	13,047	2.30	1.76	7.59	104.4	27.24
Washington	9	13,316	1.61	1.21	6.93	130.5	34.75
West Virginia	987	12,297	3.16	2.57	11.02	99.4	24.46
Brooke	479	12,441	4.18	3.36	9.73	88.7	22.06
Clay	23	12,418	.65	.52	11.87	134.0	33.29
Fayette	38	11,646	1.58	1.35	15.63	102.0	23.75
Harrison	8	12,778	3.31	2.59	8.00	130.0	33.22
Kanawha	154	12,046	.76	.63	12.73	125.1	30.14
Marshall	198	12,134	3.87	3.19	12.34	94.9	23.04
Monongalia	44	13,287	2.24	1.69	7.02	110.7	29.43
Nicholas	3	11,992	.90	.75	13.54	112.6	27.01
Raleigh	31	11,664	.93	.80	14.29	110.6	25.81
Wayne	8	11,955	.67	.56	10.18	118.8	28.41
Cincinnati Gas & Electric Co Miami Fort							
Illinois	2	12,246	.90	.73	5.20	132.3	32.40
Jefferson	2	12,246	.90	.73	5.20	132.3	32.40
Indiana	13	11,307	1.10	.97	8.40	122.1	27.62
Knox	7	10,965	.70	.64	7.00	140.8	30.88
Unknown ²	5	11,776	1.65	1.40	10.33	98.3	23.15
Kentucky	729	11,716	.95	.81	12.11	115.9	27.16
Breathitt	24	11,237	.91	.81	13.04	110.4	24.80
Floyd	95	11,790	.83	.70	10.00	115.4	27.22
Knott	15	11,485	.92	.80	14.16	118.7	27.26
Knox	8	11,084	.89	.80	13.62	114.1	25.30
Lawrence	22	11,217	.89	.79	13.62	109.2	24.50
Letcher	63	12,209	.70	.57	9.66	118.1	28.83
Magoffin	25	11,760	1.19	1.01	11.89	111.1	26.14
Martin	8	11,531	.78	.68	12.33	117.3	27.05
Perry	269	11,630	1.03	.89	13.33	114.3	26.58
Pike	188	11,836	.89	.76	11.57	119.1	28.18
Webster	9	10,972	2.44	2.22	16.40	130.1	28.55
Unknown ²	2	11,894	1.87	1.57	10.40	97.6	23.22
Ohio	96	11,939	3.54	2.96	9.84	107.0	25.55
Belmont	30	12,513	4.02	3.21	9.25	101.1	25.30
Jefferson	2	12,089	1.69	1.40	11.70	106.8	25.82
Monroe	21	12,223	4.28	3.50	9.84	94.4	23.08
Vinton	43	11,391	2.91	2.56	10.18	118.1	26.92

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Cincinnati Gas & Electric Co Miami Fort							
Pennsylvania	43	13,106	2.14	1.64	7.57	106.5	27.93
Greene	38	13,080	2.21	1.69	7.65	103.8	27.15
Washington	4	13,330	1.61	1.21	6.90	130.0	34.66
West Virginia.....	2,109	12,030	1.06	.88	13.19	124.7	30.00
Boone	22	12,542	.75	.60	10.46	123.6	31.01
Brooke.....	135	12,393	4.21	3.40	9.85	89.0	22.07
Clay	388	12,312	.65	.53	11.86	131.3	32.33
Fayette.....	101	11,670	1.11	.95	15.50	104.1	24.29
Harrison	11	13,056	3.26	2.50	7.40	129.2	33.74
Kanawha	1,151	11,921	.68	.57	14.03	132.3	31.55
Logan	22	11,558	.60	.52	12.66	113.3	26.19
Marshall	46	12,046	3.85	3.20	12.38	95.2	22.93
Mingo.....	7	11,726	.59	.50	13.38	125.0	29.32
Monongalia.....	50	13,244	2.23	1.68	6.77	110.8	29.34
Nicholas	34	11,865	.82	.69	14.09	114.8	27.25
Raleigh.....	116	11,511	.84	.73	15.81	111.0	25.55
Wayne	25	11,952	.66	.55	9.77	118.4	28.31
Cincinnati Gas & Electric Co Beckjord	3,163	12,018	1.29	1.07	11.60	113.4	27.26
Indiana.....	6	11,966	1.52	1.27	8.86	98.0	23.46
Unknown ²	6	11,966	1.52	1.27	8.86	98.0	23.46
Kentucky	1,515	11,777	.96	.82	12.14	115.1	27.10
Breathitt	6	11,125	.98	.88	13.10	108.0	24.02
Floyd.....	57	11,927	.89	.75	11.25	118.3	28.21
Johnson	2	11,500	.59	.51	12.90	123.5	28.40
Knott	77	11,266	.89	.79	14.11	110.4	24.88
Knox	25	10,939	.85	.78	14.65	108.4	23.71
Lawrence.....	19	11,324	.93	.82	13.01	108.9	24.67
Letcher	5	12,021	.70	.59	10.03	124.7	29.97
Magoffin	11	11,808	1.17	.99	11.97	110.4	26.06
Martin	40	11,771	.91	.77	11.06	116.2	27.35
Perry.....	807	11,814	.97	.82	12.51	113.7	26.86
Pike	453	11,864	.94	.80	11.10	118.2	28.05
Webster	9	10,972	2.44	2.22	16.40	131.2	28.79
Unknown ²	3	12,203	2.02	1.65	12.60	98.2	23.96
Ohio.....	85	12,086	3.83	3.17	9.65	101.3	24.49
Belmont.....	29	12,367	3.92	3.17	9.50	101.8	25.18
Jackson.....	5	11,477	3.33	2.90	9.90	113.9	26.14
Monroe.....	35	12,193	4.22	3.46	9.80	92.4	22.53
Vinton	15	11,502	2.93	2.55	9.49	118.0	27.14
Pennsylvania	49	13,079	2.03	1.56	7.68	102.4	26.79
Greene.....	49	13,079	2.03	1.56	7.68	102.4	26.79
West Virginia.....	1,509	12,223	1.44	1.18	11.30	112.9	27.60
Boone	52	12,463	.90	.72	9.65	124.7	31.07
Brooke.....	86	12,423	4.09	3.29	9.70	88.4	21.95
Fayette.....	139	11,985	1.08	.90	13.18	109.0	26.13
Kanawha	814	12,132	.86	.71	11.51	119.9	29.10
Logan	54	10,711	.74	.69	19.17	92.2	19.74
Marshall	104	12,124	3.66	3.02	12.12	95.9	23.25
Monongalia.....	218	13,167	2.14	1.62	6.80	110.4	29.07
Nicholas	4	11,923	.83	.70	13.90	112.7	26.87
Raleigh.....	37	11,284	1.04	.92	17.79	104.7	23.62
Wayne	*	11,894	.68	.57	9.70	118.5	28.19
Cincinnati Gas & Electric Co Zimmer.....	3,712	12,109	3.67	3.03	9.67	103.4	25.04
Kentucky	97	11,910	1.24	1.04	11.17	114.4	27.24
Knott	2	11,241	.87	.77	15.20	109.7	24.66
Letcher	4	12,254	.73	.60	8.00	125.5	30.76
Perry.....	55	11,852	1.22	1.03	11.61	114.1	27.04
Pike	32	11,922	.92	.77	10.92	119.2	28.42
Unknown ²	5	12,405	3.85	3.10	8.90	83.4	20.69
Ohio.....	3,352	12,080	3.79	3.14	9.62	103.2	24.93
Belmont.....	986	12,490	4.00	3.21	9.14	101.9	25.46
Jackson.....	13	11,470	3.20	2.79	9.63	114.0	26.15
Monroe.....	1,403	12,199	4.20	3.45	10.08	94.9	23.15
Vinton	950	11,486	2.97	2.58	9.45	117.6	27.01

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Cincinnati Gas & Electric Co Zimmer							
Pennsylvania	85	13,122	1.94	1.48	7.36	110.1	28.89
Greene	57	13,045	2.10	1.61	7.68	102.3	26.69
Washington	29	13,275	1.62	1.22	6.74	125.2	33.24
West Virginia.....	176	12,277	3.49	2.85	10.81	97.7	23.98
Brooke.....	39	12,457	4.23	3.40	9.64	88.9	22.15
Kanawha	12	12,210	.86	.71	11.34	124.8	30.47
Logan	2	10,334	1.02	.99	19.80	106.0	21.91
Marshall	103	12,041	3.83	3.18	11.88	95.0	22.87
Monongalia	20	13,316	2.19	1.64	6.70	110.1	29.32
Cleveland Electric Illum Co Ashtabula	345	12,630	3.70	2.93	9.02	103.2	26.07
Ohio.....	287	12,517	4.05	3.23	9.30	99.8	24.99
Belmont.....	283	12,522	4.04	3.23	9.27	99.5	24.91
Columbiana.....	4	12,214	4.20	3.44	10.75	122.6	29.94
Pennsylvania	58	13,191	1.96	1.48	7.64	119.1	31.42
Greene.....	58	13,191	1.96	1.48	7.64	119.1	31.42
Cleveland Electric Illum Co Avon Lake.....	1,334	12,660	.89	.70	9.51	140.9	35.68
Kentucky	263	12,582	.89	.71	10.60	123.6	31.09
Carter	31	12,374	.83	.67	10.70	125.7	31.11
Pike	232	12,610	.90	.71	10.59	123.3	31.09
Ohio.....	131	12,460	2.16	1.73	9.76	124.3	30.97
Columbiana.....	131	12,460	2.16	1.73	9.76	124.3	30.97
West Virginia.....	889	12,933	.74	.57	9.40	148.9	38.51
Mingo.....	889	12,933	.74	.57	9.40	148.9	38.51
Wyoming.....	51	8,793	.29	.33	5.17	124.9	21.97
Campbell.....	38	8,800	.28	.32	5.23	127.5	22.44
Converse	13	8,775	.33	.38	5.00	117.5	20.62
Cleveland Electric Illum Co Eastlake	2,573	13,006	2.20	1.69	8.15	140.4	36.52
Ohio.....	661	12,527	3.40	2.71	9.60	107.5	26.93
Belmont.....	401	12,588	4.26	3.39	9.50	98.3	24.74
Columbiana.....	259	12,433	2.06	1.66	9.74	121.9	30.31
Pennsylvania	1,912	13,171	1.78	1.35	7.65	151.2	39.84
Greene.....	1,912	13,171	1.78	1.35	7.65	151.2	39.84
Cleveland Electric Illum Co Lake Shore.....	132	13,016	.71	.55	6.38	154.2	40.13
Kentucky	82	12,913	.71	.55	6.56	148.1	38.25
Martin	82	12,913	.71	.55	6.56	148.1	38.25
Ohio.....	2	12,866	.56	.44	6.10	154.1	39.65
Columbiana.....	2	12,866	.56	.44	6.10	154.1	39.65
West Virginia.....	48	13,197	.71	.54	6.08	164.3	43.38
Mingo.....	48	13,197	.71	.54	6.08	164.3	43.38
Colorado Springs City of Drake.....	771	10,462	.36	.34	6.03	167.5	35.06
Colorado.....	761	10,438	.36	.34	5.90	168.2	35.11
Gunnison.....	10	12,072	.44	.36	8.01	102.8	24.82
Moffat	705	10,365	.35	.34	5.70	174.8	36.24
Routt	45	11,198	.47	.42	8.60	89.3	20.00
New Mexico.....	11	12,211	.53	.43	15.23	126.9	30.99
Colfax	11	12,211	.53	.43	15.23	126.9	30.99
Colorado Springs City of Nixon	818	10,667	.43	.40	8.20	90.6	19.33
Colorado.....	628	11,286	.46	.40	9.08	93.6	21.12
Gunnison.....	9	11,957	.54	.45	8.39	107.1	25.62
Moffat	13	9,943	.33	.33	8.52	79.3	15.77
Routt	605	11,305	.46	.40	9.10	93.6	21.17
Wyoming.....	190	8,619	.35	.40	5.28	77.8	13.41
Campbell.....	177	8,594	.35	.41	5.25	77.9	13.38
Converse	13	8,962	.35	.39	5.62	76.7	13.75
Columbia City of Columbia	28	13,193	1.19	.90	7.50	202.2	53.36
Kentucky	28	13,193	1.19	.90	7.50	202.2	53.36
Bell.....	24	13,170	1.17	.89	7.42	202.6	53.37
Perry.....	5	13,306	1.27	.95	7.90	200.2	53.27
Columbus Southern Power Co Picway.....	158	11,509	3.29	2.86	9.87	103.3	23.77

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Columbus Southern Power Co Picway							
Kentucky	6	12,467	0.89	0.71	9.80	149.6	37.30
Perry	6	12,467	.89	.71	9.80	149.6	37.30
Ohio	152	11,469	3.39	2.96	9.88	101.2	23.20
Perry	152	11,469	3.39	2.96	9.88	101.2	23.20
Columbus Southern Power Co Conesville	4,208	11,925	2.74	2.30	9.23	141.0	33.63
Ohio	4,208	11,925	2.74	2.30	9.23	141.0	33.63
Belmont	262	12,196	3.10	2.54	10.68	95.2	23.23
Coshocton	2,138	11,939	2.70	2.26	7.79	172.0	41.06
Harrison	822	12,391	2.73	2.20	9.09	112.7	27.93
Holmes	34	10,274	3.21	3.13	14.96	84.2	17.30
Jefferson	337	11,887	2.46	2.07	12.00	103.5	24.61
Perry	412	11,206	2.62	2.34	12.26	117.9	26.43
Tuscarawas	204	11,333	3.50	3.09	11.45	106.8	24.22
Commonwealth Edison Co Waukegan	2,536	8,703	.45	.52	5.46	208.5	36.30
Wyoming	2,536	8,703	.45	.52	5.46	208.5	36.30
Campbell	2,508	8,702	.46	.52	5.47	207.3	36.08
Converse	28	8,805	.28	.32	5.00	316.2	55.68
Commonwealth Edison Co Crawford	25	8,644	.20	.23	4.44	131.3	22.69
Wyoming	25	8,644	.20	.23	4.44	131.3	22.69
Campbell	25	8,644	.20	.23	4.44	131.3	22.69
Commonwealth Edison Co Joliet	3,763	8,743	.36	.41	5.60	284.8	49.80
Wyoming	3,763	8,743	.36	.41	5.60	284.8	49.80
Campbell	3,763	8,743	.36	.41	5.60	284.8	49.80
Commonwealth Edison Co Kincaid	361	11,239	1.22	1.08	7.77	178.7	40.18
Illinois	100	10,704	3.51	3.28	8.43	101.5	21.72
Macoupin	100	10,704	3.51	3.28	8.43	101.5	21.72
Utah	261	11,443	.34	.29	7.52	206.4	47.25
Carbon	42	11,769	.43	.36	6.80	134.0	31.54
Emery	219	11,381	.32	.28	7.66	220.8	50.26
Commonwealth Edison Co Powerton	3,570	8,730	.26	.30	4.68	198.6	34.68
Illinois	18	11,609	2.57	2.22	5.45	111.7	25.93
McDonough	18	11,609	2.57	2.22	5.45	111.7	25.93
Montana	237	9,604	.33	.34	3.85	222.0	42.65
Big Horn	237	9,604	.33	.34	3.85	222.0	42.65
Utah	11	11,494	.32	.28	8.20	133.9	30.78
Emery	11	11,494	.32	.28	8.20	133.9	30.78
Wyoming	3,304	8,642	.24	.28	4.72	197.7	34.17
Campbell	3,238	8,639	.24	.28	4.71	195.0	33.69
Converse	66	8,805	.28	.32	5.00	327.8	57.73
Commonwealth Edison Co Will County	5,371	8,931	.30	.34	4.58	206.1	36.81
Montana	1,476	9,644	.34	.35	3.86	219.4	42.31
Big Horn	1,476	9,644	.34	.35	3.86	219.4	42.31
Wyoming	3,895	8,662	.29	.33	4.86	200.5	34.73
Campbell	3,895	8,662	.29	.33	4.86	200.5	34.73
Consumers Power Co Campbell	4,059	11,342	.64	.56	8.82	150.0	34.02
Kentucky	1,348	12,877	.76	.59	8.31	159.7	41.13
Floyd	1,098	12,932	.74	.57	8.17	159.6	41.27
Knott	100	12,496	.90	.72	9.41	156.5	39.12
Letcher	44	12,480	.95	.76	9.65	155.3	38.76
Pike	105	12,833	.75	.59	8.15	166.2	42.67
West Virginia	1,473	12,135	.73	.60	12.17	172.1	41.78
Boone	1,463	12,135	.73	.60	12.17	172.2	41.78
Logan	11	12,130	.65	.54	12.60	168.6	40.90
Wyoming	1,238	8,727	.40	.45	5.38	97.6	17.03
Campbell	1,010	8,709	.42	.49	5.35	97.2	16.93
Converse	228	8,807	.27	.31	5.51	99.2	17.47
Consumers Power Co Cobb	1,162	9,903	.66	.66	6.58	121.1	23.99

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Consumers Power Co Cobb							
Kentucky.....	40	12,945	0.77	0.59	8.20	166.8	43.19
Floyd.....	40	12,945	.77	.59	8.20	166.8	43.19
Montana.....	515	9,045	.51	.56	6.72	114.6	20.74
Big Horn.....	515	9,045	.51	.56	6.72	114.6	20.74
Pennsylvania.....	202	13,219	1.49	1.13	7.27	140.7	37.20
Greene.....	51	13,201	1.64	1.24	7.70	133.8	35.33
Washington.....	152	13,224	1.44	1.09	7.13	143.0	37.82
West Virginia.....	35	12,179	.92	.76	12.13	158.7	38.65
Boone.....	10	11,928	.75	.63	12.70	175.9	41.96
Nicholas.....	25	12,279	.99	.81	11.90	152.0	37.33
Wyoming.....	369	8,737	.37	.43	5.31	101.9	17.80
Campbell.....	369	8,737	.37	.43	5.31	101.9	17.80
Consumers Power Co Karn	952	12,187	.84	.69	11.48	152.6	37.19
Kentucky.....	266	12,260	.92	.75	10.87	146.2	35.84
Floyd.....	138	12,031	.90	.74	11.15	146.1	35.15
Knott.....	63	12,528	.97	.77	10.59	146.0	36.57
Martin.....	11	12,193	.94	.77	10.60	145.0	35.36
Pike.....	54	12,545	.92	.73	10.52	146.8	36.84
West Virginia.....	686	12,159	.81	.67	11.72	155.1	37.72
Boone.....	459	12,029	.81	.67	11.75	157.5	37.88
Clay.....	38	12,454	.88	.71	11.85	152.6	38.01
Nicholas.....	189	12,415	.80	.64	11.60	150.1	37.27
Consumers Power Co Weadock	1,370	10,127	.57	.56	7.95	127.0	25.72
Kentucky.....	74	12,276	.94	.77	10.40	148.3	36.41
Floyd.....	41	12,302	1.01	.82	10.90	150.0	36.91
Knott.....	21	12,465	.91	.73	8.26	146.9	36.62
Pike.....	12	11,856	.78	.66	12.40	144.5	34.26
Montana.....	240	9,052	.49	.55	6.74	121.5	21.99
Big Horn.....	240	9,052	.49	.55	6.74	121.5	21.99
West Virginia.....	448	12,212	.84	.69	11.70	153.7	37.54
Boone.....	237	12,028	.84	.70	11.77	156.2	37.58
Clay.....	54	12,496	.87	.70	11.75	152.6	38.14
Nicholas.....	147	12,388	.83	.67	11.76	150.6	37.31
Wayne.....	10	12,444	.84	.68	8.90	147.1	36.61
Wyoming.....	608	8,754	.35	.41	5.38	98.2	17.20
Campbell.....	492	8,741	.38	.43	5.40	97.7	17.08
Converse.....	117	8,808	.25	.28	5.30	100.5	17.70
Consumers Power Co Whiting	851	11,940	.83	.70	11.01	146.6	35.00
Kentucky.....	296	12,254	.95	.77	11.18	141.5	34.68
Floyd.....	181	12,139	.94	.78	11.26	140.4	34.08
Knott.....	21	12,557	.95	.75	9.59	144.1	36.18
Martin.....	32	12,313	.96	.78	11.18	143.7	35.39
Pike.....	63	12,456	.96	.77	11.48	142.7	35.54
West Virginia.....	503	12,082	.83	.68	11.50	152.6	36.87
Boone.....	435	12,022	.81	.67	11.88	154.3	37.11
Wayne.....	68	12,466	.92	.74	9.09	141.7	35.33
Wyoming.....	52	8,777	.25	.28	5.35	106.9	18.76
Campbell.....	13	8,800	.30	.34	5.00	101.2	17.81
Converse.....	39	8,769	.23	.26	5.47	108.8	19.08
Coop Power Assn Coal Creek	7,046	6,246	.68	1.09	11.05	81.1	10.13
North Dakota.....	7,046	6,246	.68	1.09	11.05	81.1	10.13
Mclean.....	7,046	6,246	.68	1.09	11.05	81.1	10.13
Dairyland Power Coop Alma-Madgett	1,673	9,252	.31	.34	4.86	104.6	19.35
Illinois.....	265	11,788	.97	.83	7.16	134.5	31.70
Jefferson.....	265	11,788	.97	.83	7.16	134.5	31.70
Wyoming.....	1,408	8,775	.19	.22	4.42	97.0	17.03
Campbell.....	1,408	8,775	.19	.22	4.42	97.0	17.03
Dairyland Power Coop Genoa No.3	881	10,683	.58	.55	4.99	125.8	26.87

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Dairyland Power Coop Genoa No.3							
Illinois	500	12,030	0.89	0.74	5.57	133.5	32.11
Jefferson	500	12,030	.89	.74	5.57	133.5	32.11
Wyoming	381	8,913	.18	.20	4.22	112.1	19.99
Campbell	381	8,913	.18	.20	4.22	112.1	19.99
Dayton Power & Light Co Stuart							
.....	5,962	11,527	.84	.73	14.52	123.9	28.56
Kentucky	2,822	11,592	.85	.74	13.86	127.4	29.54
Breathitt	75	11,070	.87	.79	15.98	100.1	22.16
Floyd	136	10,959	.89	.81	16.09	102.3	22.42
Knott	27	10,983	.89	.81	16.60	100.8	22.13
Lawrence	184	10,999	.87	.79	15.10	102.8	22.62
Magoffin	395	11,053	.82	.74	15.24	102.4	22.65
Martin	257	11,749	.80	.68	14.48	141.2	33.18
Perry	4	12,010	.96	.80	10.90	102.3	24.57
Pike	1,744	11,835	.86	.73	13.03	136.4	32.29
West Virginia	3,141	11,469	.83	.72	15.12	120.7	27.68
Boone	730	11,462	.76	.67	15.24	105.5	24.18
Kanawha	952	11,642	.79	.67	15.67	139.7	32.52
Logan	76	11,303	.75	.67	17.06	101.4	22.93
Wayne	1,382	11,362	.90	.79	14.57	116.4	26.46
Dayton Power & Light Co Hutchings							
.....	369	12,539	.83	.66	11.83	137.6	34.49
West Virginia	369	12,539	.83	.66	11.83	137.6	34.49
Clay	321	12,538	.84	.67	11.76	137.3	34.43
Nicholas	48	12,547	.79	.63	12.30	139.3	34.96
Dayton Power & Light Co Killen							
.....	2,034	11,898	.63	.53	13.70	127.3	30.29
Kentucky	885	11,652	.63	.54	13.37	113.2	26.39
Floyd	273	11,578	.62	.54	13.30	113.5	26.28
Lawrence	5	11,520	.67	.58	12.30	122.7	28.27
Martin	98	12,136	.62	.51	13.68	119.0	28.88
Morgan	13	11,627	.66	.57	14.30	122.3	28.44
Pike	497	11,599	.63	.54	13.34	111.6	25.89
West Virginia	1,149	12,088	.63	.52	13.94	137.7	33.29
Kanawha	451	12,073	.63	.52	14.47	118.8	28.68
Logan	698	12,098	.63	.52	13.60	149.9	36.27
Delmarva Power & Light Co Edgemoor							
.....	538	12,670	.73	.58	10.27	158.9	40.27
Kentucky	30	12,889	.79	.61	6.59	162.8	41.98
Martin	30	12,889	.79	.61	6.59	162.8	41.98
Pennsylvania	9	10,689	.66	.61	10.49	150.8	32.25
Elk	9	10,689	.66	.61	10.49	150.8	32.25
Virginia	9	13,159	.83	.63	8.30	158.1	41.61
Wise	9	13,159	.83	.63	8.30	158.1	41.61
West Virginia	490	12,686	.73	.57	10.52	158.8	40.29
Nicholas	222	12,539	.68	.54	11.49	161.4	40.48
Webster	261	12,830	.76	.60	9.59	157.5	40.41
Wyoming	7	12,052	.84	.70	14.10	125.9	30.35
Delmarva Power & Light Co Indian River							
.....	1,206	13,092	1.09	.83	8.34	155.2	40.63
Kentucky	63	12,812	.63	.49	6.51	176.6	45.26
Martin	63	12,812	.63	.49	6.51	176.6	45.26
Maryland	170	13,222	1.47	1.11	8.91	146.3	38.69
Garrett	170	13,222	1.47	1.11	8.91	146.3	38.69
Pennsylvania	513	13,233	1.35	1.02	7.03	142.2	37.63
Indiana	3	12,127	1.41	1.16	10.90	134.9	32.72
Washington	510	13,240	1.35	1.02	7.00	142.2	37.67
Virginia	137	13,672	.79	.58	6.00	177.8	48.61
Wise	137	13,672	.79	.58	6.00	177.8	48.61
West Virginia	324	12,609	.68	.54	11.45	167.1	42.15
Mingo	31	13,140	.68	.52	7.55	176.2	46.29
Nicholas	120	12,558	.65	.52	11.39	169.3	42.51
Webster	172	12,549	.71	.56	12.20	163.9	41.14
Deseret Generation & Tran Coop Bonanza							
.....	1,723	10,149	.43	.43	10.24	193.2	39.22

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Deseret Generation & Tran Coop Bonanza							
Colorado.....	1,723	10,149	0.43	0.43	10.24	193.2	39.22
Rio Blanco.....	1,723	10,149	.43	.43	10.24	193.2	39.22
Detroit Edison Co Belle River							
Montana.....	4,467	9,471	.35	.37	4.22	149.9	28.39
Big Horn.....	4,467	9,471	.35	.37	4.22	149.9	28.39
Detroit Edison Co Harbor Beach							
Kentucky.....	151	13,352	.81	.61	7.25	151.8	40.55
Pike.....	108	13,476	.86	.63	6.67	151.0	40.69
West Virginia.....	108	13,476	.86	.63	6.67	151.0	40.69
Mingo.....	43	13,039	.70	.54	8.71	154.2	40.20
Mingo.....	43	13,039	.70	.54	8.71	154.2	40.20
Detroit Edison Co Marysville							
Kentucky.....	83	13,155	.75	.57	8.24	149.0	39.19
Pike.....	37	13,256	.81	.61	7.80	146.0	38.70
West Virginia.....	37	13,256	.81	.61	7.80	146.0	38.70
Mingo.....	46	13,074	.70	.54	8.60	151.4	39.59
Mingo.....	46	13,074	.70	.54	8.60	151.4	39.59
Detroit Edison Co Monroe							
Colorado.....	9,119	10,797	.76	.71	6.09	115.1	24.85
Unknown ²	17	12,395	.55	.44	8.50	146.2	36.24
Unknown ²	17	12,395	.55	.44	8.50	146.2	36.24
Illinois.....	25	11,900	1.29	1.08	6.80	152.3	36.25
Saline.....	16	11,900	1.29	1.08	6.80	152.3	36.25
Unknown ²	9	11,900	1.29	1.08	6.80	152.3	36.25
Kentucky.....	1,237	12,959	.98	.76	7.93	136.6	35.41
Martin.....	12	12,676	.96	.76	8.50	141.3	35.82
Pike.....	1,225	12,962	.98	.76	7.93	136.6	35.40
Pennsylvania.....	2,479	13,131	1.50	1.14	6.94	122.4	32.14
Greene.....	2,089	13,109	1.52	1.16	6.93	120.9	31.69
Washington.....	390	13,245	1.36	1.03	6.94	130.4	34.54
Utah.....	37	12,395	.55	.44	8.50	140.8	34.91
Emery.....	37	12,395	.55	.44	8.50	140.8	34.91
West Virginia.....	508	12,949	1.16	.90	8.21	136.6	35.37
Boone.....	64	12,960	.83	.64	8.03	136.4	35.35
Mingo.....	444	12,948	1.21	.93	8.24	136.6	35.37
Wyoming.....	4,816	8,790	.29	.33	4.93	97.3	17.10
Campbell.....	4,803	8,790	.29	.33	4.93	97.3	17.10
Converse.....	13	8,853	.32	.36	5.30	95.0	16.82
Detroit Edison Co River Rouge							
Kentucky.....	1,583	10,734	.62	.57	6.49	117.9	25.31
Pike.....	246	13,008	.84	.64	8.64	140.3	36.51
Pennsylvania.....	246	13,008	.84	.64	8.64	140.3	36.51
Greene.....	198	13,127	1.44	1.10	6.78	122.7	32.21
Washington.....	186	13,119	1.45	1.10	6.77	121.9	31.99
West Virginia.....	12	13,238	1.34	1.01	6.90	134.9	35.72
Boone.....	287	13,020	.73	.56	8.44	141.6	36.87
Mingo.....	32	13,023	.81	.62	7.86	139.0	36.21
Mingo.....	255	13,020	.72	.55	8.52	141.9	36.96
Wyoming.....	852	8,752	.32	.37	5.15	94.7	16.57
Campbell.....	852	8,752	.32	.37	5.15	94.7	16.57
Detroit Edison Co St Clair							
Montana.....	5,353	9,950	.71	.72	4.65	145.1	28.88
Big Horn.....	4,648	9,471	.35	.37	4.22	149.4	28.31
West Virginia.....	4,648	9,471	.35	.37	4.22	149.4	28.31
Harrison.....	705	13,110	3.12	2.38	7.49	124.6	32.67
Marion.....	625	13,077	3.23	2.47	7.55	124.3	32.51
Monongalia.....	42	13,337	2.41	1.81	7.55	122.4	32.64
Monongalia.....	38	13,408	2.06	1.54	6.40	131.7	35.32
Detroit Edison Co Trenton Channel							
Kentucky.....	2,055	10,573	.72	.68	5.37	113.7	24.05
Pike.....	11	12,830	.98	.76	9.70	139.9	35.90
Pennsylvania.....	11	12,830	.98	.76	9.70	139.9	35.90
Greene.....	820	13,128	1.51	1.15	6.82	128.7	33.80
Washington.....	797	13,123	1.51	1.15	6.83	128.6	33.74
Washington.....	23	13,294	1.39	1.05	6.60	134.8	35.84

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Detroit Edison Co Trenton Channel							
Wyoming	1,224	8,841	0.19	0.22	4.36	98.5	17.41
Campbell	1,212	8,842	.19	.22	4.34	98.5	17.42
Converse	12	8,767	.32	.37	5.90	97.4	17.08
Duke Power Co Allen	1,759	12,532	.78	.62	10.08	141.1	35.37
Kentucky	351	12,515	.87	.70	9.80	139.8	34.99
Martin	164	12,557	.77	.61	9.35	144.2	36.21
Pike	187	12,479	.96	.77	10.20	135.9	33.93
Virginia	115	12,811	1.02	.79	10.53	137.8	35.31
Russell	8	12,577	.69	.55	11.40	142.6	35.87
Wise	107	12,829	1.04	.81	10.46	137.4	35.26
West Virginia	1,293	12,512	.73	.58	10.12	141.8	35.48
Boone	11	12,771	.95	.74	11.10	140.4	35.86
Mingo	1,154	12,527	.71	.57	10.26	142.7	35.75
Wayne	128	12,356	.88	.71	8.73	133.6	33.00
Duke Power Co Belews Creek	5,991	12,463	.81	.65	9.81	149.2	37.18
Kentucky	3,984	12,372	.82	.67	9.96	154.2	38.17
Martin	3,829	12,370	.81	.66	9.93	154.9	38.32
Pike	155	12,436	1.07	.86	10.83	138.0	34.32
Virginia	10	13,026	.61	.47	9.00	142.2	37.05
Tazewell	10	13,026	.61	.47	9.00	142.2	37.05
West Virginia	1,997	12,640	.78	.62	9.49	139.3	35.21
Boone	45	12,770	.95	.74	11.55	138.0	35.25
Mingo	1,580	12,687	.75	.59	9.56	140.3	35.61
Wayne	372	12,425	.88	.71	8.98	134.9	33.52
Duke Power Co Buck	670	11,905	1.00	.84	13.15	141.3	33.63
Kentucky	602	11,879	1.00	.84	13.10	141.3	33.57
Martin	444	12,098	1.03	.85	11.28	145.7	35.25
Pike	158	11,266	.90	.80	18.20	128.1	28.87
Virginia	39	12,305	1.16	.95	12.24	141.9	34.92
Buchanan	3	12,358	.96	.78	10.60	151.6	37.47
Wise	36	12,301	1.18	.96	12.37	141.1	34.70
West Virginia	29	11,894	.91	.76	15.58	139.5	33.18
Fayette	14	12,755	1.15	.90	12.70	143.4	36.59
Mingo	15	11,089	.67	.61	18.27	135.2	29.99
Duke Power Co Cliffside	1,589	12,650	.91	.72	8.39	134.3	33.97
Kentucky	1,482	12,655	.92	.73	8.35	134.0	33.92
Floyd	459	12,508	1.00	.80	9.01	134.5	33.65
Harlan	233	12,651	1.01	.80	8.53	131.7	33.32
Knott	30	12,524	1.02	.82	9.53	141.0	35.33
Knox	9	12,868	1.32	1.03	8.80	138.2	35.57
Laurel	19	13,113	1.03	.79	7.30	131.8	34.57
Perry	673	12,765	.83	.65	7.70	134.1	34.23
Pike	59	12,440	.91	.73	9.43	135.5	33.72
Virginia	18	12,618	.76	.61	11.25	132.3	33.39
Dickenson	18	12,618	.76	.61	11.25	132.3	33.39
West Virginia	89	12,574	.77	.61	8.64	138.5	34.82
Boone	50	12,875	.77	.60	8.14	135.7	34.95
Lincoln	7	12,033	.65	.54	10.00	156.8	37.74
Raleigh	23	12,076	.72	.59	8.16	138.3	33.40
Wyoming	9	12,594	.96	.76	11.60	140.7	35.44
Duke Power Co Dan River	392	12,426	1.04	.84	10.45	138.9	34.53
Kentucky	327	12,380	1.04	.84	10.47	138.8	34.38
Harlan	4	12,855	.88	.68	9.55	144.6	37.18
Johnson	21	12,063	1.22	1.01	11.10	115.8	27.94
Martin	180	12,235	1.02	.84	11.12	140.8	34.44
Pike	122	12,633	1.05	.83	9.44	139.7	35.30
Virginia	34	12,682	1.11	.88	10.84	137.6	34.90
Lee	9	12,869	1.16	.90	7.19	132.1	34.01
Wise	25	12,615	1.10	.87	12.15	139.6	35.21

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Duke Power Co Dan River							
West Virginia.....	31	12,630	0.92	0.73	9.85	141.5	35.74
Fayette.....	3	13,463	1.21	.90	10.00	139.4	37.53
Mingo.....	8	12,792	.84	.66	10.40	134.2	34.33
Wayne.....	20	12,441	.91	.73	9.60	144.8	36.03
Duke Power Co Lee.....							
Kentucky.....	331	12,602	.94	.75	8.59	143.1	36.07
Floyd.....	154	12,537	1.02	.82	8.74	142.1	35.62
Harlan.....	45	12,672	.91	.72	8.90	141.8	35.93
Perry.....	63	12,762	.84	.66	7.83	144.1	36.78
Pike.....	69	12,556	.88	.70	8.74	145.3	36.50
West Virginia.....	104	12,316	.72	.58	10.85	154.8	38.14
Boone.....	88	12,243	.68	.55	10.77	155.3	38.03
Wyoming.....	16	12,719	.94	.74	11.30	152.3	38.74
Duke Power Co Marshall.....							
Kentucky.....	3,380	12,295	1.01	.82	10.44	130.7	32.15
Clay.....	8	11,891	1.12	.94	13.00	133.5	31.75
Floyd.....	488	12,524	.94	.75	9.07	128.8	32.25
Harlan.....	380	12,681	1.00	.79	8.74	126.5	32.09
Johnson.....	11	12,238	1.26	1.03	10.70	121.6	29.76
Knott.....	20	12,413	.99	.80	10.25	136.0	33.76
Knox.....	48	12,799	1.28	1.00	8.97	123.2	31.53
Laurel.....	18	12,932	1.03	.80	8.00	122.4	31.66
Letcher.....	16	12,475	.92	.74	9.71	131.6	32.84
Martin.....	1,774	12,075	1.03	.85	11.44	132.4	31.98
Perry.....	56	12,055	.92	.76	11.71	132.3	31.90
Pike.....	561	12,486	.97	.78	9.71	130.9	32.68
Virginia.....	23	12,893	1.13	.88	9.99	138.1	35.62
Dickenson.....	7	13,374	1.05	.79	9.40	137.5	36.78
Wise.....	16	12,683	1.16	.92	10.25	138.4	35.11
West Virginia.....	1,271	12,572	.91	.72	9.54	133.7	33.62
Boone.....	301	12,936	.89	.69	9.29	132.6	34.30
Lincoln.....	8	12,060	.66	.55	9.50	157.8	38.06
Mingo.....	604	12,498	.94	.75	9.77	133.8	33.46
Wayne.....	290	12,366	.88	.71	8.80	133.1	32.91
Wyoming.....	68	12,555	.94	.75	11.87	137.8	34.60
Duke Power Co Riverbend.....							
Kentucky.....	707	12,371	1.00	.81	9.94	136.4	33.74
Clay.....	17	11,830	1.02	.86	12.70	133.5	31.59
Floyd.....	161	12,458	1.01	.81	9.25	136.0	33.89
Harlan.....	116	12,620	.99	.79	8.72	134.7	33.99
Knott.....	116	12,132	1.13	.93	11.66	139.6	33.87
Letcher.....	53	12,309	.96	.78	10.31	132.5	32.62
Perry.....	10	12,372	.78	.63	9.50	137.0	33.90
Pike.....	234	12,359	.94	.76	9.90	137.0	33.86
Virginia.....	55	12,373	.98	.79	9.76	136.0	33.65
Wise.....	55	12,373	.98	.79	9.76	136.0	33.65
West Virginia.....	27	13,273	.90	.68	8.27	143.6	38.11
Boone.....	18	13,507	.87	.65	6.80	143.6	38.80
Wyoming.....	9	12,805	.95	.74	11.20	143.4	36.72
Duquesne Light Co Cheswick.....							
Pennsylvania.....	906	12,975	1.94	1.49	8.81	114.0	29.57
Fayette.....	435	12,741	1.71	1.35	9.48	129.6	33.02
Greene.....	446	13,187	2.16	1.64	8.23	99.5	26.24
Washington.....	25	13,250	1.80	1.36	7.67	108.7	28.81
West Virginia.....	64	13,072	1.33	1.02	7.70	125.8	32.88
Fayette.....	64	13,072	1.33	1.02	7.70	125.8	32.88
Duquesne Light Co Elrama.....							
Pennsylvania.....	856	12,195	2.23	1.83	13.31	234.5	57.21
Greene.....	832	12,200	2.23	1.83	13.27	238.4	58.17
Washington.....	24	12,014	2.41	2.00	14.43	98.9	23.76

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Duquesne Light Co Elrama							
West Virginia.....	265	12,781	1.50	1.17	9.05	121.8	31.13
Fayette.....	209	12,899	1.32	1.02	7.94	125.5	32.37
Monongalia.....	56	12,342	2.15	1.75	13.17	107.4	26.50
East Kentucky Power Coop Inc Cooper.....	783	12,344	1.18	.96	9.66	113.3	27.96
Kentucky.....	783	12,344	1.18	.96	9.66	113.3	27.96
Breathitt.....	9	11,511	1.31	1.14	13.07	104.1	23.96
Clay.....	275	12,263	1.10	.90	10.04	112.2	27.52
Harlan.....	7	12,750	1.14	.89	10.20	127.6	32.53
Knott.....	3	13,015	.89	.68	8.50	120.1	31.26
Laurel.....	5	11,736	1.32	1.13	11.32	105.1	24.68
Leslie.....	151	12,076	1.07	.88	10.63	117.4	28.35
Letcher.....	19	13,127	1.07	.82	6.74	129.9	34.10
Owsley.....	10	12,718	1.24	.97	7.47	115.0	29.25
Perry.....	158	12,429	1.33	1.07	9.25	110.5	27.46
Pulaski.....	59	12,532	1.34	1.07	9.95	109.7	27.51
Whitley.....	87	12,630	1.29	1.02	7.76	112.8	28.49
East Kentucky Power Coop Inc Dale.....	466	12,331	.85	.69	9.48	112.7	27.80
Kentucky.....	466	12,331	.85	.69	9.48	112.7	27.80
Breathitt.....	43	11,585	.94	.81	11.95	107.1	24.81
Clay.....	61	12,287	.95	.77	10.24	112.8	27.71
Floyd.....	6	11,806	1.08	.91	13.40	110.3	26.04
Letcher.....	41	12,603	.78	.62	7.99	114.0	28.74
Perry.....	312	12,419	.83	.67	9.11	113.2	28.12
Pike.....	3	12,063	.85	.70	10.32	125.6	30.31
East Kentucky Power Coop Inc Spurlock.....	2,503	12,322	.73	.59	10.95	114.4	28.20
Kentucky.....	1,495	12,449	.74	.59	10.50	114.3	28.46
Boyd.....	333	12,093	.70	.58	10.74	115.8	28.00
Breathitt.....	324	12,336	.64	.52	13.31	112.7	27.80
Floyd.....	184	12,361	.80	.65	9.91	112.0	27.68
Greenup.....	234	12,369	.85	.69	12.23	110.1	27.24
Knott.....	19	12,674	.71	.56	7.59	114.9	29.13
Letcher.....	36	12,683	.65	.51	8.32	113.1	28.69
Perry.....	211	13,304	.74	.56	5.64	119.9	31.89
Pike.....	154	12,432	.80	.64	9.64	115.6	28.75
West Virginia.....	1,008	12,133	.71	.59	11.63	114.6	27.82
Boone.....	50	12,386	.66	.53	10.47	125.5	31.10
Fayette.....	358	12,125	.81	.67	13.05	109.1	26.46
Kanawha.....	136	12,315	.71	.57	12.25	118.5	29.18
Mingo.....	124	12,096	.63	.52	10.64	115.2	27.86
Raleigh.....	7	12,028	.79	.65	14.06	112.1	26.97
Wayne.....	333	12,046	.65	.54	10.35	117.2	28.24
Electric Energy Inc Joppa.....	5,191	8,737	.22	.25	4.48	83.3	14.55
Wyoming.....	5,191	8,737	.22	.25	4.48	83.3	14.55
Campbell.....	4,619	8,724	.22	.25	4.39	83.0	14.49
Converse.....	572	8,844	.24	.27	5.17	85.0	15.04
Empire District Electric Co Riverton.....	318	9,654	.93	.96	6.05	116.6	22.52
Oklahoma.....	75	12,400	3.35	2.71	11.56	118.7	29.43
Craig.....	75	12,400	3.35	2.71	11.56	118.7	29.43
Wyoming.....	243	8,807	.18	.21	4.35	115.8	20.39
Campbell.....	243	8,807	.18	.21	4.35	115.8	20.39
Empire District Electric Co Asbury.....	893	9,061	.45	.50	5.13	103.2	18.71
Kentucky.....	15	11,500	3.25	2.83	13.00	169.3	38.94
Webster.....	15	11,500	3.25	2.83	13.00	169.3	38.94
Missouri.....	68	11,752	3.04	2.59	12.27	116.1	27.29
Barton.....	68	11,752	3.04	2.59	12.27	116.1	27.29
Wyoming.....	811	8,792	.19	.21	4.39	100.2	17.63
Campbell.....	811	8,792	.19	.21	4.39	100.2	17.63
Florida Power Corp Crystal River.....	3,534	12,642	.92	.73	8.76	173.5	43.87

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Florida Power Corp Crystal River							
Kentucky	2,739	12,728	0.97	0.76	8.46	164.4	41.84
Bell	207	12,831	1.08	.84	7.90	165.4	42.46
Floyd	495	12,274	1.04	.84	10.16	164.3	40.34
Harlan	29	12,588	.87	.69	9.19	161.6	40.68
Knott	435	12,585	1.02	.81	8.69	162.8	40.98
Letcher	715	12,991	1.12	.86	7.08	161.9	42.06
Perry	9	12,429	1.01	.81	10.42	174.3	43.32
Pike	850	12,827	.76	.59	8.60	167.0	42.84
Virginia	776	12,343	.73	.59	9.79	206.8	51.05
Lee	776	12,343	.73	.59	9.79	206.8	51.05
West Virginia	19	12,503	.70	.56	10.34	175.9	43.98
Boone	19	12,503	.70	.56	10.34	175.9	43.98
Florida Power Corp IMT Transfer³							
Kentucky	2,059	12,526	.69	.55	9.65	172.2	43.13
Floyd	839	12,611	.67	.53	9.14	169.3	42.70
Knott	69	12,318	.67	.54	9.49	185.5	45.70
Letcher	361	12,548	.66	.53	9.74	168.3	42.25
Perry	92	12,623	.69	.55	9.18	164.3	41.49
Pike	18	13,267	.75	.57	5.43	160.0	42.45
West Virginia	299	12,714	.69	.54	8.56	168.8	42.93
Boone	1,140	12,432	.70	.56	10.30	174.7	43.44
Clay	641	12,575	.72	.57	10.47	172.0	43.25
Kanawha	9	12,360	.67	.54	13.69	157.2	38.87
Mingo	29	11,877	.75	.63	13.13	139.1	33.04
Raleigh	68	12,225	.63	.52	10.48	158.5	38.75
Wayne	7	11,415	.85	.74	13.31	139.4	31.83
Imported	386	12,292	.66	.54	9.65	185.8	45.67
Imported Coal	80	12,968	.73	.56	5.67	166.9	43.30
Fremont City of Wright	236	8,618	.28	.33	4.63	92.3	15.91
Wyoming	236	8,618	.28	.33	4.63	92.3	15.91
Campbell	225	8,521	.27	.32	4.59	89.9	15.32
Carbon	10	10,795	.60	.56	5.49	135.0	29.15
Gainesville Regional Util Deerhaven							
Kentucky	639	13,098	.66	.50	7.23	165.8	43.43
Pike	639	13,098	.66	.50	7.23	165.8	43.43
Georgia Power Co Arkwright							
Kentucky	130	12,743	1.87	1.47	9.09	161.7	41.21
Bell	77	12,565	1.97	1.57	9.91	157.4	39.55
Virginia	77	12,565	1.97	1.57	9.91	157.4	39.55
Wise	8	12,804	1.67	1.30	11.14	161.4	41.33
West Virginia	8	12,804	1.67	1.30	11.14	161.4	41.33
Mingo	45	13,033	1.72	1.32	7.32	168.8	43.99
Georgia Power Co Atkinson-Mcdonoug	1,368	12,782	1.02	.80	8.72	136.7	34.96
Kentucky	1,243	12,903	1.05	.81	7.96	137.2	35.39
Harlan	368	12,646	1.11	.88	8.36	135.7	34.33
Leslie	31	12,746	.98	.77	7.90	135.7	34.59
Perry	843	13,020	1.03	.79	7.79	137.8	35.89
West Virginia	126	11,593	.76	.65	16.18	132.2	30.66
Boone	126	11,593	.76	.65	16.18	132.2	30.66
Georgia Power Co Bowen							
Kentucky	7,620	12,317	.91	.73	11.25	141.5	34.85
Harlan	5,688	12,575	.96	.77	9.37	144.0	36.22
Leslie	476	12,482	1.16	.93	9.40	135.4	33.81
Letcher	395	12,710	.99	.78	8.49	138.8	35.29
Perry	51	12,186	.91	.75	10.46	133.6	32.56
West Virginia	4,765	12,578	.94	.75	9.43	145.4	36.58
Boone	1,932	11,557	.74	.64	16.76	133.3	30.80
Kanawha	1,677	11,691	.72	.61	15.83	135.0	31.57
Logan	71	10,753	1.17	1.08	24.78	119.7	25.73
Mingo	124	10,486	.59	.56	21.53	122.0	25.59
Raleigh	41	10,951	1.13	1.03	23.59	119.0	26.06
Boone	20	11,026	1.10	1.00	23.13	119.1	26.26

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Georgia Power Co Hammond	1,300	12,733	0.90	0.71	10.07	151.1	38.49
Alabama.....	9	12,306	1.87	1.52	12.04	142.5	35.07
Fayette.....	9	12,306	1.87	1.52	12.04	142.5	35.07
Kentucky.....	786	12,663	.91	.72	10.07	149.6	37.89
Bell.....	75	12,779	1.73	1.35	9.23	142.5	36.42
Harlan.....	518	12,756	.72	.57	10.90	146.8	37.45
Johnson.....	41	12,059	1.38	1.14	11.80	155.2	37.42
Martin.....	55	12,092	1.33	1.10	11.71	150.4	36.38
Pike.....	96	12,657	.85	.67	10.90	167.8	42.47
Tennessee.....	48	12,921	.65	.50	10.61	155.0	40.06
Cumberland.....	48	12,921	.65	.50	10.61	155.0	40.06
Virginia.....	448	12,837	.88	.69	10.03	153.4	39.39
Lee.....	20	12,283	.70	.57	9.94	153.8	37.78
Wise.....	428	12,863	.89	.69	10.04	153.4	39.47
West Virginia.....	8	13,081	1.48	1.13	7.34	154.0	40.29
Mingo.....	8	13,081	1.48	1.13	7.34	154.0	40.29
Georgia Power Co Harlee Branch	3,263	12,381	1.28	1.04	10.41	157.3	38.94
Kentucky.....	3,263	12,381	1.28	1.04	10.41	157.3	38.94
Breathitt.....	511	12,212	1.66	1.36	10.18	150.2	36.69
Harlan.....	92	11,998	1.25	1.05	10.89	149.4	35.86
Knott.....	897	12,572	1.05	.84	10.15	173.4	43.61
Leslie.....	60	12,698	1.07	.84	8.36	155.7	39.53
Perry.....	1,185	12,245	1.42	1.16	10.58	152.1	37.24
Pike.....	518	12,561	1.03	.82	10.86	149.1	37.46
Georgia Power Co Mitchell	216	12,777	1.31	1.02	8.92	171.4	43.80
Kentucky.....	216	12,777	1.31	1.02	8.92	171.4	43.80
Harlan.....	216	12,777	1.31	1.02	8.92	171.4	43.80
Georgia Power Co Scherer	10,688	10,432	.49	.47	7.01	172.1	35.90
Kentucky.....	1,774	13,056	.65	.50	7.53	162.3	42.37
Daviess.....	37	13,270	.65	.49	6.26	172.7	45.83
Harlan.....	1,199	13,187	.66	.50	7.15	162.3	42.81
Martin.....	206	12,944	.63	.49	6.52	163.1	42.22
Pike.....	331	12,625	.66	.52	9.64	160.4	40.49
Virginia.....	320	13,123	.72	.55	8.45	158.8	41.68
Lee.....	116	12,866	.70	.54	8.90	160.0	41.17
Wise.....	204	13,269	.73	.55	8.19	158.1	41.97
West Virginia.....	2,436	12,410	.63	.51	10.73	220.4	54.70
Mingo.....	2,356	12,398	.63	.51	10.79	222.5	55.18
Wyoming.....	6,158	8,754	.37	.42	5.31	150.2	26.30
Campbell.....	4,642	8,729	.41	.47	5.30	150.6	26.30
Converse.....	1,517	8,829	.25	.28	5.35	149.0	26.32
Georgia Power Co Wansley	4,116	12,339	1.08	.87	10.43	147.0	36.29
Illinois.....	677	12,034	1.36	1.13	7.20	137.7	33.14
Saline.....	677	12,034	1.36	1.13	7.20	137.7	33.14
Kentucky.....	1,897	11,962	1.15	.96	12.31	146.0	34.93
Bell.....	275	12,719	1.60	1.26	8.75	148.7	37.83
Breathitt.....	44	11,280	.87	.77	18.40	135.6	30.59
Harlan.....	117	12,801	.97	.76	8.48	160.9	41.19
Leslie.....	33	12,780	1.27	.99	8.91	145.2	37.11
Martin.....	47	12,057	1.26	1.04	11.88	156.2	37.68
Perry.....	1,335	11,746	1.08	.92	13.06	144.1	33.84
Pike.....	46	11,537	.87	.76	18.75	143.7	33.15
Virginia.....	1,531	12,937	.87	.67	9.52	151.7	39.25
Lee.....	18	13,476	.64	.47	5.31	167.2	45.06
Wise.....	1,514	12,931	.87	.67	9.57	151.5	39.18
West Virginia.....	10	12,721	.77	.61	11.05	208.5	53.05
Mingo.....	10	12,721	.77	.61	11.05	208.5	53.05
Georgia Power Co Yates	2,201	12,843	1.03	.80	9.66	153.2	39.36
Alabama.....	63	12,371	1.88	1.52	12.23	142.4	35.24
Fayette.....	63	12,371	1.88	1.52	12.23	142.4	35.24

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Georgia Power Co Yates							
Kentucky.....	670	12,860	0.79	0.61	9.25	152.6	39.26
Bell.....	53	13,187	1.14	.87	7.03	152.3	40.16
Harlan.....	550	12,857	.74	.57	9.24	152.0	39.08
Martin.....	11	12,141	1.35	1.11	12.09	154.6	37.54
Pike.....	56	12,720	.89	.70	10.91	159.2	40.51
Virginia.....	1,139	12,840	.97	.75	10.24	152.6	39.18
Lee.....	85	12,029	1.05	.88	12.38	145.4	34.99
Wise.....	1,054	12,905	.96	.74	10.07	153.1	39.52
West Virginia.....	330	12,906	1.60	1.24	8.01	158.6	40.95
Mingo.....	330	12,906	1.60	1.24	8.01	158.6	40.95
Grand Haven City of J B Simms	178	11,644	2.38	2.05	9.92	139.4	32.47
Indiana.....	120	11,025	2.33	2.11	10.54	138.2	30.47
Greene.....	120	11,025	2.33	2.11	10.54	138.2	30.47
Pennsylvania.....	30	12,508	2.73	2.19	10.25	141.8	35.48
Indiana.....	30	12,508	2.73	2.19	10.25	141.8	35.48
West Virginia.....	28	13,347	2.23	1.67	6.95	141.3	37.71
Monongalia.....	28	13,347	2.23	1.67	6.95	141.3	37.71
Grand Island City of Platte	406	8,721	.45	.52	5.49	67.6	11.80
Wyoming.....	406	8,721	.45	.52	5.49	67.6	11.80
Campbell.....	406	8,721	.45	.52	5.49	67.6	11.80
Grand River Dam Authority GRDA 1	3,895	8,513	.41	.48	5.09	87.4	14.89
Oklahoma.....	87	12,893	3.62	2.81	9.54	101.9	26.27
Rogers.....	87	12,893	3.62	2.81	9.54	101.9	26.27
Wyoming.....	3,808	8,413	.33	.40	4.99	86.9	14.63
Campbell.....	3,808	8,413	.33	.40	4.99	86.9	14.63
Gulf Power Co Crist	2,472	12,203	1.02	.84	6.93	156.9	38.30
Alabama.....	115	12,796	.83	.65	9.43	158.5	40.55
Tuscaloosa.....	92	13,060	.73	.56	8.30	152.0	39.71
Walker.....	23	11,717	1.21	1.03	14.04	187.7	43.98
Illinois.....	1,704	12,043	1.12	.93	6.78	157.1	37.83
Jefferson.....	173	12,036	.93	.78	6.33	153.4	36.94
Saline.....	1,531	12,044	1.14	.95	6.83	157.5	37.94
Kentucky.....	83	12,924	1.24	.96	7.73	168.8	43.64
Letcher.....	83	12,924	1.24	.96	7.73	168.8	43.64
West Virginia.....	137	12,595	.93	.74	10.42	169.3	42.64
Boone.....	85	12,743	.90	.70	10.65	140.6	35.82
Fayette.....	20	11,451	1.16	1.01	13.10	211.9	48.53
Kanawha.....	32	12,932	.86	.67	8.10	220.7	57.08
Imported.....	434	12,415	.69	.56	5.64	149.6	37.13
Imported Coal.....	434	12,415	.69	.56	5.64	149.6	37.13
Gulf Power Co Scholtz	138	12,833	1.33	1.04	8.59	160.7	41.25
Kentucky.....	138	12,833	1.33	1.04	8.59	160.7	41.25
Harlan.....	61	12,908	1.44	1.12	9.30	166.8	43.06
Perry.....	70	12,793	1.08	.85	8.00	154.9	39.64
Webster.....	7	12,571	2.90	2.31	8.10	165.0	41.48
Gulf Power Co Smith	1,007	12,054	2.59	2.15	9.44	142.6	34.37
Alabama.....	14	11,636	2.94	2.53	14.81	174.4	40.58
Walker.....	14	11,636	2.94	2.53	14.81	174.4	40.58
Illinois.....	313	12,484	2.38	1.91	8.76	143.7	35.88
Gallatin.....	239	12,653	2.68	2.12	9.28	140.7	35.59
Saline.....	58	11,994	1.02	.85	6.92	147.4	35.37
White.....	16	11,738	2.93	2.50	7.60	177.9	41.77
Kentucky.....	680	11,864	2.67	2.25	9.64	141.4	33.55
Hopkins.....	29	12,075	2.70	2.23	9.28	136.9	33.07
Union.....	517	11,812	2.74	2.32	9.00	141.7	33.47
Webster.....	134	12,020	2.43	2.02	12.20	141.2	33.94
Gulf States Utilities Co Nelson	2,141	8,691	.44	.51	5.35	137.8	23.96

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Gulf States Utilities Co Nelson							
Wyoming.....	2,141	8,691	0.44	0.51	5.35	137.8	23.96
Campbell.....	2,141	8,691	.44	.51	5.35	137.8	23.96
Hamilton City of Hamilton	165	12,303	.73	.59	10.10	140.7	34.62
Kentucky.....	144	12,317	.72	.59	10.06	139.9	34.46
Letcher.....	144	12,317	.72	.59	10.06	139.9	34.46
West Virginia.....	21	12,207	.73	.60	10.40	146.4	35.75
Mingo.....	21	12,207	.73	.60	10.40	146.4	35.75
Hastings City of Hastings	323	8,611	.31	.36	4.84	63.6	10.95
Wyoming.....	323	8,611	.31	.36	4.84	63.6	10.95
Campbell.....	323	8,611	.31	.36	4.84	63.6	10.95
Holland City of James De Young	176	12,886	.80	.62	6.83	171.2	44.12
Colorado.....	37	12,295	.59	.48	9.70	160.0	39.34
Gunnison.....	37	12,295	.59	.48	9.70	160.0	39.34
Kentucky.....	139	13,043	.86	.66	6.07	174.0	45.39
Pike.....	139	13,043	.86	.66	6.07	174.0	45.39
Holyoke Water Power Co Mount Tom	380	13,130	1.04	.79	7.20	178.9	46.98
Kentucky.....	186	13,030	.63	.48	7.29	196.5	51.20
Pike.....	186	13,030	.63	.48	7.29	196.5	51.20
Pennsylvania.....	183	13,243	1.48	1.11	7.08	160.9	42.61
Greene.....	81	13,225	1.65	1.24	7.56	161.1	42.62
Washington.....	101	13,258	1.34	1.01	6.70	160.7	42.61
West Virginia.....	11	12,962	.80	.62	7.56	185.0	47.96
Boone.....	10	12,880	.82	.64	7.70	187.3	48.24
Wyoming.....	2	13,456	.68	.51	6.75	171.9	46.28
Hoosier Energy R E C Inc Merom	3,236	10,945	3.20	2.92	11.04	123.4	27.00
Indiana.....	3,236	10,945	3.20	2.92	11.04	123.4	27.00
Clay.....	1,364	10,803	3.53	3.26	11.70	142.1	30.70
Daviess.....	273	11,070	2.76	2.49	10.02	99.9	22.11
Greene.....	19	11,215	2.76	2.46	10.04	84.8	19.01
Knox.....	998	10,965	2.44	2.22	10.20	118.3	25.94
Pike.....	522	11,206	4.23	3.78	11.62	101.7	22.80
Sullivan.....	58	10,884	1.59	1.46	9.71	100.0	21.76
Unknown ²	1	11,163	2.63	2.36	10.30	86.4	19.29
Hoosier Energy R E C Inc Frank E Ratts	739	11,093	1.27	1.14	8.37	133.7	29.66
Indiana.....	739	11,093	1.27	1.14	8.37	133.7	29.66
Pike.....	739	11,093	1.27	1.14	8.37	133.7	29.66
Houston Lighting & Power Co Limestone	8,708	6,467	.98	1.52	17.42	91.3	11.81
Texas.....	8,708	6,467	.98	1.52	17.42	91.3	11.81
Freestone.....	815	6,535	.99	1.51	17.88	92.8	12.13
Leon.....	7,893	6,460	.98	1.52	17.37	91.1	11.77
Houston Lighting & Power Co Parish	11,433	8,617	.39	.46	5.06	176.3	30.39
Wyoming.....	11,433	8,617	.39	.46	5.06	176.3	30.39
Campbell.....	11,433	8,617	.39	.46	5.06	176.3	30.39
IES Utilities Co 6th St	176	10,092	.44	.44	4.65	144.2	29.10
Illinois.....	36	12,008	.91	.76	6.78	159.2	38.22
Franklin.....	3	12,024	.87	.72	6.53	160.5	38.60
Jefferson.....	33	12,006	.91	.76	6.81	159.0	38.19
Montana.....	141	9,605	.32	.34	4.11	139.4	26.78
Big Horn.....	141	9,605	.32	.34	4.11	139.4	26.78
IES Utilities Co Burlington	669	8,457	.46	.54	5.29	84.2	14.25
Colorado.....	6	11,431	.54	.47	11.66	142.5	32.58
Mesa.....	6	11,431	.54	.47	11.66	142.5	32.58
Wyoming.....	663	8,430	.46	.54	5.23	83.5	14.08
Campbell.....	663	8,430	.46	.54	5.23	83.5	14.08
IES Utilities Co Ottumwa	3,136	8,355	.34	.41	6.04	89.9	15.02

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
IES Utilities Co Ottumwa							
Wyoming.....	3,136	8,355	0.34	0.41	6.04	89.9	15.02
Campbell.....	3,136	8,355	.34	.41	6.04	89.9	15.02
IES Utilities Co Prairie Creek 1-4.....	857	8,385	.34	.40	5.92	85.1	14.26
Wyoming.....	857	8,385	.34	.40	5.92	85.1	14.26
Campbell.....	857	8,385	.34	.40	5.92	85.1	14.26
IES Utilities Co Sutherland.....	526	8,343	.33	.40	5.37	71.7	11.97
Wyoming.....	526	8,343	.33	.40	5.37	71.7	11.97
Campbell.....	526	8,343	.33	.40	5.37	71.7	11.97
Illinois Power Co Baldwin.....	4,964	10,742	2.85	2.65	10.22	105.8	22.72
Illinois.....	4,964	10,742	2.85	2.65	10.22	105.8	22.72
Perry.....	1,564	10,922	2.87	2.63	10.08	108.5	23.70
Washington.....	3,400	10,660	2.84	2.66	10.29	104.5	22.27
Illinois Power Co Havana.....	916	11,631	.52	.45	9.56	136.7	31.80
Colorado.....	358	11,862	.50	.43	9.30	139.5	33.09
Gunnison.....	358	11,862	.50	.43	9.30	139.5	33.09
Utah.....	546	11,510	.53	.46	9.78	134.9	31.05
Carbon.....	546	11,510	.53	.46	9.78	134.9	31.05
Wyoming.....	12	10,279	.55	.54	7.50	134.6	27.67
Carbon.....	12	10,279	.55	.54	7.50	134.6	27.67
Illinois Power Co Hennepin.....	735	10,835	2.83	2.62	9.94	114.3	24.77
Illinois.....	646	10,748	2.83	2.63	9.94	114.5	24.61
Macoupin.....	21	10,804	3.20	2.96	8.12	137.8	29.77
Washington.....	625	10,746	2.81	2.62	10.00	113.7	24.44
Kentucky.....	89	11,465	2.89	2.52	9.20	113.0	25.92
Union.....	89	11,465	2.89	2.52	9.20	113.0	25.92
Illinois Power Co Vermilion.....	487	10,425	1.48	1.42	10.51	110.7	23.07
Illinois.....	487	10,425	1.48	1.42	10.51	110.7	23.07
Vermilion.....	487	10,425	1.48	1.42	10.51	110.7	23.07
Illinois Power Co Wood River.....	952	11,864	.70	.59	7.85	135.0	32.04
Colorado.....	536	11,963	.53	.44	9.05	138.5	33.14
Gunnison.....	536	11,963	.53	.44	9.05	138.5	33.14
Illinois.....	416	11,736	.93	.80	6.31	130.4	30.62
Jefferson.....	297	12,346	.84	.68	5.52	132.5	32.73
Macoupin.....	119	10,219	1.18	1.16	8.29	124.1	25.37
Independence City of Blue Valley.....	104	10,801	3.35	3.10	16.61	117.9	25.48
Missouri.....	104	10,801	3.35	3.10	16.61	117.9	25.48
Barton.....	1	11,413	3.56	3.12	12.80	117.0	26.71
Bates.....	104	10,797	3.35	3.10	16.63	118.0	25.47
Indiana Michigan Power Co Tanners Creek.....	1,942	12,302	1.13	.92	9.58	121.2	29.83
Kentucky.....	788	12,895	1.56	1.21	6.91	125.1	32.27
Floyd.....	6	11,760	.65	.55	10.66	119.9	28.21
Hopkins.....	165	11,666	2.24	1.92	9.37	110.6	25.81
Knott.....	6	13,384	1.69	1.26	5.60	125.1	33.49
Letcher.....	556	13,298	1.45	1.09	5.88	129.2	34.35
Pike.....	54	12,569	.67	.53	9.78	122.6	30.82
Ohio.....	119	10,946	2.57	2.35	11.59	107.4	23.51
Gallia.....	39	10,946	2.57	2.35	11.59	107.4	23.51
Jackson.....	39	10,946	2.57	2.35	11.59	107.4	23.51
Vinton.....	41	10,946	2.57	2.35	11.59	107.4	23.51
West Virginia.....	1,035	12,007	.63	.53	11.38	119.5	28.71
Boone.....	306	12,044	.64	.53	12.02	117.0	28.18
Fayette.....	13	12,279	.61	.50	10.90	174.2	42.78
Kanawha.....	93	12,167	.63	.52	12.87	124.1	30.20
Lincoln.....	73	11,926	.63	.53	10.37	116.2	27.72
Logan.....	119	12,053	.63	.52	12.86	115.3	27.81
Mingo.....	244	11,962	.63	.53	10.40	121.7	29.13
Wayne.....	186	11,909	.64	.53	10.38	118.4	28.21

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Indiana Michigan Power Co Rockport	9,948	8,919	0.30	0.34	5.11	106.9	19.06
Illinois	18	10,736	2.87	2.67	9.97	107.0	22.98
Washington	18	10,736	2.87	2.67	9.97	107.0	22.98
Kentucky	448	12,157	.86	.71	10.67	115.3	28.03
Floyd	190	12,108	.88	.73	10.39	116.6	28.23
Pike	258	12,193	.85	.70	10.87	114.3	27.88
West Virginia.....	236	12,208	.70	.58	11.35	124.8	30.46
Boone.....	68	12,329	.75	.61	11.92	124.1	30.59
Clay.....	23	12,218	.91	.75	13.23	120.6	29.47
Fayette.....	7	12,238	.90	.74	12.97	121.1	29.63
Kanawha	4	12,237	.90	.74	12.98	121.1	29.64
Lincoln.....	5	12,175	.64	.53	9.70	121.8	29.66
Logan.....	30	12,111	.62	.51	13.40	123.0	29.79
Mingo.....	69	12,153	.62	.51	9.86	127.7	31.03
Wayne.....	31	12,144	.65	.53	9.71	126.5	30.72
Wyoming.....	9,245	8,674	.26	.30	4.67	105.6	18.33
Campbell.....	9,245	8,674	.26	.30	4.67	105.6	18.33
Indiana-Kentucky Electric Corp Clifty Creek	4,486	10,092	.95	.94	6.44	118.8	23.99
Ohio.....	744	10,899	4.08	3.74	13.35	109.0	23.76
Jackson.....	744	10,899	4.08	3.74	13.35	109.0	23.76
Virginia.....	813	13,814	.72	.52	5.63	159.6	44.10
Buchanan.....	813	13,814	.72	.52	5.63	159.6	44.10
Wyoming.....	2,929	8,854	.22	.25	4.90	104.3	18.46
Campbell.....	1,267	8,912	.19	.21	4.29	111.7	19.91
Converse.....	1,662	8,811	.25	.28	5.38	98.5	17.36
Indianapolis Power & Light Co Stout	1,552	11,071	1.17	1.06	8.05	111.1	24.60
Indiana.....	1,552	11,071	1.17	1.06	8.05	111.1	24.60
Greene.....	661	11,337	1.32	1.16	7.42	116.4	26.39
Sullivan.....	128	10,843	1.12	1.03	9.00	102.3	22.18
Vigo.....	763	10,878	1.05	.97	8.44	107.8	23.46
Indianapolis Power & Light Co Petersburg	5,512	11,079	2.82	2.54	9.54	94.3	20.89
Indiana.....	5,512	11,079	2.82	2.54	9.54	94.3	20.89
Daviess.....	1,297	11,315	2.51	2.22	8.66	92.1	20.83
Gibson.....	1,143	11,105	2.74	2.47	9.81	89.6	19.91
Greene.....	60	11,092	2.67	2.41	9.86	86.0	19.07
Knox.....	746	11,125	2.49	2.23	9.39	83.2	18.50
Warrick.....	2,266	10,916	3.14	2.88	9.94	101.9	22.24
Indianapolis Power & Light Co Pritchard	625	10,971	1.08	.99	8.18	105.2	23.09
Indiana.....	625	10,971	1.08	.99	8.18	105.2	23.09
Greene.....	187	11,408	1.30	1.14	6.61	112.1	25.59
Sullivan.....	341	10,764	.98	.91	8.94	101.3	21.82
Vigo.....	97	10,855	1.04	.96	8.56	104.7	22.73
Interstate Power Co Dubuque	232	10,938	2.77	2.53	9.76	105.5	23.08
Illinois.....	232	10,938	2.77	2.53	9.76	105.5	23.08
Washington.....	232	10,938	2.77	2.53	9.76	105.5	23.08
Interstate Power Co Lansing	1,123	8,834	.60	.68	5.71	151.4	26.74
Illinois.....	20	10,249	2.16	2.10	8.13	113.9	23.35
Perry.....	20	10,249	2.16	2.10	8.13	113.9	23.35
Kentucky.....	119	11,968	2.10	1.75	8.89	119.7	28.66
Hopkins.....	42	11,210	2.11	1.88	8.17	117.9	26.44
Union.....	77	12,379	2.09	1.69	9.29	120.6	29.86
Wyoming.....	984	8,426	.38	.46	5.28	157.7	26.58
Campbell.....	984	8,426	.38	.46	5.28	157.7	26.58
Interstate Power Co Kapp	666	10,859	.48	.44	8.28	132.1	28.69
Colorado.....	489	11,732	.49	.41	9.30	132.5	31.08
Mesa.....	489	11,732	.49	.41	9.30	132.5	31.08
Wyoming.....	177	8,446	.45	.53	5.43	130.7	22.08
Campbell.....	177	8,446	.45	.53	5.43	130.7	22.08
Iowa-Illinois Gas&Electric Co Riverside	485	8,594	.22	.25	3.85	81.8	14.06

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Iowa-Illinois Gas&Electric Co Riverside							
Wyoming	485	8,594	0.22	0.25	3.85	81.8	14.06
Campbell.....	485	8,594	.22	.25	3.85	81.8	14.06
Iowa-Illinois Gas&Electric Co Louisa	2,869	8,383	.33	.40	5.71	89.1	14.94
Wyoming	2,869	8,383	.33	.40	5.71	89.1	14.94
Campbell.....	2,869	8,383	.33	.40	5.71	89.1	14.94
Jacksonville Electric Auth St. Johns River.....							
Kentucky.....	3,287	12,279	.99	.81	8.38	158.0	38.81
Bell.....	1,689	12,710	1.31	1.03	9.80	169.4	43.06
Harlan	241	12,849	1.06	.82	8.29	161.2	41.42
Pike.....	1,126	12,820	1.30	1.01	9.11	173.7	44.54
West Virginia.....	322	12,221	1.52	1.24	13.37	160.2	39.16
Logan.....	10	12,169	.86	.71	13.20	149.6	36.41
Imported.....	10	12,169	.86	.71	13.20	149.6	36.41
Imported Coal.....	1,588	11,821	.66	.56	6.84	145.1	34.30
Imported Coal.....	1,588	11,821	.66	.56	6.84	145.1	34.30
Jamestown City of Samuel A Carlson							
Pennsylvania.....	96	12,674	2.15	1.69	10.02	130.2	33.00
Armstrong.....	96	12,674	2.15	1.69	10.02	130.2	33.00
Butler.....	18	12,774	2.13	1.66	9.32	130.3	33.29
Clarion	40	12,788	2.32	1.82	9.60	130.1	33.27
Elk.....	8	12,623	1.56	1.24	9.48	128.4	32.41
Jefferson.....	27	12,482	2.10	1.68	11.07	130.9	32.69
Jefferson.....	3	12,410	1.93	1.55	11.84	128.3	31.85
Kansas City City of Quindaro							
Illinois.....	482	10,372	.58	.56	6.82	125.0	25.94
Williamson.....	30	11,831	2.56	2.16	10.30	128.0	30.29
Wyoming.....	30	11,831	2.56	2.16	10.30	128.0	30.29
Campbell.....	452	10,275	.45	.43	6.59	124.8	25.64
Carbon.....	43	8,808	.34	.39	5.00	92.4	16.28
Carbon.....	408	10,431	.46	.44	6.76	127.7	26.64
Kansas City City of Nearman.....							
Wyoming.....	1,180	8,284	.37	.44	5.30	77.4	12.83
Campbell.....	1,180	8,284	.37	.44	5.30	77.4	12.83
Kansas City Power & Light Co Hawthorne							
Wyoming.....	1,143	8,724	.33	.38	5.19	66.9	11.67
Campbell.....	1,143	8,724	.33	.38	5.19	66.9	11.67
Kansas City Power & Light Co Iatan							
Wyoming.....	2,789	8,716	.35	.41	5.42	77.0	13.43
Campbell.....	2,789	8,716	.35	.41	5.42	77.0	13.43
Kansas City Power & Light Co La Cygne.....							
Kansas.....	5,033	8,664	.61	.71	6.14	66.5	11.52
Crawford.....	353	10,931	4.08	3.73	19.33	102.1	22.33
Linn.....	8	11,421	3.45	3.02	15.39	114.2	26.08
Missouri.....	345	10,919	4.09	3.75	19.43	101.8	22.24
Bates.....	21	10,532	3.21	3.05	15.68	126.5	26.65
Wyoming.....	21	10,532	3.21	3.05	15.68	126.5	26.65
Campbell.....	4,659	8,484	.34	.40	5.10	62.6	10.63
Campbell.....	4,659	8,484	.34	.40	5.10	62.6	10.63
Kansas City Power & Light Co Montrose							
Wyoming.....	1,786	8,710	.34	.39	5.30	88.4	15.39
Campbell.....	1,786	8,710	.34	.39	5.30	88.4	15.39
Kansas Power & Light Co Lawrence.....							
Colorado.....	793	10,743	.43	.40	7.87	115.2	24.75
Routt.....	574	11,276	.47	.42	9.32	122.1	27.54
Montana.....	574	11,276	.47	.42	9.32	122.1	27.54
Big Horn.....	219	9,344	.34	.36	4.06	93.3	17.43
Big Horn.....	219	9,344	.34	.36	4.06	93.3	17.43
Kansas Power & Light Co Jeffrey Energy							
	8,566	8,387	.38	.45	4.69	111.9	18.78

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Kansas Power & Light Co Jeffrey Energy							
Wyoming	8,566	8,387	0.38	0.45	4.69	111.9	18.78
Campbell	8,566	8,387	.38	.45	4.69	111.9	18.78
Kansas Power & Light Co Tecumseh							
Colorado	471	10,626	.43	.41	7.67	114.0	24.23
Routt	312	11,282	.47	.42	9.49	122.6	27.66
Montana	312	11,282	.47	.42	9.49	122.6	27.66
Big Horn	159	9,339	.34	.37	4.10	93.6	17.49
Big Horn	159	9,339	.34	.37	4.10	93.6	17.49
Kentucky Power Co Big Sandy							
Kentucky	2,936	12,231	1.18	.96	9.98	108.4	26.52
Breathitt	2,935	12,231	1.18	.96	9.98	108.4	26.52
Floyd	427	12,244	1.17	.95	9.71	103.7	25.39
Johnson	786	12,262	1.20	.98	10.41	116.3	28.51
Knott	697	12,131	1.32	1.09	10.04	105.0	25.47
Lawrence	125	12,258	.93	.75	11.18	111.4	27.30
Magoffin	177	12,312	.99	.81	8.64	101.6	25.01
Martin	2	12,638	.74	.59	8.60	123.0	31.09
Perry	148	12,118	1.26	1.04	10.01	109.4	26.53
Pike	434	12,262	1.11	.91	9.67	104.1	25.54
West Virginia	140	12,416	.96	.77	9.66	113.6	28.22
Mingo	2	12,068	.59	.49	10.90	112.5	27.15
Mingo	2	12,068	.59	.49	10.90	112.5	27.15
Kentucky Utilities Co Green River							
Kentucky	571	11,682	2.37	2.03	9.13	104.0	24.30
Hopkins	571	11,682	2.37	2.03	9.13	104.0	24.30
Muhlenberg	246	11,887	2.15	1.81	9.43	102.0	24.25
Muhlenberg	325	11,527	2.53	2.19	8.90	105.5	24.33
Kentucky Utilities Co Brown							
Kentucky	1,515	12,053	1.32	1.09	11.95	112.2	27.05
Breathitt	1,507	12,047	1.31	1.09	11.97	112.2	27.02
Perry	16	12,186	1.50	1.23	11.30	122.3	29.81
Pennsylvania	1,491	12,045	1.31	1.09	11.98	112.0	26.99
Greene	9	13,178	2.61	1.98	7.50	119.1	31.39
Greene	9	13,178	2.61	1.98	7.50	119.1	31.39
Kentucky Utilities Co Ghent							
Indiana	5,149	12,080	1.44	1.19	11.47	112.6	27.21
Pike	299	11,277	3.26	2.89	9.18	99.3	22.40
Kentucky	299	11,277	3.26	2.89	9.18	99.3	22.40
Daviess	1,322	12,011	1.16	.96	10.92	116.7	28.04
Floyd	233	11,184	3.19	2.86	8.82	99.7	22.30
Knott	656	12,202	.66	.54	11.60	121.3	29.61
Letcher	292	12,199	.69	.57	11.24	123.2	30.05
Magoffin	55	12,452	.69	.56	8.13	113.0	28.14
Perry	60	11,965	.67	.56	11.78	114.7	27.45
Pike	5	11,990	2.43	2.03	9.82	86.9	20.84
West Virginia	21	11,623	2.98	2.56	13.90	76.6	17.81
Boone	3,528	12,174	1.39	1.14	11.86	112.1	27.30
Fayette	155	12,456	.69	.55	11.87	117.2	29.20
Kanawha	284	12,488	.66	.53	12.35	120.8	30.18
Logan	1,212	12,189	.66	.55	12.70	120.3	29.33
Marshall	472	11,816	.65	.55	13.80	123.5	29.18
Mingo	907	12,259	3.50	2.86	10.37	88.2	21.62
Wayne	265	12,062	.66	.55	10.83	115.5	27.86
Wayne	233	12,057	.66	.55	10.00	122.9	29.63
Kentucky Utilities Co Tyrone							
Kentucky	103	12,930	.78	.60	7.76	120.1	31.05
Letcher	103	12,930	.78	.60	7.76	120.1	31.05
Perry	75	12,933	.79	.61	7.61	117.7	30.45
Perry	28	12,924	.74	.57	8.17	126.4	32.66
Lakeland City of Plant 3-Mcintosh							
Kentucky	628	12,872	1.25	.97	8.53	175.9	45.29
Harlan	585	12,867	1.30	1.01	8.73	175.9	45.27
Knott	447	12,835	1.30	1.02	9.03	175.7	45.09
Knott	138	12,972	1.28	.99	7.76	176.8	45.87

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Lakeland City of Plant 3-Mcintosh							
Imported.....	43	12,941	0.62	0.48	5.70	175.7	45.48
Imported Coal.....	43	12,941	.62	.48	5.70	175.7	45.48
Lansing City of Eckert.....							
	749	10,335	.52	.50	6.72	150.0	31.01
Kentucky.....	303	12,525	.84	.67	8.13	164.6	41.24
Pike.....	303	12,525	.84	.67	8.13	164.6	41.24
West Virginia.....	5	12,400	.82	.66	13.07	164.9	40.90
Nicholas.....	5	12,400	.82	.66	13.07	164.9	40.90
Wyoming.....	442	8,810	.29	.33	5.69	135.5	23.88
Campbell.....	25	8,728	.26	.30	6.20	136.8	23.88
Converse.....	417	8,815	.29	.33	5.66	135.4	23.88
Lansing City of Erickson.....							
	367	12,309	.86	.70	8.88	162.2	39.93
Kentucky.....	317	12,537	.91	.73	8.87	163.4	40.97
Pike.....	317	12,537	.91	.73	8.87	163.4	40.97
West Virginia.....	28	12,525	.78	.62	11.84	163.3	40.91
Nicholas.....	28	12,525	.78	.62	11.84	163.3	40.91
Wyoming.....	22	8,768	.20	.23	5.30	136.1	23.87
Campbell.....	12	8,725	.22	.25	5.40	136.8	23.87
Converse.....	10	8,821	.18	.20	5.18	135.3	23.87
Los Angeles City of Intermountain.....							
	5,460	11,710	.52	.44	10.11	134.3	31.45
Colorado.....	75	12,429	.45	.36	6.21	105.2	26.15
Delta.....	46	12,412	.35	.28	4.02	104.7	25.99
Gunnison.....	28	12,458	.60	.48	9.77	105.9	26.39
Utah.....	5,386	11,700	.52	.44	10.17	134.7	31.53
Carbon.....	4,127	11,577	.53	.46	10.38	147.3	34.11
Emery.....	1,259	12,104	.49	.40	9.46	95.3	23.07
Louisville Gas & Electric Co Cane Run.....							
	1,423	11,292	3.30	2.92	11.27	98.4	22.21
Indiana.....	892	11,214	3.31	2.95	10.49	97.9	21.95
Gibson.....	17	11,219	3.60	3.20	10.75	89.8	20.16
Pike.....	875	11,214	3.30	2.94	10.49	98.0	21.99
Kentucky.....	527	11,417	3.28	2.88	12.59	99.2	22.66
Henderson.....	9	10,705	2.70	2.52	12.20	109.3	23.40
Hopkins.....	463	11,422	3.34	2.92	12.49	98.2	22.44
Perry.....	6	11,691	.88	.75	14.90	129.6	30.30
Webster.....	49	11,475	3.18	2.77	13.24	103.2	23.69
Ohio.....	3	12,300	4.45	3.62	12.10	88.4	21.75
Belmont.....	3	12,300	4.45	3.62	12.10	88.4	21.75
Louisville Gas & Electric Co Mill Creek.....							
	3,941	11,444	3.24	2.83	12.70	100.2	22.94
Indiana.....	215	11,052	3.38	3.06	10.95	82.7	18.28
Gibson.....	196	11,053	3.48	3.15	11.14	81.3	17.96
Pike.....	18	11,063	2.34	2.12	8.97	99.8	22.08
Warrick.....	2	10,695	2.98	2.79	10.30	63.3	13.54
Kentucky.....	3,358	11,392	3.20	2.81	12.95	101.6	23.15
Henderson.....	288	10,666	3.34	3.13	11.81	99.1	21.15
Hopkins.....	2,077	11,455	3.37	2.94	12.78	98.3	22.51
McLean.....	87	10,782	3.31	3.07	14.54	100.8	21.74
Magoffin.....	2	11,608	2.67	2.30	12.60	109.9	25.51
Perry.....	203	12,041	.99	.82	13.62	117.8	28.38
Pike.....	6	10,981	1.10	1.00	14.41	107.3	23.56
Webster.....	694	11,393	3.28	2.88	13.50	107.6	24.51
Ohio.....	58	12,219	4.47	3.66	11.54	97.1	23.73
Belmont.....	23	12,300	4.45	3.62	12.10	91.4	22.48
Monroe.....	35	12,166	4.48	3.68	11.17	100.9	24.54
West Virginia.....	310	12,134	3.40	2.80	11.41	98.1	23.80
Fayette.....	69	11,935	3.23	2.71	12.35	99.9	23.85
Kanawha.....	67	11,929	3.24	2.71	12.39	100.1	23.89
Marshall.....	174	12,292	3.53	2.87	10.67	96.6	23.75
Louisville Gas & Electric Co Trimble County.....							
	1,584	11,458	3.64	3.17	14.61	89.4	20.48
Kentucky.....	539	10,339	2.84	2.74	18.80	91.6	18.95
Henderson.....	51	10,628	3.68	3.47	13.01	90.5	19.23
McLean.....	269	10,465	3.57	3.41	15.98	97.7	20.45
Martin.....	210	10,025	1.70	1.70	24.22	85.0	17.05
Unknown ²	10	12,091	2.69	2.22	10.23	70.3	17.00

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Louisville Gas & Electric Co Trimble County							
Ohio	459	12,252	4.48	3.66	10.86	88.3	21.64
Monroe.....	459	12,252	4.48	3.66	10.86	88.3	21.64
West Virginia.....	586	11,864	3.71	3.13	13.68	88.5	20.99
Kanawha	127	10,464	.94	.90	23.87	89.1	18.64
Marshall	459	12,252	4.48	3.66	10.86	88.3	21.64
Lower Colorado River Authority S Seymour-Fayette.....							
Colorado.....	5,694	8,590	.34	.40	5.47	94.7	16.27
Moffat	26	10,415	.43	.41	6.16	112.7	23.47
Wyoming.....	26	10,415	.43	.41	6.16	112.7	23.47
Wyoming.....	5,668	8,582	.34	.40	5.47	94.6	16.24
Campbell.....	5,668	8,582	.34	.40	5.47	94.6	16.24
Madison Gas & Electric Co Blount							
Indiana	156	10,723	1.41	1.31	9.14	137.3	29.45
Sullivan.....	156	10,723	1.41	1.31	9.14	137.3	29.45
Manitowoc Public Utilities Manitowoc							
Indiana	112	12,897	1.19	.93	6.94	160.5	41.40
Owen.....	17	11,702	.96	.82	6.27	152.4	35.68
Sullivan.....	16	11,726	.94	.80	6.19	152.8	35.83
Kentucky.....	1	11,058	1.50	1.36	8.50	141.8	31.36
Pike	31	13,077	.81	.62	7.44	187.3	48.99
Pennsylvania.....	31	13,077	.81	.62	7.44	187.3	48.99
Greene.....	65	13,119	1.43	1.09	6.87	149.8	39.31
Greene.....	65	13,119	1.43	1.09	6.87	149.8	39.31
Marquette City of Shiras.....							
Kentucky.....	179	9,737	.39	.40	4.47	121.2	23.60
Perry.....	18	13,222	.82	.62	7.08	157.9	41.76
Montana.....	18	13,222	.82	.62	7.08	157.9	41.76
Big Horn.....	161	9,345	.34	.36	4.17	115.3	21.56
Big Horn.....	161	9,345	.34	.36	4.17	115.3	21.56
Metropolitan Edison Co Portland							
Pennsylvania.....	754	13,211	1.29	.98	7.19	140.3	37.08
Greene.....	754	13,211	1.29	.98	7.19	140.3	37.08
Washington.....	37	13,129	1.72	1.31	7.84	138.7	36.42
Washington.....	717	13,216	1.27	.96	7.16	140.4	37.12
Metropolitan Edison Co Titus							
Pennsylvania.....	508	13,216	1.31	.99	7.10	136.4	36.05
Greene.....	508	13,216	1.31	.99	7.10	136.4	36.05
Washington.....	18	13,119	1.67	1.27	8.09	134.6	35.32
Washington.....	490	13,219	1.30	.98	7.07	136.5	36.08
Michigan South Central Pwr Agy Endicott.....							
Ohio	139	11,876	3.28	2.76	10.53	158.5	37.66
Columbiana.....	139	11,876	3.28	2.76	10.53	158.5	37.66
Harrison.....	24	12,116	3.15	2.60	12.46	161.1	39.04
Tuscarawas	30	11,818	3.27	2.77	12.97	159.6	37.73
Tuscarawas	84	11,829	3.32	2.81	9.10	157.4	37.23
Midwest Power Council Bluffs.....							
Wyoming.....	3,545	8,383	.38	.46	4.96	68.4	11.47
Campbell.....	3,545	8,383	.38	.46	4.96	68.4	11.47
Midwest Power George Neal 1/4							
Wyoming.....	6,118	8,607	.37	.43	5.09	74.3	12.79
Campbell.....	6,118	8,607	.37	.43	5.09	74.3	12.79
Carbon.....	5,790	8,484	.35	.42	5.04	72.0	12.21
Carbon.....	328	10,787	.63	.58	5.98	106.8	23.03
Minnesota Power & Light Co Boswell Energy Cen.....							
Montana	3,755	9,036	.56	.62	6.40	113.9	20.58
Big Horn.....	3,632	9,046	.57	.63	6.45	113.7	20.57
Rosebud	1,625	9,344	.37	.39	4.33	106.6	19.93
Wyoming.....	2,007	8,804	.73	.83	8.17	119.7	21.08
Campbell.....	123	8,748	.24	.28	4.81	120.2	21.03
Campbell.....	123	8,748	.24	.28	4.81	120.2	21.03
Minnesota Power & Light Co Laskin Energy Cen.....							
	324	9,392	.35	.38	4.22	115.0	21.60

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Minnesota Power & Light Co Laskin Energy Cen							
Montana	324	9,392	0.35	0.38	4.22	115.0	21.60
Big Horn	324	9,392	.35	.38	4.22	115.0	21.60
Minnkota Power Coop Inc Young.....	4,136	6,702	.85	1.27	8.30	64.5	8.65
North Dakota	4,136	6,702	.85	1.27	8.30	64.5	8.65
Oliver	4,136	6,702	.85	1.27	8.30	64.5	8.65
Mississippi Power Co Daniel.....	2,831	9,412	.37	.39	4.46	147.2	27.70
Montana	2,831	9,412	.37	.39	4.46	147.2	27.70
Big Horn	2,831	9,412	.37	.39	4.46	147.2	27.70
Mississippi Power Co Watson.....	2,103	11,327	1.20	1.06	6.88	139.8	31.66
Alabama	28	13,083	.74	.57	8.50	148.0	38.73
Tuscaloosa	28	13,083	.74	.57	8.50	148.0	38.73
Illinois	1,415	11,968	1.50	1.26	7.38	141.2	33.79
Gallatin	97	12,807	2.57	2.01	8.33	131.8	33.76
Saline	1,317	11,906	1.43	1.20	7.31	141.9	33.80
Kentucky	15	12,688	1.93	1.52	7.62	146.6	37.19
Letcher	9	13,141	1.41	1.07	6.90	156.5	41.13
Union	6	12,034	2.67	2.22	8.66	130.9	31.51
Pennsylvania	7	13,068	1.46	1.12	7.00	142.2	37.17
Washington	7	13,068	1.46	1.12	7.00	142.2	37.17
Wyoming	463	8,718	.42	.48	5.23	132.3	23.07
Campbell.....	463	8,718	.42	.48	5.23	132.3	23.07
Imported.....	174	12,586	.75	.60	6.94	140.4	35.35
Imported Coal.....	174	12,586	.75	.60	6.94	140.4	35.35
Monongahela Power Co Albright.....	413	12,634	1.55	1.23	11.62	105.7	26.72
Maryland.....	9	12,297	1.73	1.41	12.55	116.0	28.53
Garrett	9	12,297	1.73	1.41	12.55	116.0	28.53
Pennsylvania	16	12,181	1.75	1.44	11.98	105.7	25.75
Fayette.....	16	12,181	1.75	1.44	11.98	105.7	25.75
West Virginia.....	389	12,660	1.54	1.22	11.58	105.5	26.71
Monongalia.....	26	12,294	1.43	1.17	13.35	115.9	28.51
Preston	357	12,695	1.55	1.22	11.46	104.8	26.60
Upshur.....	6	12,124	1.42	1.17	11.58	105.0	25.46
Monongahela Power Co Ft Martin.....	2,616	12,563	1.52	1.21	11.05	122.8	30.86
Pennsylvania	2,048	12,671	1.54	1.22	10.40	129.3	32.76
Greene.....	2,024	12,663	1.55	1.22	10.45	129.6	32.81
Washington.....	24	13,349	1.29	.96	6.33	104.7	27.96
West Virginia.....	568	12,177	1.43	1.17	13.37	98.6	24.02
Marion.....	10	12,782	1.52	1.19	9.91	138.4	35.38
Monongalia.....	558	12,166	1.43	1.17	13.43	97.9	23.82
Monongahela Power Co Harrison.....	5,207	12,516	3.53	2.82	11.93	114.4	28.64
West Virginia.....	5,207	12,516	3.53	2.82	11.93	114.4	28.64
Barbour	170	12,648	3.42	2.71	11.91	79.8	20.20
Harrison	4,686	12,510	3.55	2.84	11.92	117.1	29.31
Marion.....	198	12,461	3.50	2.81	12.75	90.8	22.63
Monongalia.....	65	12,957	2.33	1.80	9.37	111.1	28.79
Upshur.....	89	12,432	3.15	2.53	12.42	91.3	22.70
Monongahela Power Co Pleasants.....	3,164	12,299	3.85	3.13	10.75	91.5	22.49
Ohio.....	1,142	12,519	3.85	3.08	9.29	88.9	22.26
Belmont.....	1,130	12,522	3.86	3.08	9.26	89.0	22.28
Harrison	12	12,196	3.45	2.83	11.74	82.2	20.04
West Virginia.....	2,022	12,175	3.85	3.17	11.57	92.9	22.63
Marshall.....	2,022	12,175	3.85	3.17	11.57	92.9	22.63
Monongahela Power Co Rivesville.....	145	12,222	.92	.75	10.66	120.3	29.41
Pennsylvania	125	12,195	.91	.74	10.44	120.9	29.48
Fayette.....	125	12,195	.91	.74	10.44	120.9	29.48
West Virginia.....	20	12,391	1.00	.81	12.08	117.0	29.00
Monongalia.....	20	12,391	1.00	.81	12.08	117.0	29.00
Monongahela Power Co Willow Island.....	424	13,165	1.38	1.05	7.05	111.4	29.32

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Monongahela Power Co Willow Island							
Pennsylvania	424	13,165	1.38	1.05	7.05	111.4	29.32
Greene	151	13,087	1.39	1.06	7.37	113.6	29.74
Washington	274	13,208	1.38	1.04	6.87	110.1	29.10
Montana Power Co Colstrip	9,846	8,487	.75	.88	9.74	67.4	11.43
Montana	9,846	8,487	.75	.88	9.74	67.4	11.43
Rosebud	9,846	8,487	.75	.88	9.74	67.4	11.43
Montana Power Co Corette	397	8,314	.23	.28	4.45	54.4	9.04
Wyoming	397	8,314	.23	.28	4.45	54.4	9.04
Campbell	397	8,314	.23	.28	4.45	54.4	9.04
Montana-Dakota Utilities Co Coyote	2,332	6,926	1.09	1.58	8.72	83.3	11.54
North Dakota	2,332	6,926	1.09	1.58	8.72	83.3	11.54
Mercer	1,207	6,935	1.07	1.55	8.60	83.0	11.51
Oliver	1,125	6,916	1.11	1.61	8.85	83.7	11.57
Montana-Dakota Utilities Co Heskett	416	7,063	.81	1.15	7.19	110.2	15.56
North Dakota	416	7,063	.81	1.15	7.19	110.2	15.56
Mercer	223	7,078	.84	1.18	7.13	109.9	15.56
Oliver	192	7,046	.78	1.11	7.27	110.6	15.58
Unknown ²	*	7,005	1.07	1.53	7.54	55.6	7.79
Montana-Dakota Utilities Co Lewis and Clark	277	6,702	.47	.70	8.15	91.1	12.21
Montana	277	6,702	.47	.70	8.15	91.1	12.21
Richland	277	6,702	.47	.70	8.15	91.1	12.21
Montaup Electric Co Somerset	308	12,696	.73	.58	7.88	179.5	45.58
Kentucky	29	12,666	.71	.56	7.90	177.2	44.90
Pike	29	12,666	.71	.56	7.90	177.2	44.90
West Virginia	278	12,699	.73	.58	7.88	179.8	45.65
Mingo	278	12,699	.73	.58	7.88	179.8	45.65
Muscatine City of Muscatine	852	8,776	.96	1.09	6.71	89.6	15.72
Colorado	20	12,225	.54	.44	8.19	129.0	31.54
Mesa	20	12,225	.54	.44	8.19	129.0	31.54
Indiana	90	11,013	1.35	1.23	8.90	125.0	27.53
Sullivan	90	11,013	1.35	1.23	8.90	125.0	27.53
Wyoming	742	8,413	.92	1.10	6.41	82.4	13.87
Campbell	742	8,413	.92	1.10	6.41	82.4	13.87
Nebraska Public Power District Gerald Gentleman	5,530	8,614	.26	.30	4.61	46.8	8.06
Wyoming	5,530	8,614	.26	.30	4.61	46.8	8.06
Campbell	5,530	8,614	.26	.30	4.61	46.8	8.06
Nebraska Public Power District Sheldon	947	8,795	.22	.25	4.50	62.7	11.03
Wyoming	947	8,795	.22	.25	4.50	62.7	11.03
Campbell	866	8,718	.21	.24	4.44	60.7	10.59
Carbon	81	9,613	.38	.40	5.07	81.6	15.69
Nevada Power Co Gardner	1,826	11,705	.44	.38	8.92	123.2	28.84
Colorado	20	12,080	.50	.41	9.30	196.1	47.38
Gunnison	20	12,080	.50	.41	9.30	196.1	47.38
Utah	1,806	11,701	.44	.38	8.92	122.4	28.63
Carbon	862	12,016	.51	.42	9.60	132.4	31.82
Sevier	943	11,413	.38	.33	8.29	112.7	25.72
New England Power Co Brayton	2,238	12,537	.67	.54	9.34	164.7	41.30
Kentucky	342	12,710	.65	.51	6.99	170.4	43.30
Martin	322	12,696	.64	.51	7.02	171.2	43.47
Pike	20	12,925	.69	.53	6.41	157.1	40.60
West Virginia	1,423	12,481	.69	.55	10.75	165.9	41.41
Boone	664	12,518	.71	.57	10.87	165.2	41.36
Kanawha	317	12,347	.65	.53	11.81	163.5	40.37
Logan	161	12,193	.70	.57	11.36	164.9	40.20
Mingo	280	12,713	.66	.52	8.92	170.6	43.38

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
New England Power Co Brayton							
Imported.....	472	12,579	0.64	0.51	6.82	157.0	39.51
Imported Coal.....	472	12,579	.64	.51	6.82	157.0	39.51
New England Power Co Salem Harbor	547	12,543	.67	.53	6.41	164.7	41.31
West Virginia.....	81	12,344	.72	.59	11.41	163.5	40.37
Boone.....	41	12,447	.74	.60	11.20	167.5	41.71
Logan.....	40	12,240	.70	.57	11.62	159.4	39.01
Imported.....	466	12,578	.66	.53	5.54	164.9	41.47
Imported Coal.....	466	12,578	.66	.53	5.54	164.9	41.47
New York State Elec & Gas Corp Goudey	327	13,318	2.17	1.63	6.81	140.9	37.53
Pennsylvania.....	17	13,355	1.27	.95	6.24	142.1	37.96
Washington.....	17	13,355	1.27	.95	6.24	142.1	37.96
West Virginia.....	310	13,316	2.22	1.67	6.84	140.8	37.51
Monongalia.....	310	13,316	2.22	1.67	6.84	140.8	37.51
New York State Elec & Gas Corp Greenidge	356	13,150	1.50	1.14	7.23	139.6	36.70
Pennsylvania.....	305	13,112	1.40	1.07	7.30	140.1	36.73
Greene.....	11	13,215	1.94	1.47	7.47	139.4	36.84
Washington.....	294	13,108	1.38	1.05	7.30	140.1	36.72
West Virginia.....	51	13,375	2.08	1.56	6.81	136.7	36.56
Monongalia.....	51	13,375	2.08	1.56	6.81	136.7	36.56
New York State Elec & Gas Corp Hickling	210	10,396	.69	.66	22.73	124.7	25.92
Pennsylvania.....	210	10,396	.69	.66	22.73	124.7	25.92
Butler.....	4	10,466	1.02	.97	14.01	130.6	27.33
Clearfield.....	2	9,610	1.09	1.13	20.63	119.0	22.88
Elk.....	4	10,064	.82	.81	13.95	128.4	25.85
Lycoming.....	200	10,410	.67	.65	23.13	124.5	25.93
New York State Elec & Gas Corp Jennison	66	13,078	1.56	1.19	7.10	162.1	42.40
Pennsylvania.....	66	13,078	1.56	1.19	7.10	162.1	42.40
Clarion.....	5	12,603	1.33	1.06	9.33	155.2	39.12
Greene.....	61	13,117	1.58	1.20	6.92	162.7	42.67
New York State Elec & Gas Corp Kintigh	1,722	13,140	2.32	1.76	7.40	131.6	34.59
Pennsylvania.....	329	13,076	1.70	1.30	6.96	132.8	34.72
Greene.....	329	13,076	1.70	1.30	6.96	132.8	34.72
West Virginia.....	1,393	13,155	2.46	1.87	7.51	131.4	34.56
Marion.....	255	13,200	1.85	1.40	7.21	132.6	35.01
Monongalia.....	1,138	13,145	2.60	1.98	7.58	131.1	34.46
New York State Elec & Gas Corp Milliken	829	13,063	2.26	1.73	7.66	134.5	35.14
Ohio.....	5	12,612	3.99	3.16	8.31	127.7	32.21
Belmont.....	5	12,612	3.99	3.16	8.31	127.7	32.21
Pennsylvania.....	314	13,019	1.57	1.20	7.40	133.8	34.84
Armstrong.....	6	11,456	4.18	3.65	19.80	143.9	32.97
Elk.....	4	11,066	2.06	1.86	15.30	131.4	29.08
Greene.....	74	12,977	1.63	1.25	6.75	132.0	34.27
Washington.....	231	13,105	1.47	1.12	7.16	134.2	35.17
West Virginia.....	510	13,095	2.68	2.04	7.82	135.0	35.34
Marion.....	24	13,232	1.75	1.32	7.02	137.0	36.26
Monongalia.....	486	13,088	2.72	2.08	7.86	134.9	35.30
Niagara-Mohawk Power Corp Dunkirk	1,425	13,138	2.01	1.53	7.46	131.0	34.43
Pennsylvania.....	918	13,119	1.89	1.44	7.41	130.1	34.15
Greene.....	918	13,119	1.89	1.44	7.41	130.1	34.15
West Virginia.....	506	13,171	2.22	1.69	7.55	132.7	34.95
Marion.....	295	13,177	1.98	1.50	7.47	132.6	34.95
Monongalia.....	211	13,163	2.57	1.95	7.66	132.8	34.95
Niagara-Mohawk Power Corp Huntley	1,809	13,114	1.67	1.27	7.14	142.1	37.26
Pennsylvania.....	1,490	13,084	1.62	1.24	7.09	141.9	37.14
Greene.....	1,355	13,108	1.60	1.22	6.93	142.8	37.43
Indiana.....	135	12,843	1.80	1.41	8.68	133.3	34.23

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Niagara-Mohawk Power Corp Huntley							
West Virginia.....	318	13,254	1.90	1.44	7.39	142.7	37.83
Marion.....	308	13,254	1.91	1.44	7.42	142.7	37.82
Monongalia.....	11	13,266	1.72	1.30	6.58	143.3	38.02
Northern Indiana Pub Serv Co Bailly	1,449	10,996	2.52	2.29	9.12	136.2	29.95
Illinois	1,021	11,012	2.91	2.64	9.73	128.3	28.26
Macoupin	85	10,807	3.41	3.15	7.93	111.9	24.18
Montgomery	21	10,767	3.39	3.15	8.40	120.1	25.87
Perry.....	810	10,946	2.90	2.65	9.87	131.1	28.70
Randolph.....	11	11,174	3.15	2.82	9.10	120.0	26.82
Saline	94	11,797	2.42	2.05	10.46	122.1	28.81
Indiana.....	221	11,145	2.47	2.22	9.22	127.7	28.45
Daviess.....	31	11,303	2.51	2.22	8.53	128.5	29.06
Knox	29	11,407	3.71	3.25	8.15	152.3	34.74
Pike	15	11,062	2.78	2.52	10.07	120.0	26.55
Sullivan.....	146	11,068	2.18	1.97	9.49	123.2	27.27
Wyoming.....	206	10,761	.63	.59	5.99	185.6	39.95
Carbon.....	206	10,761	.63	.59	5.99	185.6	39.95
Northern Indiana Pub Serv Co Michigan City	1,531	9,525	.60	.63	5.79	136.9	26.08
Illinois	21	10,963	2.95	2.69	9.90	129.7	28.43
Perry.....	21	10,963	2.95	2.69	9.90	129.7	28.43
Indiana.....	65	11,273	3.40	3.02	8.89	126.9	28.60
Pike	47	11,348	3.83	3.38	8.59	128.2	29.10
Sullivan.....	17	11,068	2.24	2.02	9.70	123.0	27.24
Wyoming.....	1,444	9,425	.44	.47	5.59	137.5	25.93
Campbell.....	955	8,740	.35	.40	5.39	109.8	19.19
Carbon.....	489	10,765	.63	.59	5.97	181.6	39.10
Northern Indiana Pub Serv Co Mitchell.....	1,138	9,243	.41	.45	5.46	140.5	25.97
Wyoming.....	1,138	9,243	.41	.45	5.46	140.5	25.97
Campbell.....	780	8,735	.34	.39	5.34	119.1	20.80
Carbon.....	358	10,348	.56	.54	5.74	179.9	37.24
Northern Indiana Pub Serv Co Rollin Schahfer	5,070	10,032	1.35	1.35	6.84	124.3	24.95
Illinois	1,351	11,007	3.01	2.73	9.46	116.5	25.65
Montgomery	64	10,768	3.39	3.15	8.50	117.1	25.23
Perry.....	1,069	11,011	2.99	2.71	9.56	118.3	26.05
Randolph.....	206	11,025	3.04	2.76	9.17	106.9	23.56
Saline	11	11,611	2.37	2.04	11.50	123.1	28.59
Indiana.....	25	11,329	3.67	3.24	8.77	125.8	28.50
Clay.....	4	10,997	2.41	2.19	7.70	103.4	22.74
Pike	21	11,402	3.94	3.46	9.00	130.5	29.76
Ohio.....	26	12,702	4.05	3.19	8.35	117.9	29.95
Belmont.....	26	12,702	4.05	3.19	8.35	117.9	29.95
Pennsylvania	32	13,194	1.66	1.26	7.76	122.0	32.20
Greene.....	32	13,194	1.66	1.26	7.76	122.0	32.20
West Virginia.....	496	13,037	2.59	1.99	8.77	120.4	31.38
Monongalia	496	13,037	2.59	1.99	8.77	120.4	31.38
Wyoming.....	3,140	9,073	.40	.44	5.37	129.4	23.48
Campbell.....	2,542	8,673	.34	.40	5.25	113.1	19.61
Carbon.....	598	10,774	.63	.58	5.91	185.2	39.92
Northern States Power Co Bay Front.....	70	12,236	.82	.67	5.91	167.8	41.07
Kentucky	24	13,134	.78	.59	5.72	185.8	48.82
Letcher	24	13,134	.78	.59	5.72	185.8	48.82
West Virginia.....	7	13,272	2.11	1.59	7.70	172.5	45.78
Marion.....	7	13,272	2.11	1.59	7.70	172.5	45.78
Wyoming.....	38	11,451	.60	.53	5.68	153.4	35.12
Carbon.....	38	11,451	.60	.53	5.68	153.4	35.12
Northern States Power Co Black Dog	966	8,815	.19	.21	4.38	98.7	17.39
Wyoming.....	966	8,815	.19	.21	4.38	98.7	17.39
Campbell.....	966	8,815	.19	.21	4.38	98.7	17.39
Northern States Power Co High Bridge	930	8,871	.19	.22	4.43	93.9	16.66

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Northern States Power Co High Bridge							
Wyoming.....	930	8,871	0.19	0.22	4.43	93.9	16.66
Campbell.....	821	8,876	.19	.21	4.37	91.2	16.19
Converse.....	109	8,832	.24	.28	4.90	114.3	20.19
Northern States Power Co King.....	1,291	8,845	.31	.35	5.72	103.6	18.33
Montana.....	290	8,751	.64	.73	9.12	110.8	19.39
Big Horn.....	263	8,746	.63	.73	9.12	110.7	19.37
Wyoming.....	1,002	8,872	.22	.25	4.73	101.6	18.03
Campbell.....	513	8,914	.19	.21	4.26	95.5	17.02
Converse.....	488	8,828	.25	.28	5.23	108.1	19.09
Northern States Power Co Riverside.....	1,440	8,874	.19	.21	4.40	90.8	16.12
Wyoming.....	1,440	8,874	.19	.21	4.40	90.8	16.12
Campbell.....	1,356	8,879	.18	.21	4.39	91.0	16.16
Converse.....	84	8,789	.20	.23	4.60	88.0	15.47
Northern States Power Co Sherburne County.....	8,709	8,765	.50	.57	7.18	107.5	18.84
Montana.....	4,853	8,764	.64	.73	8.82	105.0	18.40
Big Horn.....	4,053	8,757	.62	.71	8.95	104.6	18.32
Rosebud.....	799	8,795	.73	.83	8.15	107.1	18.83
Wyoming.....	3,857	8,767	.33	.37	5.12	110.6	19.40
Campbell.....	3,693	8,763	.33	.38	5.13	109.9	19.26
Converse.....	163	8,859	.25	.28	4.88	127.0	22.50
Ohio Edison Co Burger.....	713	12,505	2.75	2.20	10.34	97.0	24.26
Ohio.....	386	12,303	3.55	2.88	10.63	92.0	22.63
Belmont.....	184	12,474	4.01	3.22	9.41	85.5	21.34
Harrison.....	202	12,147	3.12	2.57	11.74	98.0	23.80
Pennsylvania.....	210	13,251	2.08	1.57	7.41	101.4	26.88
Greene.....	146	13,204	2.20	1.67	7.79	104.2	27.53
Washington.....	63	13,398	1.81	1.35	6.54	95.5	25.58
Westmoreland.....	1	11,000	2.00	1.82	6.00	70.8	15.58
West Virginia.....	117	11,834	1.33	1.12	14.67	105.4	24.94
Boone.....	20	11,906	.80	.67	16.82	109.6	26.09
Kanawha.....	97	11,819	1.44	1.22	14.21	104.5	24.70
Ohio Edison Co Niles.....	524	12,073	3.16	2.62	11.95	106.8	25.80
Ohio.....	502	12,145	3.19	2.63	11.86	107.4	26.08
Columbiana.....	12	9,581	3.12	3.26	18.22	86.9	16.65
Harrison.....	468	12,252	3.18	2.59	11.56	108.6	26.62
Mahoning.....	4	10,261	3.79	3.69	20.54	74.4	15.26
Tuscarawas.....	18	11,510	3.50	3.04	13.43	90.8	20.90
Pennsylvania.....	22	10,419	2.47	2.37	13.96	92.9	19.37
Butler.....	22	10,419	2.47	2.37	13.96	92.9	19.37
Ohio Edison Co Sammis.....	5,655	12,104	1.14	.95	13.26	117.5	28.44
Kentucky.....	786	11,771	.90	.76	13.62	121.0	28.49
Johnson.....	93	9,220	1.47	1.60	30.15	73.0	13.46
Martin.....	693	12,112	.82	.68	11.41	125.9	30.51
Pennsylvania.....	1,688	13,221	1.85	1.40	7.42	110.9	29.33
Greene.....	1,094	13,212	2.10	1.59	7.76	111.9	29.57
Washington.....	589	13,250	1.40	1.05	6.78	109.2	28.95
Westmoreland.....	4	11,635	2.06	1.77	10.80	94.2	21.92
West Virginia.....	3,181	11,594	.83	.71	16.26	120.5	27.95
Boone.....	7	11,517	.89	.78	11.67	112.2	25.84
Fayette.....	6	10,239	.82	.80	25.40	79.0	16.18
Kanawha.....	1,954	11,616	.76	.66	15.98	124.5	28.91
Lincoln.....	35	11,402	1.10	.97	14.56	101.1	23.05
Mingo.....	764	11,124	.88	.79	18.83	114.6	25.50
Webster.....	415	12,393	1.00	.81	12.95	115.2	28.55
Ohio Power Co Gavin.....	6,361	11,188	3.37	3.02	12.19	180.2	40.31
Ohio.....	6,361	11,188	3.37	3.02	12.19	180.2	40.31
Belmont.....	245	11,653	2.38	2.05	13.49	115.3	26.87
Gallia.....	239	11,026	2.73	2.47	12.10	118.5	26.14
Jackson.....	239	11,026	2.73	2.47	12.10	118.5	26.14
Meigs.....	5,161	11,187	3.52	3.14	12.15	194.9	43.61
Vinton.....	477	11,122	2.98	2.68	12.06	116.0	25.80

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Ohio Power Co Kammer	1,677	12,263	3.45	2.81	10.50	86.4	21.19
West Virginia.....	1,677	12,263	3.45	2.81	10.50	86.4	21.19
Marshall.....	1,676	12,263	3.45	2.81	10.50	86.4	21.19
Monongalia.....	1	12,111	2.61	2.16	14.40	102.3	24.78
Ohio Power Co Mitchell	3,262	12,342	.79	.64	12.16	143.5	35.42
Kentucky.....	32	12,229	.83	.68	10.74	114.1	27.92
Floyd.....	18	12,211	.80	.66	10.64	114.4	27.95
Pike.....	14	12,253	.87	.71	10.87	113.8	27.88
Pennsylvania.....	4	12,589	1.92	1.53	11.30	100.8	25.38
Greene.....	4	12,589	1.92	1.53	11.30	100.8	25.38
West Virginia.....	3,226	12,343	.78	.63	12.17	143.8	35.51
Boone.....	2,040	12,424	.76	.61	11.50	154.8	38.45
Clay.....	459	12,093	.86	.71	13.63	146.6	35.45
Logan.....	243	12,180	.65	.53	13.37	113.3	27.59
Webster.....	483	12,319	.87	.70	13.03	110.0	27.11
Ohio Power Co Muskingum	2,957	11,790	2.91	2.47	12.48	221.2	52.16
Ohio.....	1,760	11,500	4.42	3.84	12.61	282.3	64.94
Belmont.....	131	12,624	4.02	3.18	8.99	97.2	24.53
Muskingum.....	179	11,409	4.45	3.90	12.90	298.8	68.18
Noble.....	1,450	11,409	4.45	3.90	12.90	298.8	68.18
West Virginia.....	1,197	12,217	.69	.56	12.29	136.6	33.37
Boone.....	585	12,321	.70	.57	12.06	136.9	33.73
Logan.....	491	12,076	.61	.51	12.64	141.2	34.11
Webster.....	122	12,281	.92	.75	11.98	116.5	28.62
Ohio Valley Electric Corp Kyger Creek	2,841	12,948	2.09	1.61	7.74	110.9	28.73
Kentucky.....	491	13,167	1.41	1.07	6.16	129.9	34.21
Floyd.....	225	13,046	1.36	1.05	6.45	129.7	33.85
Letcher.....	266	13,270	1.45	1.09	5.91	130.0	34.51
Ohio.....	640	12,280	3.75	3.05	9.40	93.3	22.92
Belmont.....	552	12,486	3.97	3.18	9.12	92.2	23.03
Jackson.....	88	10,986	2.36	2.15	11.20	101.0	22.20
Pennsylvania.....	689	13,092	2.00	1.53	7.58	106.3	27.82
Greene.....	611	13,103	2.08	1.59	7.63	105.8	27.72
Washington.....	78	13,000	1.41	1.08	7.22	110.0	28.61
Virginia.....	586	13,668	.74	.54	5.74	125.5	34.30
Buchanan.....	586	13,668	.74	.54	5.74	125.5	34.30
West Virginia.....	435	12,486	2.35	1.88	10.03	100.3	25.04
Boone.....	33	12,896	.90	.70	7.69	115.4	29.76
Brooke.....	114	12,513	4.28	3.42	9.02	92.5	23.15
Kanawha.....	150	12,550	.83	.66	11.04	111.8	28.06
Logan.....	15	12,127	.67	.55	12.60	117.5	28.50
Marshall.....	107	12,338	3.37	2.73	10.12	82.4	20.34
Mingo.....	16	12,163	.69	.57	9.60	118.2	28.75
Oklahoma Gas & Electric Co Muskogee	5,841	8,583	.27	.31	4.63	84.4	14.49
Wyoming.....	5,841	8,583	.27	.31	4.63	84.4	14.49
Campbell.....	5,504	8,569	.27	.31	4.57	84.5	14.48
Converse.....	337	8,816	.25	.29	5.55	83.4	14.71
Oklahoma Gas & Electric Co Sooner	4,041	8,698	.33	.38	5.29	79.2	13.77
Wyoming.....	4,041	8,698	.33	.38	5.29	79.2	13.77
Campbell.....	3,186	8,680	.34	.40	5.28	78.9	13.69
Carbon.....	236	8,780	.33	.37	5.31	79.3	13.92
Converse.....	619	8,759	.29	.33	5.32	80.6	14.13
Omaha Public Power District Nebraska City	2,380	8,580	.25	.29	4.78	68.2	11.71
Wyoming.....	2,380	8,580	.25	.29	4.78	68.2	11.71
Campbell.....	2,380	8,580	.25	.29	4.78	68.2	11.71
Omaha Public Power District North Omaha	2,118	8,385	.30	.36	5.17	71.1	11.92
Wyoming.....	2,118	8,385	.30	.36	5.17	71.1	11.92
Campbell.....	2,118	8,385	.30	.36	5.17	71.1	11.92
Orange and Rockland Utils Inc Lovett	684	12,965	.64	.50	8.00	185.2	48.03

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Orange and Rockland Utils Inc Lovett							
Kentucky	622	12,921	0.64	0.50	8.14	186.4	48.18
Perry	10	13,469	.73	.54	5.70	174.3	46.95
Pike	612	12,912	.64	.50	8.18	186.6	48.20
West Virginia	62	13,406	.68	.51	6.56	173.7	46.57
Boone	25	13,245	.69	.52	8.09	175.6	46.52
Logan	27	13,524	.67	.50	5.44	171.2	46.29
Nicholas	10	13,492	.71	.53	5.80	175.8	47.44
Orlando Utilities Comm Stanton Energy	2,396	12,809	1.08	.84	8.19	173.0	44.31
Kentucky	2,396	12,809	1.08	.84	8.19	173.0	44.31
Bell	88	12,818	.97	.76	7.01	162.7	41.71
Harlan	363	12,684	1.05	.83	8.85	166.1	42.15
Letcher	921	12,871	1.09	.85	7.84	173.4	44.64
Perry	547	12,706	.87	.68	8.42	186.0	47.28
Pike	477	12,900	1.34	1.04	8.34	164.3	42.39
Otter Tail Power Co Big Stone	1,699	8,728	.72	.82	9.12	92.7	16.19
Montana	1,699	8,728	.72	.82	9.12	92.7	16.19
Big Horn	1,699	8,728	.72	.82	9.12	92.7	16.19
Otter Tail Power Co Hoot Lake	388	9,288	.37	.40	4.42	123.7	22.98
Montana	388	9,288	.37	.40	4.42	123.7	22.98
Big Horn	388	9,288	.37	.40	4.42	123.7	22.98
Owensboro City of Smith	1,321	10,819	3.12	2.89	12.47	96.2	20.81
Indiana	525	10,970	3.41	3.11	10.81	97.1	21.31
Gibson	269	11,128	3.86	3.47	10.75	95.5	21.25
Pike	209	10,835	2.97	2.74	10.81	99.0	21.45
Warrick	47	10,665	2.77	2.60	11.10	98.5	21.01
Kentucky	796	10,720	2.94	2.74	13.56	95.5	20.48
Daviess	155	10,561	2.99	2.84	12.86	94.5	19.96
Hancock	1	11,997	3.56	2.97	6.50	62.5	15.00
Henderson	280	11,050	2.71	2.45	8.96	99.8	22.05
McLean	235	10,107	2.73	2.70	18.55	89.7	18.14
Muhlenberg	4	9,924	2.74	2.76	14.84	90.6	17.98
Webster	121	11,373	3.79	3.33	15.39	97.5	22.18
PacifiCorp Carbon	592	12,041	.47	.39	9.56	62.7	15.09
Utah	592	12,041	.47	.39	9.56	62.7	15.09
Emery	592	12,041	.47	.39	9.56	62.7	15.09
PacifiCorp Centralia	6,105	8,215	.59	.72	12.13	148.7	24.43
Montana	1,482	9,356	.34	.37	4.19	121.1	22.67
Big Horn	1,482	9,356	.34	.37	4.19	121.1	22.67
Washington	4,623	7,849	.67	.85	14.68	159.3	25.00
Lewis	4,325	7,852	.66	.84	14.62	159.9	25.10
Thurston	298	7,800	.72	.93	15.58	150.6	23.50
PacifiCorp Emery-Hunter	4,313	11,157	.43	.39	12.30	94.3	21.04
Utah	4,313	11,157	.43	.39	12.30	94.3	21.04
Emery	4,313	11,157	.43	.39	12.30	94.3	21.04
PacifiCorp Huntington	2,808	11,328	.43	.38	12.37	75.4	17.08
Utah	2,808	11,328	.43	.38	12.37	75.4	17.08
Emery	2,808	11,328	.43	.38	12.37	75.4	17.08
PacifiCorp Jim Bridger	8,798	9,405	.58	.61	10.25	104.4	19.64
Wyoming	8,798	9,405	.58	.61	10.25	104.4	19.64
Sweetwater	8,798	9,405	.58	.61	10.25	104.4	19.64
PacifiCorp Johnston	4,034	7,861	.47	.59	8.75	57.4	9.02
Wyoming	4,034	7,861	.47	.59	8.75	57.4	9.02
Campbell	436	8,009	.46	.57	7.94	51.1	8.19
Converse	3,598	7,843	.47	.60	8.85	58.2	9.13
PacifiCorp Naughton	2,712	10,062	.80	.79	4.71	113.6	22.87

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
PacifiCorp Naughton							
Wyoming.....	2,712	10,062	0.80	0.79	4.71	113.6	22.87
Lincoln.....	2,712	10,062	.80	.79	4.71	113.6	22.87
PacifiCorp Wyodak	2,122	8,052	.63	.79	6.64	72.8	11.72
Wyoming.....	2,122	8,052	.63	.79	6.64	72.8	11.72
Campbell.....	2,122	8,052	.63	.79	6.64	72.8	11.72
Painesville City of Painesville	94	12,521	2.43	1.94	7.89	135.7	33.97
Ohio.....	94	12,521	2.43	1.94	7.89	135.7	33.97
Columbiana.....	94	12,521	2.43	1.94	7.89	135.7	33.97
Pennsylvania Electric Co Conemaugh	5,187	12,628	2.30	1.82	11.89	107.7	27.19
Pennsylvania.....	4,659	12,607	2.28	1.81	12.11	107.5	27.11
Armstrong.....	346	12,358	2.27	1.84	12.86	106.6	26.35
Butler.....	25	12,297	2.35	1.91	14.10	105.9	26.04
Cambria.....	150	12,344	2.32	1.88	13.12	104.1	25.70
Clearfield.....	228	12,265	2.30	1.88	14.38	107.8	26.44
Greene.....	1,218	13,135	2.05	1.56	7.53	105.4	27.70
Indiana.....	582	12,408	2.37	1.91	13.71	106.7	26.47
Somerset.....	1,787	12,461	2.35	1.89	13.98	110.2	27.46
Westmoreland.....	318	12,437	2.53	2.04	13.13	104.8	26.07
Unknown ²	5	12,563	2.45	1.95	13.48	111.9	28.11
West Virginia.....	528	12,810	2.46	1.92	9.90	109.0	27.92
Monongalia.....	528	12,810	2.46	1.92	9.90	109.0	27.92
Pennsylvania Electric Co Homer City	6,383	11,381	2.19	1.93	19.15	119.4	27.17
Pennsylvania.....	6,383	11,381	2.19	1.93	19.15	119.4	27.17
Armstrong.....	722	11,021	3.77	3.42	22.81	94.9	20.93
Butler.....	28	10,514	3.14	2.99	23.99	78.2	16.45
Cambria.....	137	11,161	3.07	2.76	21.73	95.2	21.26
Clearfield.....	2	12,104	1.07	.88	12.00	123.6	29.92
Fayette.....	142	10,550	3.49	3.31	23.54	90.9	19.19
Greene.....	10	12,102	.87	.72	9.79	121.3	29.37
Indiana.....	3,963	11,514	1.54	1.33	17.84	130.6	30.07
Jefferson.....	155	12,159	.68	.56	11.28	149.1	36.26
Somerset.....	1,216	11,197	3.33	2.98	21.43	98.9	22.14
Westmoreland.....	7	11,310	2.92	2.58	19.51	92.4	20.90
Pennsylvania Electric Co Keystone	5,152	12,408	1.74	1.40	13.06	129.3	32.10
Pennsylvania.....	4,941	12,364	1.72	1.39	13.33	130.2	32.20
Armstrong.....	3,237	12,355	1.76	1.42	13.42	127.9	31.60
Clarion.....	7	12,292	2.08	1.69	10.59	105.2	25.86
Greene.....	90	12,922	1.61	1.25	8.01	99.5	25.71
Indiana.....	1,244	12,331	1.53	1.24	13.67	145.7	35.94
Jefferson.....	10	12,081	2.08	1.73	13.10	104.4	25.22
Westmoreland.....	341	12,429	2.07	1.67	12.75	105.4	26.20
Unknown ²	12	12,353	1.44	1.16	13.26	136.0	33.61
West Virginia.....	211	13,436	2.24	1.67	6.71	110.6	29.72
Monongalia.....	211	13,436	2.24	1.67	6.71	110.6	29.72
Pennsylvania Electric Co Seward	519	12,134	1.55	1.28	14.08	111.5	27.07
Pennsylvania.....	519	12,134	1.55	1.28	14.08	111.5	27.07
Fayette.....	25	12,120	1.46	1.20	12.99	119.2	28.90
Indiana.....	14	11,798	1.54	1.30	14.00	109.0	25.72
Somerset.....	470	12,142	1.56	1.28	14.19	111.0	26.96
Westmoreland.....	10	12,239	1.56	1.27	11.70	121.3	29.69
Pennsylvania Electric Co Shawville	1,681	12,260	1.78	1.45	13.74	113.8	27.92
Pennsylvania.....	1,681	12,260	1.78	1.45	13.74	113.8	27.92
Clearfield.....	1,663	12,256	1.78	1.45	13.76	113.8	27.89
Somerset.....	18	12,651	1.74	1.37	11.85	121.4	30.71
Pennsylvania Electric Co Warren	169	12,307	1.74	1.41	12.66	122.2	30.08
Pennsylvania.....	169	12,307	1.74	1.41	12.66	122.2	30.08
Armstrong.....	8	12,131	1.90	1.56	13.36	119.7	29.05
Jefferson.....	159	12,316	1.73	1.40	12.65	122.2	30.11
Somerset.....	3	12,224	1.90	1.55	11.30	128.3	31.37

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Pennsylvania Power & Light Co Brunner Island	3,146	13,053	1.68	1.29	8.41	151.5	39.55
Pennsylvania.....	3,022	13,067	1.71	1.31	8.31	151.7	39.65
Cambria.....	30	12,761	1.79	1.40	11.26	144.5	36.89
Clearfield.....	40	12,432	1.38	1.11	15.10	138.7	34.50
Greene.....	2,581	13,128	1.69	1.29	7.69	152.7	40.09
Indiana.....	256	12,703	2.07	1.63	11.93	150.9	38.35
Jefferson.....	32	12,660	1.34	1.06	12.22	146.0	36.96
Somerset.....	50	12,652	1.53	1.21	12.67	145.8	36.91
Washington.....	20	13,151	1.39	1.06	7.50	123.7	32.54
Unknown ²	13	13,200	.58	.44	6.60	101.7	26.85
West Virginia.....	124	12,711	1.06	.83	10.80	146.3	37.20
Clay.....	20	12,543	.81	.65	12.65	156.0	39.15
Mingo.....	10	12,336	1.21	.98	10.10	156.2	38.54
Upshur.....	31	13,118	1.34	1.02	8.74	140.0	36.74
Webster.....	53	12,661	.97	.77	11.63	141.0	35.71
Unknown ²	10	12,426	.95	.76	9.80	166.2	41.30
Pennsylvania Power & Light Co Holtwood	175	8,535	.74	.86	33.22	119.9	20.47
Maryland.....	32	10,751	1.07	.99	23.19	131.4	28.24
Allegany.....	30	10,762	1.07	1.00	23.20	130.9	28.18
Garrett.....	1	10,485	.95	.91	25.60	145.1	30.43
Unknown ²	1	10,690	1.03	.96	20.30	130.3	27.86
Pennsylvania.....	143	8,039	.66	.82	35.47	116.5	18.73
Northumberland.....	6	10,760	.69	.64	16.37	160.6	34.56
Schuylkill.....	107	7,246	.57	.79	39.14	110.1	15.95
Somerset.....	22	10,874	1.12	1.03	24.86	133.8	29.10
Sullivan.....	2	10,719	.57	.54	18.60	144.2	30.91
Unknown ²	6	8,178	.56	.68	33.60	63.2	10.34
Pennsylvania Power & Light Co Martins Creek	503	13,172	1.79	1.36	7.65	134.1	35.33
Pennsylvania.....	503	13,172	1.79	1.36	7.65	134.1	35.33
Cambria.....	11	12,666	1.81	1.43	11.90	107.4	27.21
Clearfield.....	9	13,288	.69	.52	5.60	91.2	24.24
Greene.....	483	13,181	1.82	1.38	7.59	135.5	35.72
Pennsylvania Power & Light Co Montour	3,397	12,664	1.92	1.52	12.43	142.7	36.15
Pennsylvania.....	3,379	12,660	1.92	1.52	12.46	142.8	36.15
Cambria.....	595	12,554	2.02	1.61	12.79	145.1	36.45
Clarion.....	29	12,670	1.56	1.23	9.56	139.4	35.32
Clearfield.....	1,117	12,560	1.91	1.52	13.64	142.0	35.66
Greene.....	407	13,149	1.67	1.27	7.74	144.9	38.09
Indiana.....	636	12,617	2.01	1.59	13.00	143.7	36.26
Jefferson.....	230	12,597	2.03	1.61	13.46	142.3	35.85
Somerset.....	282	12,576	2.03	1.62	13.62	141.1	35.48
Washington.....	83	13,141	1.39	1.05	7.43	127.1	33.42
West Virginia.....	18	13,441	1.43	1.06	7.10	139.2	37.42
Monongalia.....	18	13,441	1.43	1.06	7.10	139.2	37.42
Pennsylvania Power & Light Co Sunbury	1,054	10,446	1.14	1.09	22.98	125.7	26.26
Pennsylvania.....	1,054	10,446	1.14	1.09	22.98	125.7	26.26
Centre.....	18	12,757	1.17	.92	11.83	133.4	34.05
Clarion.....	30	12,760	1.44	1.13	9.26	131.2	33.48
Clearfield.....	473	12,230	1.58	1.29	14.30	145.2	35.52
Elk.....	48	12,443	1.57	1.26	12.03	134.2	33.41
Jefferson.....	32	12,380	1.63	1.32	12.60	133.3	33.00
Lycoming.....	58	11,143	.68	.61	21.30	123.4	27.50
Schuylkill.....	362	7,372	.54	.73	38.18	84.3	12.44
Sullivan.....	26	8,616	.53	.61	30.99	70.5	12.15
Unknown ²	7	11,451	1.38	1.20	17.87	119.2	27.30
Pennsylvania Power Co New Castle	747	11,930	1.66	1.39	13.02	118.5	28.27
Pennsylvania.....	747	11,930	1.66	1.39	13.02	118.5	28.27
Beaver.....	747	11,930	1.66	1.39	13.02	118.5	28.27
Pennsylvania Power Co Bruce Mansfield	6,187	12,021	3.65	3.04	12.97	167.1	40.16

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Pennsylvania Power Co Bruce Mansfield							
Ohio	212	12,016	3.66	3.05	12.95	165.3	39.73
Carroll	105	12,003	3.64	3.03	12.94	167.2	40.13
Monroe	29	12,087	3.79	3.14	12.53	161.8	39.12
Tuscarawas	77	12,006	3.64	3.03	13.13	164.1	39.41
Pennsylvania	561	12,012	3.65	3.03	13.04	167.4	40.21
Butler	45	11,873	3.51	2.96	13.80	166.1	39.44
Fayette	196	12,001	3.62	3.02	13.03	170.6	40.94
Greene	15	12,045	3.44	2.85	13.44	159.0	38.30
Washington	305	12,037	3.69	3.07	12.91	165.9	39.94
West Virginia	5,414	12,022	3.65	3.04	12.96	167.1	40.17
Kanawha	17	11,939	3.36	2.82	13.04	177.2	42.32
Marion	5	12,068	3.64	3.02	12.70	170.4	41.13
Marshall	5,312	12,022	3.65	3.04	12.96	167.1	40.17
Mingo	30	12,023	3.58	2.98	12.63	171.3	41.19
Monongalia	50	11,997	3.56	2.97	13.63	162.5	38.99
Philadelphia Electric Co Cromby							
Pennsylvania	296	13,163	1.72	1.31	7.75	143.1	37.68
Greene	296	13,163	1.72	1.31	7.75	143.1	37.68
Greene	155	13,171	1.90	1.44	8.02	144.1	37.95
Washington	141	13,154	1.53	1.17	7.46	142.1	37.37
Philadelphia Electric Co Eddystone							
Pennsylvania	978	13,191	1.70	1.29	7.74	144.8	38.19
Pennsylvania	978	13,191	1.70	1.29	7.74	144.8	38.19
Greene	540	13,168	1.89	1.43	8.01	146.2	38.50
Washington	438	13,219	1.47	1.11	7.41	143.0	37.80
Plains Elec Gen&Trans Coop Inc Escalante							
New Mexico	767	9,264	.83	.89	17.15	139.0	25.75
New Mexico	767	9,264	.83	.89	17.15	139.0	25.75
Mckinley	767	9,264	.83	.89	17.15	139.0	25.75
Platte River Power Authority Rawhide							
Wyoming	1,050	8,799	.26	.29	5.37	59.4	10.45
Wyoming	1,050	8,799	.26	.29	5.37	59.4	10.45
Campbell	55	8,445	.33	.39	4.95	53.6	9.05
Converse	994	8,818	.25	.29	5.39	59.7	10.52
Portland General Electric Co Boardman							
Wyoming	2,014	8,685	.32	.37	5.19	108.9	18.92
Wyoming	2,014	8,685	.32	.37	5.19	108.9	18.92
Campbell	1,685	8,665	.32	.37	5.18	108.9	18.88
Converse	329	8,788	.30	.34	5.26	108.8	19.12
Potomac Edison Co Smith							
Maryland	160	12,229	.92	.76	13.31	131.0	32.03
Maryland	34	12,213	.96	.79	11.73	124.3	30.36
Allegany	34	12,213	.96	.79	11.73	124.3	30.36
Pennsylvania	126	12,233	.92	.75	13.74	132.8	32.48
Somerset	126	12,233	.92	.75	13.74	132.8	32.48
Potomac Electric Power Co Chalk							
Maryland	1,497	13,109	1.38	1.05	8.71	165.7	43.44
Maryland	419	13,144	1.52	1.15	9.22	181.3	47.67
Garrett	419	13,144	1.52	1.15	9.22	181.3	47.67
Pennsylvania	696	12,958	1.42	1.10	8.80	154.9	40.13
Cambria	78	12,852	1.61	1.25	8.89	150.1	38.58
Clearfield	26	12,965	1.67	1.29	9.87	166.0	43.04
Greene	251	12,975	1.53	1.18	6.98	145.1	37.64
Somerset	304	12,946	1.27	.98	10.42	164.2	42.52
Washington	37	13,157	1.43	1.09	6.88	146.8	38.63
West Virginia	382	13,346	1.16	.87	8.00	167.9	44.83
Barbour	235	13,598	1.04	.76	7.38	161.1	43.81
Kanawha	31	12,179	.70	.57	11.60	187.2	45.60
Preston	108	13,113	1.57	1.20	8.36	180.2	47.25
Upshur	8	13,631	1.04	.76	7.40	143.7	39.18
Potomac Electric Power Co Dickerson							
Maryland	1,358	13,013	1.44	1.10	8.70	136.7	35.58
Maryland	42	13,266	1.56	1.18	8.65	130.1	34.51
Garrett	42	13,266	1.56	1.18	8.65	130.1	34.51

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Potomac Electric Power Co Dickerson							
West Virginia.....	1,316	13,004	1.43	1.10	8.70	136.9	35.62
Barbour.....	447	13,059	1.45	1.11	8.20	134.7	35.19
Braxton.....	30	13,321	1.47	1.10	8.60	135.3	36.05
Preston.....	681	12,977	1.45	1.12	9.05	139.2	36.13
Upshur.....	135	12,983	1.34	1.03	8.28	132.3	34.34
Webster.....	23	12,451	1.09	.88	10.67	143.7	35.79
Potomac Electric Power Co Morgantown	2,772	13,042	1.48	1.14	7.42	150.4	39.23
Maryland.....	183	13,007	1.51	1.16	8.81	184.4	47.97
Garrett.....	183	13,007	1.51	1.16	8.81	184.4	47.97
Pennsylvania.....	2,427	13,042	1.48	1.14	7.25	146.0	38.08
Cambria.....	43	12,733	1.40	1.10	9.53	150.6	38.35
Clearfield.....	56	13,010	1.68	1.29	10.02	165.4	43.04
Greene.....	1,479	12,992	1.53	1.18	6.93	145.6	37.83
Somerset.....	173	13,125	1.26	.96	9.64	165.0	43.30
Washington.....	676	13,154	1.42	1.08	6.98	140.1	36.86
West Virginia.....	162	13,083	1.46	1.11	8.33	177.9	46.56
Barbour.....	31	13,098	1.43	1.10	7.93	169.7	44.45
Preston.....	131	13,079	1.46	1.12	8.43	179.9	47.06
Potomac Electric Power Co Potomac River	949	12,862	.80	.62	8.12	155.1	39.89
Kentucky.....	170	12,900	.79	.61	8.19	153.9	39.70
Pike.....	170	12,900	.79	.61	8.19	153.9	39.70
Virginia.....	27	13,373	.88	.66	7.17	154.4	41.30
Buchanan.....	6	13,617	.77	.57	4.80	155.5	42.35
Wise.....	21	13,303	.91	.68	7.85	154.1	41.00
West Virginia.....	752	12,835	.80	.62	8.14	155.4	39.88
Fayette.....	16	12,994	.65	.50	7.00	160.8	41.80
Mingo.....	653	12,814	.80	.62	8.18	155.4	39.81
Wyoming.....	83	12,973	.79	.61	8.07	154.4	40.07
PSI Energy Inc Cayuga	2,657	10,900	1.55	1.42	9.40	117.8	25.68
Illinois.....	171	10,899	1.46	1.34	8.28	110.2	24.03
Vermilion.....	158	10,870	1.47	1.35	8.29	109.7	23.84
White.....	13	11,245	1.43	1.27	8.20	116.9	26.29
Indiana.....	2,485	10,901	1.56	1.43	9.48	118.3	25.80
Daviess.....	327	11,167	.91	.82	7.59	117.4	26.23
Greene.....	1,918	10,888	1.78	1.64	9.85	119.1	25.93
Knox.....	191	11,129	.51	.46	7.25	121.4	27.02
Vigo.....	49	8,722	1.21	1.38	16.30	73.6	12.85
PSI Energy Inc Edwardsport	244	11,144	1.86	1.67	8.49	97.8	21.79
Indiana.....	244	11,144	1.86	1.67	8.49	97.8	21.79
Daviess.....	83	11,295	1.99	1.76	7.89	102.7	23.19
Greene.....	32	10,968	1.62	1.48	9.09	90.6	19.88
Knox.....	87	11,069	2.06	1.86	9.27	96.9	21.45
Owen.....	42	11,141	1.39	1.25	7.58	95.1	21.19
PSI Energy Inc Gallagher	1,206	13,105	2.10	1.60	7.23	106.6	27.95
Illinois.....	38	11,958	.80	.67	5.15	125.5	30.01
Jefferson.....	38	11,958	.80	.67	5.15	125.5	30.01
Indiana.....	18	11,020	1.39	1.26	9.49	109.5	24.14
Greene.....	17	10,985	1.30	1.18	9.63	110.9	24.36
Vigo.....	2	11,343	2.20	1.94	8.20	97.7	22.16
Kentucky.....	3	11,461	1.15	1.00	13.50	114.7	26.29
Knott.....	3	11,461	1.15	1.00	13.50	114.7	26.29
Pennsylvania.....	636	13,109	2.08	1.58	7.57	105.9	27.76
Greene.....	636	13,109	2.08	1.58	7.57	105.9	27.76
West Virginia.....	510	13,273	2.25	1.69	6.84	106.1	28.17
Kanawha.....	2	12,647	.92	.73	12.40	106.4	26.91
Monongalia.....	504	13,286	2.26	1.70	6.77	106.2	28.23
Raleigh.....	4	11,945	.85	.71	12.30	87.7	20.95
PSI Energy Inc Gibson Station	9,474	11,004	1.89	1.72	9.08	109.6	24.12

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
PSI Energy Inc Gibson Station							
Illinois	1,389	11,031	1.43	1.30	10.60	110.7	24.42
Wabash	1,389	11,031	1.43	1.30	10.60	110.7	24.42
Indiana	8,086	11,000	1.97	1.79	8.82	109.4	24.07
Daviess	138	11,156	1.28	1.15	7.76	122.6	27.35
Gibson	5,430	11,093	2.33	2.10	8.82	100.9	22.39
Knox	329	11,048	1.33	1.21	8.59	115.5	25.51
Pike	6	9,894	2.17	2.19	17.20	64.3	12.72
Sullivan	150	10,791	1.25	1.16	8.58	133.9	28.90
Vigo	2,033	10,750	1.22	1.13	8.91	129.2	27.78
PSI Energy Inc Noblesville							
Indiana	193	11,178	2.32	2.08	8.99	113.7	25.42
Clay	2	10,874	1.79	1.65	7.40	134.9	29.34
Daviess	14	11,223	2.56	2.28	8.97	113.7	25.52
Greene	66	11,163	2.23	1.99	9.68	113.8	25.42
Knox	29	11,044	2.32	2.10	9.89	121.5	26.83
Owen	19	11,032	2.44	2.22	8.45	110.0	24.26
Parke	46	11,364	2.47	2.17	7.98	111.8	25.41
Vigo	2	8,922	1.12	1.25	13.59	88.8	15.85
Unknown ²	13	11,480	2.13	1.86	7.40	107.6	24.70
PSI Energy Inc Wabash River							
Indiana	2,556	10,814	1.77	1.64	9.68	105.7	22.87
Clay	176	10,999	1.67	1.52	7.62	113.3	24.92
Greene	1,750	10,853	1.97	1.81	10.13	105.8	22.97
Knox	*	11,063	2.21	2.00	10.20	102.0	22.57
Owen	138	11,056	1.68	1.52	7.45	105.6	23.36
Sullivan	40	10,680	1.21	1.13	9.00	93.4	19.95
Vigo	453	10,533	1.12	1.06	9.49	103.4	21.78
Public Service Co of Colorado Araphoe							
Colorado	7	11,432	.46	.40	9.25	110.3	25.22
Routt	7	11,432	.46	.40	9.25	110.3	25.22
Wyoming	709	8,704	.27	.31	5.43	82.5	14.36
Campbell	183	8,494	.33	.39	5.35	82.9	14.08
Converse	526	8,776	.25	.28	5.46	82.4	14.46
Public Service Co of Colorado Cameo							
Colorado	271	10,829	.55	.51	15.90	96.9	20.98
Mesa	271	10,829	.55	.51	15.90	96.9	20.98
Public Service Co of Colorado Cherokee							
Colorado	2,251	11,402	.47	.41	9.15	94.5	21.54
Mesa	20	11,386	.57	.50	11.95	94.6	21.54
Moffat	66	10,406	.39	.37	5.98	89.4	18.61
Routt	2,165	11,432	.47	.41	9.22	94.6	21.63
Public Service Co of Colorado Comanche							
Wyoming	2,934	8,563	.27	.32	4.42	90.5	15.50
Campbell	2,934	8,563	.27	.32	4.42	90.5	15.50
Public Service Co of Colorado Hayden							
Colorado	1,622	10,584	.42	.40	7.72	96.4	20.40
Routt	1,622	10,584	.42	.40	7.72	96.4	20.40
Public Service Co of Colorado Pawnee							
Wyoming	2,168	8,370	.37	.44	4.63	86.0	14.40
Campbell	2,168	8,370	.37	.44	4.63	86.0	14.40
Public Service Co of Colorado Valmont							
Colorado	599	11,286	.47	.42	9.32	109.7	24.77
Mesa	58	11,477	.55	.48	11.44	115.0	26.39
Moffat	11	10,651	.39	.37	5.08	103.7	22.09
Routt	529	11,278	.46	.41	9.18	109.3	24.65
Public Service Co of NH Merrimack							
	1,028	13,203	1.67	1.27	7.07	165.0	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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Public Service Co of NH Merrimack							
Pennsylvania	799	13,178	1.49	1.13	7.06	166.3	43.82
Greene	404	13,170	1.57	1.19	7.00	167.6	44.15
Washington	386	13,186	1.40	1.06	7.11	164.9	43.48
Westmoreland	10	13,210	1.39	1.05	7.20	164.9	43.58
West Virginia	229	13,289	2.32	1.75	7.10	160.6	42.68
Barbour	79	13,218	2.19	1.66	7.57	161.5	42.70
Monongalia	149	13,327	2.39	1.79	6.85	160.1	42.67
Public Service Co of NH Schiller	381	12,943	.68	.53	5.75	150.8	39.05
Pennsylvania	15	13,018	1.40	1.08	6.90	159.8	41.60
Greene	15	13,018	1.40	1.08	6.90	159.8	41.60
Imported	366	12,940	.65	.50	5.70	150.5	38.95
Imported Coal	366	12,940	.65	.50	5.70	150.5	38.95
Public Service Co of NM San Juan	6,780	9,271	.84	.91	25.02	164.4	30.48
New Mexico	6,780	9,271	.84	.91	25.02	164.4	30.48
San Juan	6,780	9,271	.84	.91	25.02	164.4	30.48
Public Service Co of Oklahoma Northeastern	4,266	8,796	.20	.23	4.40	110.5	19.45
Wyoming	4,266	8,796	.20	.23	4.40	110.5	19.45
Campbell	4,266	8,796	.20	.23	4.40	110.5	19.45
Public Service Electric&Gas Co Hudson	639	12,528	.85	.68	11.31	143.0	35.84
Kentucky	110	12,933	.75	.58	7.53	151.5	39.18
Pike	110	12,933	.75	.58	7.53	151.5	39.18
West Virginia	529	12,444	.88	.70	12.10	141.2	35.14
Boone	60	12,699	.74	.58	10.17	146.0	37.08
Logan	7	13,320	.87	.65	7.00	139.4	37.14
Webster	406	12,324	.92	.74	13.12	139.7	34.44
Wyoming	57	12,925	.73	.56	7.44	146.5	37.87
Public Service Electric&Gas Co Mercer	971	13,720	.72	.52	6.11	151.0	41.44
Virginia	760	13,969	.73	.52	5.15	153.8	42.97
Buchanan	737	13,981	.73	.52	5.09	154.1	43.08
West Virginia	172	12,785	.70	.54	10.48	136.6	34.94
Mcdowell	55	12,101	.64	.53	13.90	131.8	31.90
Wyoming	108	13,229	.72	.55	8.71	139.5	36.91
Unknown ²	8	11,531	.67	.58	10.60	126.9	29.27
Imported	39	12,998	.68	.52	5.50	155.3	40.37
Imported Coal	39	12,998	.68	.52	5.50	155.3	40.37
Richmond City of Whitewater	279	11,624	2.47	2.13	9.54	132.3	30.77
Indiana	142	11,183	2.50	2.23	9.57	135.0	30.20
Clay	2	10,956	2.91	2.66	11.15	135.5	29.69
Daviess	96	11,132	2.53	2.27	9.22	135.6	30.18
Greene	44	11,304	2.42	2.14	10.28	133.8	30.26
Kentucky	28	11,787	2.24	1.90	11.02	136.1	32.09
Breathitt	9	10,830	1.94	1.79	14.39	140.4	30.40
Knott	13	12,384	2.44	1.97	10.01	136.0	33.68
Unknown ²	6	11,882	2.24	1.89	8.19	130.4	30.99
Ohio	55	12,164	2.53	2.08	7.32	128.8	31.34
Unknown ²	55	12,164	2.53	2.08	7.32	128.8	31.34
West Virginia	53	12,151	2.46	2.03	11.02	127.6	31.00
Fayette	11	12,189	2.27	1.86	11.84	129.7	31.61
Kanawha	10	11,536	2.10	1.82	13.40	135.3	31.22
Marshall	33	12,320	2.63	2.14	10.04	124.7	30.74
Rochester Gas & Electric Corp Beebe 3	24	12,615	1.87	1.48	10.07	154.7	39.03
Pennsylvania	24	12,615	1.87	1.48	10.07	154.7	39.03
Westmoreland	24	12,615	1.87	1.48	10.07	154.7	39.03
Rochester Gas & Electric Corp Russell 7	759	13,295	2.22	1.67	7.20	144.2	38.35
West Virginia	759	13,295	2.22	1.67	7.20	144.2	38.35
Marion	191	13,230	2.06	1.56	7.51	147.4	38.99
Monongalia	567	13,317	2.28	1.71	7.09	143.2	38.14
Rochester Public Utilities Silver Lake	112	11,281	1.31	1.16	8.22	154.3	34.80

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Rochester Public Utilities Silver Lake							
Illinois	42	11,953	1.38	1.16	6.84	161.0	38.50
Saline	42	11,953	1.38	1.16	6.84	161.0	38.50
Indiana	69	10,861	1.26	1.16	9.07	149.7	32.52
Sullivan	69	10,861	1.26	1.16	9.07	149.7	32.52
Kentucky	1	12,650	1.35	1.07	7.90	150.0	37.95
Martin	1	12,650	1.35	1.07	7.90	150.0	37.95
Salt River Proj Ag I & P Dist Coronado	2,526	9,816	.43	.44	14.73	181.1	35.55
New Mexico	2,526	9,816	.43	.44	14.73	181.1	35.55
Mckinley	2,526	9,816	.43	.44	14.73	181.1	35.55
Salt River Proj Ag I & P Dist Navajo	7,680	10,981	.54	.49	9.19	116.8	25.65
Arizona	7,680	10,981	.54	.49	9.19	116.8	25.65
Navajo	7,680	10,981	.54	.49	9.19	116.8	25.65
San Antonio City of JT Deely/Spruce	5,462	8,415	.34	.41	5.94	98.7	16.62
Wyoming	5,395	8,371	.34	.41	5.95	97.1	16.26
Campbell	5,395	8,371	.34	.41	5.95	97.1	16.26
Imported	67	11,972	.57	.47	5.21	190.9	45.70
Imported Coal	67	11,972	.57	.47	5.21	190.9	45.70
San Miguel Electric Coop Inc San Miguel	3,523	5,215	1.78	3.42	27.45	69.4	7.24
Texas	3,523	5,215	1.78	3.42	27.45	69.4	7.24
Atascosa	2,761	5,211	1.78	3.42	27.46	69.1	7.20
McMullen	762	5,227	1.79	3.42	27.39	70.6	7.38
Savannah Electric & Power Inc Kraft	414	12,492	1.01	.81	7.19	144.6	36.14
Imported	414	12,492	1.01	.81	7.19	144.6	36.14
Imported Coal	414	12,492	1.01	.81	7.19	144.6	36.14
Savannah Electric & Power Inc McIntosh	430	10,683	.92	.86	19.40	140.4	29.99
Kentucky	430	10,683	.92	.86	19.40	140.4	29.99
Perry	430	10,683	.92	.86	19.40	140.4	29.99
Seminole Electric Coop Inc Seminole	3,591	12,242	2.91	2.38	7.84	178.8	43.79
Illinois	1,634	11,685	2.98	2.55	7.71	190.7	44.57
White	1,634	11,685	2.98	2.55	7.71	190.7	44.57
Kentucky	1,167	12,451	2.57	2.07	8.20	178.7	44.49
Breathitt	251	12,502	1.60	1.28	9.11	167.6	41.92
Hopkins	24	11,774	3.15	2.68	10.20	169.0	39.80
Pike	10	12,642	1.25	.99	7.50	178.0	45.01
Union	72	11,953	2.78	2.33	6.04	168.7	40.33
Webster	810	12,498	2.86	2.29	8.07	183.2	45.80
Virginia	13	12,496	3.06	2.45	11.93	150.2	37.55
Lee	4	12,642	2.73	2.16	9.30	141.9	35.88
Wise	9	12,431	3.20	2.57	13.10	154.0	38.29
West Virginia	777	13,094	3.26	2.49	7.52	157.3	41.18
Harrison	777	13,094	3.26	2.49	7.52	157.3	41.18
Sierra Pacific Power Co North Valmy	1,706	11,466	.38	.33	8.57	147.7	33.86
Utah	1,706	11,466	.38	.33	8.57	147.7	33.86
Carbon	353	11,528	.45	.39	8.89	128.4	29.60
Emery	160	12,196	.53	.43	10.41	109.9	26.81
Sevier	1,193	11,349	.34	.30	8.23	158.9	36.07
Sikeston City of Sikeston	1,046	8,721	.35	.40	5.34	100.2	17.48
Wyoming	1,046	8,721	.35	.40	5.34	100.2	17.48
Campbell	1,046	8,721	.35	.40	5.34	100.2	17.48
South Carolina Electric&Gas Co Canadys	759	12,788	1.36	1.06	9.27	153.1	39.16
Kentucky	616	12,767	1.34	1.05	9.30	153.2	39.13
Knott	48	12,620	1.11	.88	9.00	162.7	41.07
Martin	2	12,005	1.16	.97	12.40	145.9	35.03
Pike	566	12,783	1.36	1.06	9.32	152.5	38.98

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
South Carolina Electric&Gas Co Canadys							
Tennessee.....	84	12,919	1.38	1.07	7.91	154.6	39.94
Claiborne.....	84	12,919	1.38	1.07	7.91	154.6	39.94
Virginia.....	60	12,821	1.53	1.20	10.88	149.8	38.40
Wise.....	60	12,821	1.53	1.20	10.88	149.8	38.40
South Carolina Electric&Gas Co Cope							
Kentucky.....	1,101	12,553	1.20	.96	10.19	152.2	38.22
Breathitt.....	9	12,355	1.86	1.51	10.10	148.8	36.77
Knott.....	308	12,296	1.25	1.02	10.15	155.8	38.32
Letcher.....	37	12,636	1.17	.93	8.61	156.0	39.42
Martin.....	117	12,244	1.14	.93	11.55	149.4	36.58
Pike.....	563	12,712	1.19	.93	10.04	150.8	38.34
Tennessee.....	5	12,667	1.39	1.10	9.80	151.8	38.46
Claiborne.....	5	12,667	1.39	1.10	9.80	151.8	38.46
Virginia.....	62	12,937	1.14	.88	10.18	151.6	39.22
Dickenson.....	44	13,081	1.14	.87	9.98	152.4	39.87
Wise.....	18	12,589	1.14	.90	10.64	149.6	37.66
South Carolina Electric&Gas Co Mcmeekin							
Kentucky.....	629	13,081	1.41	1.08	9.89	150.1	39.27
Knott.....	5	11,968	1.60	1.34	11.98	150.2	35.96
Pike.....	125	12,775	1.36	1.06	10.45	148.1	37.84
Virginia.....	499	13,169	1.42	1.08	9.73	150.6	39.67
Dickenson.....	499	13,169	1.42	1.08	9.73	150.6	39.67
South Carolina Electric&Gas Co Urguhart							
Kentucky.....	436	13,031	1.29	.99	8.87	152.6	39.77
Pike.....	190	12,958	1.17	.90	9.57	151.3	39.22
Tennessee.....	180	12,958	1.17	.90	9.57	151.3	39.22
Claiborne.....	180	12,958	1.42	1.10	8.17	153.0	39.65
Virginia.....	66	13,440	1.29	.96	8.76	155.1	41.69
Dickenson.....	44	13,621	1.30	.95	7.79	155.8	42.44
Wise.....	22	13,073	1.28	.98	10.74	153.6	40.15
South Carolina Electric&Gas Co Wateree							
Kentucky.....	1,693	12,426	1.26	1.02	11.43	150.6	37.42
Breathitt.....	70	11,854	1.84	1.55	12.76	149.9	35.53
Knott.....	322	12,112	1.45	1.19	11.87	153.6	37.20
Letcher.....	18	12,388	1.24	1.00	9.60	141.3	35.01
Martin.....	113	12,072	1.07	.88	11.60	148.0	35.74
Pike.....	725	12,524	1.14	.91	11.09	150.0	37.56
Tennessee.....	90	12,598	1.40	1.12	8.97	154.0	38.81
Claiborne.....	90	12,598	1.40	1.12	8.97	154.0	38.81
Virginia.....	354	12,697	1.28	1.01	12.12	149.7	38.00
Dickenson.....	27	12,749	1.47	1.15	12.34	153.2	39.05
Wise.....	326	12,693	1.26	1.00	12.10	149.4	37.92
South Carolina Electric&Gas Co Williams							
Kentucky.....	1,346	12,913	.77	.60	7.58	161.2	41.62
Knott.....	160	12,845	.86	.67	8.01	164.5	42.27
Perry.....	360	13,142	.76	.58	6.62	162.9	42.82
Pike.....	827	12,827	.76	.59	7.91	159.7	40.97
South Carolina Pub Serv Auth Cross							
Kentucky.....	2,608	12,886	1.11	.86	7.92	135.0	34.80
Floyd.....	10	12,694	1.17	.92	9.00	131.4	33.36
Harlan.....	909	12,840	1.08	.84	7.79	133.9	34.40
Letcher.....	121	13,298	1.43	1.07	6.60	132.3	35.20
Pike.....	1,568	12,883	1.11	.86	8.10	135.9	35.02
South Carolina Pub Serv Auth Grainger							
Kentucky.....	227	13,231	1.63	1.23	6.62	151.5	40.10
Floyd.....	9	12,657	1.30	1.03	8.70	150.9	38.20
Letcher.....	208	13,260	1.67	1.26	6.39	151.8	40.27
Pike.....	10	13,131	1.15	.88	9.60	145.3	38.16
South Carolina Pub Serv Auth Jefferies							
	640	13,300	1.62	1.22	6.33	132.1	35.13

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
South Carolina Pub Serv Auth Jefferies							
Kentucky	640	13,300	1.62	1.22	6.33	132.1	35.13
Letcher	621	13,319	1.63	1.22	6.18	131.8	35.11
Pike	19	12,674	1.32	1.04	11.13	141.4	35.85
South Carolina Pub Serv Auth Winyah	2,656	12,908	1.24	.96	8.33	135.7	35.04
Kentucky	2,656	12,908	1.24	.96	8.33	135.7	35.04
Breathitt	19	12,572	1.09	.87	8.27	135.2	34.00
Floyd	69	13,012	1.14	.88	7.21	132.1	34.38
Harlan	933	12,793	1.10	.86	8.16	132.7	33.94
Letcher	674	13,267	1.51	1.14	6.46	132.0	35.01
Pike	962	12,767	1.19	.93	9.89	141.7	36.17
South Mississippi El Pwr Assn R D Morrow	952	12,336	.89	.72	8.82	197.4	48.71
Kentucky	952	12,336	.89	.72	8.82	197.4	48.71
Leslie	952	12,336	.89	.72	8.82	197.4	48.71
Southern California Edison Co Mohave.....	4,503	10,893	.51	.47	10.40	125.6	27.36
Arizona	4,503	10,893	.51	.47	10.40	125.6	27.36
Navajo	4,503	10,893	.51	.47	10.40	125.6	27.36
Southern Illinois Power Coop Marion	827	10,805	2.95	2.73	16.60	93.5	20.20
Illinois	827	10,805	2.95	2.73	16.60	93.5	20.20
Gallatin	197	10,581	3.11	2.94	19.30	89.9	19.02
Jefferson	27	8,454	1.78	2.11	22.83	52.6	8.89
Perry	182	11,221	2.68	2.39	11.28	109.9	24.67
Saline	171	12,120	3.76	3.10	15.22	103.6	25.13
Williamson	250	10,033	2.60	2.59	18.63	78.5	15.74
Southern Indiana Gas & Elec Co A B Brown.....	1,444	11,486	3.80	3.31	8.68	94.5	21.70
Illinois	34	11,615	2.98	2.57	7.55	103.1	23.95
White	34	11,615	2.98	2.57	7.55	103.1	23.95
Indiana	1,305	11,450	3.87	3.38	8.64	93.5	21.42
Gibson	*	10,944	4.73	4.32	13.80	98.1	21.47
Pike	1,305	11,450	3.87	3.38	8.63	93.5	21.42
Kentucky	105	11,892	3.18	2.67	9.64	102.9	24.49
Hopkins	105	11,892	3.18	2.67	9.64	102.9	24.49
Southern Indiana Gas & Elec Co Culley	1,395	11,468	3.61	3.15	9.12	92.3	21.16
Indiana	1,329	11,398	3.74	3.28	9.22	90.2	20.56
Daviess	25	11,514	1.21	1.05	6.27	134.1	30.88
Gibson	15	10,964	2.50	2.28	9.67	96.6	21.18
Knox	115	11,401	2.35	2.06	8.30	95.0	21.66
Pike	34	11,514	3.90	3.39	8.50	87.8	20.22
Warrick	1,141	11,397	3.94	3.46	9.39	88.7	20.23
Kentucky	33	12,696	.78	.62	7.20	137.9	35.00
Letcher	33	12,696	.78	.62	7.20	137.9	35.00
Pennsylvania	32	13,130	1.54	1.18	7.06	121.1	31.79
Greene	32	13,130	1.54	1.18	7.06	121.1	31.79
Southern Indiana Gas & Elec Co Warrick.....	416	11,014	2.52	2.29	9.37	96.3	21.22
Indiana	416	11,014	2.52	2.29	9.37	96.3	21.22
Gibson	416	11,014	2.52	2.29	9.37	96.3	21.22
Southwestern Electric Power Co Flint Creek.....	2,506	8,493	.35	.41	4.77	138.1	23.46
Wyoming	2,506	8,493	.35	.41	4.77	138.1	23.46
Campbell	2,506	8,493	.35	.41	4.77	138.1	23.46
Southwestern Electric Power Co Pirkey.....	3,598	6,559	1.54	2.35	13.94	111.9	14.68
Texas	3,598	6,559	1.54	2.35	13.94	111.9	14.68
Harrison	3,598	6,559	1.54	2.35	13.94	111.9	14.68
Southwestern Electric Power Co Welsh Station.....	6,632	8,422	.40	.47	4.83	156.4	26.35
Wyoming	6,632	8,422	.40	.47	4.83	156.4	26.35
Campbell	6,620	8,422	.40	.47	4.83	156.4	26.34
Converse	12	8,708	.27	.31	6.05	153.5	26.73
Southwestern Public Service Co Harrington	4,592	9,049	.36	.39	5.46	124.3	22.49

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Southwestern Public Service Co Harrington							
Wyoming.....	4,592	9,049	0.36	0.39	5.46	124.3	22.49
Campbell.....	4,592	9,049	.36	.39	5.46	124.3	22.49
Southwestern Public Service Co Tolk	4,317	8,686	.35	.40	5.32	201.9	35.07
Wyoming.....	4,317	8,686	.35	.40	5.32	201.9	35.07
Campbell.....	4,317	8,686	.35	.40	5.32	201.9	35.07
Springfield City of (MO) James River	826	9,438	.49	.51	5.70	119.8	22.62
Illinois.....	179	12,008	.91	.76	6.43	149.4	35.87
Jefferson.....	179	12,008	.91	.76	6.43	149.4	35.87
Wyoming.....	647	8,729	.37	.42	5.50	108.6	18.96
Campbell.....	624	8,728	.37	.42	5.51	108.6	18.96
Converse.....	23	8,742	.38	.43	5.30	109.5	19.14
Springfield City of (MO) Southwest	789	8,760	.36	.42	5.39	103.7	18.17
Wyoming.....	789	8,760	.36	.42	5.39	103.7	18.17
Campbell.....	789	8,760	.36	.42	5.39	103.7	18.17
Springfield City of (IL) Dallman	1,000	10,426	3.03	2.90	9.30	116.6	24.32
Illinois.....	1,000	10,426	3.03	2.90	9.30	116.6	24.32
Logan.....	955	10,435	3.11	2.98	9.32	116.3	24.28
Macoupin.....	45	10,226	1.23	1.20	8.71	123.4	25.24
Springfield City of (IL) Lakeside	53	10,431	3.13	3.00	9.39	116.1	24.22
Illinois.....	53	10,431	3.13	3.00	9.39	116.1	24.22
Logan.....	53	10,431	3.13	3.00	9.39	116.1	24.22
St Joseph Light and Power Co Lakeroad	434	9,822	1.12	1.14	6.92	99.0	19.45
Illinois.....	132	10,984	2.91	2.65	9.90	118.6	26.06
Perry.....	132	10,984	2.91	2.65	9.90	118.6	26.06
Wyoming.....	302	9,315	.33	.36	5.62	88.9	16.57
Campbell.....	*	8,800	.30	.34	5.50	57.7	10.16
Carbon.....	68	11,092	.61	.55	6.01	113.2	25.11
Converse.....	234	8,802	.26	.29	5.50	80.1	14.10
Sunflower Electric Power Corp Holcomb Unit # 1	1,601	8,476	.30	.36	5.03	110.7	18.77
Wyoming.....	1,601	8,476	.30	.36	5.03	110.7	18.77
Campbell.....	1,601	8,476	.30	.36	5.03	110.7	18.77
Tacoma Dept of Public Utilities Steam No. 2	1	10,800	.73	.68	66.06	165.5	35.74
Washington.....	1	10,800	.73	.68	66.06	165.5	35.74
King.....	1	10,800	.73	.68	66.06	165.5	35.74
Tampa Electric Co Davant Transfer⁴	7,315	11,241	2.01	1.79	7.26	145.6	32.73
Illinois.....	3,736	11,999	2.41	2.01	8.58	154.4	37.06
Gallatin.....	964	12,668	2.71	2.14	9.23	128.8	32.63
Perry.....	1,120	10,967	2.98	2.71	9.08	204.1	44.76
Saline.....	1,649	12,309	1.84	1.50	7.86	139.9	34.45
Unknown ²	2	12,112	1.96	1.61	7.55	90.0	21.81
Indiana.....	30	10,864	3.03	2.79	10.20	125.2	27.20
Warrick.....	30	10,864	3.03	2.79	10.20	125.2	27.20
Kentucky.....	1,730	11,573	2.73	2.36	7.76	128.9	29.83
Henderson.....	691	11,227	2.63	2.34	8.61	127.8	28.69
Muhlenberg.....	65	11,556	2.74	2.37	9.40	130.2	30.09
Union.....	956	11,810	2.80	2.37	7.01	129.5	30.59
Webster.....	16	12,248	2.99	2.44	8.90	134.4	32.92
Unknown ²	2	13,009	2.29	1.76	8.20	85.8	22.32
West Virginia.....	158	13,214	2.25	1.70	7.56	137.5	36.33
Harrison.....	33	12,988	3.13	2.41	8.79	127.6	33.15
Marion.....	125	13,273	2.02	1.52	7.23	140.0	37.16
Wyoming.....	1,064	8,724	.40	.46	5.15	134.4	23.45
Campbell.....	1,064	8,724	.40	.46	5.15	134.4	23.45
Imported.....	597	9,515	.21	.22	1.09	157.1	29.89
Imported Coal.....	597	9,515	.21	.22	1.09	157.1	29.89
Tampa Electric Co Gannon	838	12,684	1.21	.96	7.83	242.6	61.55

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Tampa Electric Co Gannon							
Illinois	80	12,002	1.26	1.05	7.27	178.5	42.85
Saline	80	12,002	1.26	1.05	7.27	178.5	42.85
Kentucky	758	12,756	1.21	.95	7.89	248.9	63.51
Pike	548	12,866	1.26	.98	8.25	248.8	64.01
Whitley	210	12,468	1.08	.87	6.96	249.4	62.19
Tennessee Valley Authority Bull Run⁵							
Kentucky	2,080	12,595	1.46	1.16	9.62	113.8	28.67
Bell	473	12,792	1.61	1.26	9.16	118.3	30.27
Harlan	151	12,686	1.43	1.13	9.16	114.7	29.10
Knott	321	12,179	2.04	1.68	11.18	112.4	27.38
Leslie	995	12,688	1.13	.89	9.12	111.7	28.35
Pike	139	12,125	2.02	1.67	11.72	115.5	28.00
Tennessee Valley Authority Cahokia Transfer⁵							
Colorado	675	11,387	.46	.40	9.73	118.1	26.89
Delta	31	12,364	.46	.37	7.15	119.2	29.47
Gunnison	120	11,771	.42	.36	9.28	122.0	28.72
Routt	524	11,242	.47	.42	9.98	117.1	26.32
Tennessee Valley Authority Colbert⁵							
Illinois	9	12,389	2.21	1.78	8.48	100.1	24.80
Gallatin	9	12,389	2.21	1.78	8.48	100.1	24.80
Kentucky	1,439	12,035	1.77	1.47	12.12	110.9	26.68
Floyd	47	12,173	.86	.71	9.78	129.8	31.61
Pike	220	12,108	.90	.74	10.39	124.1	30.04
Webster	1,171	12,016	1.97	1.64	12.54	107.6	25.85
Tennessee	55	12,218	.74	.61	12.59	132.9	32.47
Sequatchie	55	12,218	.74	.61	12.59	132.9	32.47
West Virginia	64	11,666	.69	.59	13.92	139.7	32.60
Mingo	64	11,666	.69	.59	13.92	139.7	32.60
Tennessee Valley Authority Cora Transfer⁵							
Colorado	171	11,496	.54	.47	10.65	112.7	25.92
Delta	54	12,060	.58	.48	8.50	115.3	27.81
Routt	117	11,236	.52	.46	11.64	111.4	25.04
Utah	1,446	11,917	.58	.49	9.47	123.6	29.46
Carbon	983	12,161	.62	.51	9.11	122.4	29.76
Sevier	463	11,400	.50	.44	10.23	126.4	28.82
Wyoming	1,238	8,793	.32	.37	5.23	86.3	15.18
Campbell	1,084	8,799	.32	.36	5.17	85.9	15.12
Converse	154	8,753	.36	.41	5.70	88.8	15.55
Tennessee Valley Authority Cumberland⁵							
Illinois	451	12,284	2.87	2.34	9.51	109.7	26.95
Gallatin	319	12,600	2.83	2.25	9.80	106.8	26.90
Randolph	38	11,000	3.10	2.82	10.00	109.9	24.19
Saline	10	12,000	1.70	1.42	8.00	114.7	27.54
White	84	11,702	3.07	2.63	8.36	121.0	28.32
Kentucky	5,462	11,587	2.93	2.52	9.12	108.4	25.11
Hopkins	44	11,800	3.15	2.67	9.50	103.8	24.51
Knott	20	12,409	2.67	2.15	10.87	108.6	26.96
Union	5,113	11,537	2.91	2.52	9.13	107.9	24.89
Webster	285	12,405	3.23	2.60	8.67	117.0	29.03
Pennsylvania	623	13,193	2.13	1.61	7.75	108.4	28.61
Greene	623	13,193	2.13	1.61	7.75	108.4	28.61
Tennessee Valley Authority Gallatin⁵							
Illinois	34	12,788	2.48	1.94	8.18	111.9	28.62
Gallatin	34	12,788	2.48	1.94	8.18	111.9	28.62
Kentucky	45	12,604	2.95	2.34	7.98	123.2	31.07
Webster	45	12,604	2.95	2.34	7.98	123.2	31.07
Tennessee Valley Authority GRT Terminal⁵							
	6,773	10,963	1.37	1.25	8.17	104.6	22.93

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Tennessee Valley Authority GRT Terminal⁵							
Colorado.....	1,173	11,734	0.49	0.42	8.96	117.4	27.55
Delta.....	383	12,141	.47	.39	7.55	114.9	27.89
Gunnison.....	293	11,796	.56	.47	9.33	120.9	28.52
Routt.....	497	11,385	.48	.42	9.83	117.3	26.71
Illinois.....	1,041	12,165	2.07	1.70	8.90	107.1	26.06
Gallatin.....	365	12,867	2.58	2.00	8.53	103.1	26.53
Jefferson.....	215	11,795	1.02	.87	7.38	118.1	27.85
Saline.....	462	11,782	2.15	1.83	9.91	105.5	24.86
Kentucky.....	2,343	12,091	2.46	2.03	9.86	104.0	25.14
Christian.....	150	11,381	2.83	2.49	11.27	111.6	25.40
Floyd.....	7	12,019	.83	.69	9.51	121.7	29.25
Hopkins.....	681	11,844	2.80	2.36	9.45	103.3	24.47
Webster.....	1,506	12,273	2.28	1.86	9.91	103.5	25.39
Pennsylvania.....	15	12,000	1.20	1.00	12.00	137.7	33.05
Greene.....	15	12,000	1.20	1.00	12.00	137.7	33.05
West Virginia.....	12	11,700	.70	.60	13.80	123.4	28.87
Mingo.....	12	11,700	.70	.60	13.80	123.4	28.87
Wyoming.....	2,189	8,759	.33	.38	5.52	94.2	16.49
Campbell.....	1,685	8,749	.35	.40	5.47	94.2	16.48
Converse.....	504	8,794	.28	.31	5.71	94.0	16.53
Tennessee Valley Authority Johnsonville⁵	2,316	12,204	1.73	1.42	8.80	112.2	27.38
Illinois.....	1,389	12,286	1.71	1.39	7.34	107.3	26.37
Gallatin.....	746	12,393	1.72	1.38	7.33	99.7	24.70
Jefferson.....	136	11,587	1.67	1.44	7.25	124.9	28.95
Saline.....	506	12,315	1.72	1.40	7.39	114.2	28.13
Kentucky.....	928	12,083	1.76	1.46	10.99	119.6	28.91
Breathitt.....	50	11,800	1.90	1.61	12.42	137.7	32.50
Pike.....	304	12,231	1.74	1.42	9.64	132.2	32.35
Webster.....	574	12,029	1.76	1.46	11.58	111.3	26.78
Tennessee Valley Authority Kingston⁵	4,316	12,494	1.38	1.11	9.60	122.6	30.64
Kentucky.....	2,576	12,557	1.37	1.09	9.48	124.7	31.32
Bell.....	1,536	12,538	1.44	1.15	9.54	125.2	31.38
Harlan.....	461	12,559	1.32	1.05	9.32	119.9	30.12
Knott.....	83	11,936	1.50	1.25	12.70	136.9	32.69
Leslie.....	312	12,841	1.27	.99	8.78	120.2	30.88
Perry.....	111	12,260	1.19	.97	9.86	133.7	32.79
Pike.....	36	12,800	.75	.59	9.00	155.1	39.70
Whitley.....	37	12,972	1.28	.98	7.16	122.7	31.83
Tennessee.....	1,476	12,333	1.44	1.17	9.65	116.9	28.84
Anderson.....	1,104	12,200	1.50	1.23	10.00	114.5	27.93
Cumberland.....	37	12,500	1.02	.82	11.00	117.0	29.25
Morgan.....	7	13,000	1.60	1.23	8.00	115.7	30.07
Scott.....	328	12,748	1.28	1.00	8.34	124.8	31.82
Virginia.....	244	12,850	1.17	.91	10.41	132.4	34.02
Lee.....	38	12,300	.88	.72	10.00	138.6	34.10
Wise.....	206	12,952	1.23	.95	10.49	131.3	34.01
West Virginia.....	20	12,000	.72	.60	12.00	144.7	34.74
Mingo.....	20	12,000	.72	.60	12.00	144.7	34.74
Tennessee Valley Authority Paradise⁵	6,347	10,645	4.23	3.97	18.46	96.1	20.47
Kentucky.....	6,347	10,645	4.23	3.97	18.46	96.1	20.47
Christian.....	945	10,307	4.41	4.28	16.66	92.3	19.02
Hopkins.....	1,722	10,603	3.42	3.22	16.48	99.8	21.16
McLean.....	119	11,000	4.25	3.86	19.60	88.0	19.37
Muhlenberg.....	2,360	10,185	5.07	4.98	22.93	92.1	18.77
Webster.....	1,201	11,840	3.58	3.02	13.80	101.6	24.05
Tennessee Valley Authority Sevier⁵	2,068	12,706	1.54	1.21	10.38	128.2	32.58
Kentucky.....	387	12,526	1.31	1.04	11.27	125.4	31.41
Bell.....	96	12,494	2.24	1.80	11.03	121.6	30.40
Harlan.....	291	12,536	1.00	.80	11.35	126.6	31.74
Virginia.....	1,681	12,748	1.60	1.25	10.17	128.8	32.85
Lee.....	916	12,728	1.34	1.05	9.29	133.2	33.89
Wise.....	765	12,772	1.91	1.49	11.23	123.7	31.60

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Tennessee Valley Authority Shawnee⁵	3,599	11,563	0.71	0.61	9.24	125.1	28.93
Colorado.....	2,841	11,738	.52	.44	9.31	127.7	29.98
Delta.....	400	12,264	.50	.41	8.21	130.8	32.09
Gunnison.....	1,745	11,791	.55	.46	9.36	127.9	30.17
Routt.....	696	11,301	.47	.42	9.81	125.3	28.31
Illinois.....	246	11,786	2.43	2.06	10.45	100.7	23.74
Saline.....	246	11,786	2.43	2.06	10.45	100.7	23.74
Kentucky.....	176	11,900	1.83	1.53	10.62	131.9	31.39
Knott.....	23	11,800	.70	.59	13.50	155.1	36.60
Magoffin.....	7	12,866	.73	.57	7.62	151.6	39.02
Ohio.....	85	11,341	3.07	2.71	9.82	111.1	25.20
Perry.....	60	12,613	.62	.49	11.03	147.6	37.24
Utah.....	22	12,352	.62	.50	10.00	138.8	34.29
Carbon.....	22	12,352	.62	.50	10.00	138.8	34.29
West Virginia.....	70	12,266	.71	.58	12.39	153.3	37.60
Boone.....	30	12,450	.76	.61	12.00	154.2	38.40
Kanawha.....	15	12,000	.73	.61	13.00	156.9	37.65
Logan.....	24	12,201	.63	.52	12.50	149.9	36.58
Wyoming.....	245	8,807	.31	.35	5.35	97.7	17.21
Campbell.....	167	8,806	.33	.37	5.20	98.1	17.28
Converse.....	78	8,807	.28	.32	5.66	96.9	17.06
Tennessee Valley Authority Widows Creek⁵	3,211	12,109	2.39	1.97	11.08	122.4	29.65
Illinois.....	423	12,127	3.04	2.51	9.23	111.7	27.10
Gallatin.....	224	12,550	3.02	2.40	10.25	109.8	27.56
Randolph.....	34	10,859	2.92	2.69	9.20	117.5	25.51
White.....	165	11,813	3.09	2.62	7.85	113.4	26.80
Indiana.....	61	11,368	3.56	3.13	8.45	110.0	25.01
Pike.....	61	11,368	3.56	3.13	8.45	110.0	25.01
Kentucky.....	1,495	11,948	2.44	2.04	10.39	122.1	29.18
Christian.....	3	11,000	3.94	3.58	13.00	105.5	23.20
Harlan.....	36	13,056	.85	.65	7.21	132.0	34.47
Hopkins.....	419	11,453	3.45	3.01	11.98	107.4	24.60
Knott.....	63	12,000	.84	.70	12.15	144.1	34.57
Magoffin.....	53	12,797	.78	.61	9.52	145.4	37.22
Perry.....	172	12,667	.84	.66	8.79	144.2	36.52
Pike.....	182	11,919	.80	.67	12.21	131.5	31.35
Union.....	273	11,943	2.78	2.32	6.07	114.4	27.32
Webster.....	294	11,965	3.46	2.89	12.09	119.6	28.62
Pennsylvania.....	39	13,269	2.16	1.63	7.49	112.4	29.84
Greene.....	39	13,269	2.16	1.63	7.49	112.4	29.84
Tennessee.....	498	12,400	.89	.72	14.50	137.3	34.04
Sequatchie.....	498	12,400	.89	.72	14.50	137.3	34.04
Virginia.....	35	12,510	.84	.67	9.28	138.7	34.69
Wise.....	35	12,510	.84	.67	9.28	138.7	34.69
West Virginia.....	660	12,220	2.97	2.43	11.78	119.3	29.16
Boone.....	98	12,234	.76	.62	11.98	131.8	32.26
Mingo.....	50	11,953	.82	.68	13.55	134.9	32.25
Monongalia.....	458	12,225	3.92	3.21	11.51	110.7	27.06
Nicholas.....	54	12,400	.88	.71	12.00	155.4	38.53
Texas Municipal Power Agency Gibbons Creek	1,620	8,506	.31	.37	5.40	119.4	20.32
Wyoming.....	1,620	8,506	.31	.37	5.40	119.4	20.32
Campbell.....	1,442	8,468	.31	.37	5.36	119.3	20.21
Converse.....	179	8,811	.31	.35	5.77	120.2	21.19
Texas-New Mexico Power Co TNP 1	1,761	6,837	.87	1.27	15.27	142.7	19.52
Texas.....	1,761	6,837	.87	1.27	15.27	142.7	19.52
Robertson.....	1,761	6,837	.87	1.27	15.27	142.7	19.52
Texas Utilities Electric Co Big Brown	5,022	6,671	.73	1.10	15.31	113.2	15.11
Texas.....	5,022	6,671	.73	1.10	15.31	113.2	15.11
Freestone.....	5,022	6,671	.73	1.10	15.31	113.2	15.11
Texas Utilities Electric Co Martin Lake	13,424	6,666	1.26	1.89	11.76	83.2	11.09

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Texas Utilities Electric Co Martin Lake							
Texas	13,424	6,666	1.26	1.89	11.76	83.2	11.09
Panola	13,424	6,666	1.26	1.89	11.76	83.2	11.09
Texas Utilities Electric Co Monticello.....							
Texas	11,466	6,437	.48	.74	16.20	118.9	15.31
Titus	9,815	6,052	.50	.82	18.09	121.4	14.69
Wyoming.....	9,815	6,052	.50	.82	18.09	121.4	14.69
Wyoming.....	1,651	8,726	.36	.41	4.96	108.7	18.96
Campbell.....	1,651	8,726	.36	.41	4.96	108.7	18.96
Texas Utilities Electric Co Sandow No 4⁶.....							
Texas	3,368	6,685	1.20	1.80	16.22	104.6	13.99
Milam.....	3,368	6,685	1.20	1.80	16.22	104.6	13.99
Milam.....	3,368	6,685	1.20	1.80	16.22	104.6	13.99
Toledo Edison Co Bay Shore							
Kentucky	1,730	9,507	.40	.42	5.91	127.1	24.16
Carter	114	12,740	.78	.61	8.88	134.6	34.30
Martin	11	12,458	.88	.71	8.60	127.4	31.74
Pike	66	12,888	.72	.56	7.98	140.2	36.14
West Virginia.....	37	12,560	.87	.69	10.60	126.4	31.75
Boone	214	12,923	.76	.59	8.92	152.6	39.44
Mingo	33	12,463	.89	.72	9.23	143.6	35.80
Wyoming.....	181	13,007	.74	.57	8.87	154.1	40.10
Campbell.....	1,402	8,722	.32	.36	5.21	120.4	21.00
Converse.....	1,320	8,726	.32	.36	5.24	120.4	21.01
Converse.....	82	8,644	.27	.32	4.70	120.7	20.87
Tri-State G & T Assn, Inc. Craig							
Colorado.....	4,545	10,139	.39	.39	6.29	109.0	22.10
Moffat	4,545	10,139	.39	.39	6.29	109.0	22.10
Moffat	4,545	10,139	.39	.39	6.29	109.0	22.10
Tri-State G & T Assn, Inc. Nucla							
Colorado.....	317	10,907	.85	.78	18.91	103.1	22.50
Montrose.....	317	10,907	.85	.78	18.91	103.1	22.50
Montrose.....	317	10,907	.85	.78	18.91	103.1	22.50
Tucson Electric Power Co Irvington.....							
Colorado.....	209	11,184	.47	.42	9.98	195.7	43.76
Routt	198	11,270	.47	.41	9.68	191.5	43.16
New Mexico.....	198	11,270	.47	.41	9.68	191.5	43.16
Mckinley.....	10	9,553	.45	.47	15.62	289.2	55.25
Mckinley.....	10	9,553	.45	.47	15.62	289.2	55.25
Tucson Electric Power Co Springerville.....							
New Mexico.....	3,199	9,322	.79	.84	16.96	137.4	25.61
Mckinley.....	3,199	9,322	.79	.84	16.96	137.4	25.61
Mckinley.....	3,199	9,322	.79	.84	16.96	137.4	25.61
Union Electric Co Labadie							
Illinois	8,270	8,851	.35	.39	5.12	92.5	16.38
Jefferson.....	317	10,892	2.52	2.31	9.52	115.7	25.21
Macoupin.....	29	11,650	1.02	.88	7.40	126.3	29.43
Perry.....	64	10,300	1.40	1.36	8.40	127.2	26.20
Randolph.....	166	10,950	3.00	2.74	10.00	111.1	24.34
Wyoming.....	58	11,000	3.11	2.83	10.42	111.5	24.52
Campbell.....	7,953	8,769	.26	.30	4.95	91.4	16.02
Converse.....	5,370	8,757	.28	.31	4.77	92.3	16.17
Converse.....	2,583	8,795	.23	.26	5.31	89.3	15.71
Union Electric Co Meramec.....							
Colorado.....	1,467	10,195	.63	.62	6.06	119.4	24.34
Gunnison.....	30	11,750	.63	.54	8.50	136.9	32.17
Illinois	30	11,750	.63	.54	8.50	136.9	32.17
Jefferson.....	532	11,818	1.18	.99	7.32	132.4	31.28
Saline	210	12,000	1.00	.83	7.50	127.6	30.63
Indiana.....	322	11,700	1.29	1.10	7.20	135.5	31.71
Warrick	148	11,100	.67	.60	9.00	130.5	28.97
Wyoming.....	148	11,100	.67	.60	9.00	130.5	28.97
Campbell.....	757	8,816	.24	.27	4.51	103.5	18.25
Campbell.....	757	8,816	.24	.27	4.51	103.5	18.25
Union Electric Co Rush Island							
	4,823	8,521	.31	.37	5.12	90.0	15.34

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Union Electric Co Rush Island							
Wyoming.....	4,823	8,521	0.31	0.37	5.12	90.0	15.34
Campbell.....	4,823	8,521	.31	.37	5.12	90.0	15.34
Union Electric Co Sioux	3,057	9,245	.61	.66	5.75	98.8	18.26
Illinois.....	497	11,475	2.15	1.88	9.55	136.0	31.20
Jefferson.....	248	11,500	1.27	1.10	10.10	143.5	33.02
Perry.....	83	10,950	3.00	2.74	10.00	135.4	29.65
White.....	166	11,700	3.05	2.61	8.50	125.1	29.26
Wyoming.....	2,560	8,813	.31	.35	5.02	89.4	15.75
Campbell.....	2,255	8,814	.32	.37	4.98	89.5	15.78
Converse.....	305	8,800	.22	.25	5.30	88.5	15.58
United Illuminating Co Bridgeport Harbor	657	13,138	.53	.40	6.80	181.1	47.59
Kentucky.....	456	13,115	.50	.38	7.03	183.3	48.09
Pike.....	456	13,115	.50	.38	7.03	183.3	48.09
West Virginia.....	95	13,308	.61	.46	7.17	181.6	48.34
Wyoming.....	95	13,308	.61	.46	7.17	181.6	48.34
Imported.....	106	13,084	.60	.46	5.47	171.0	44.75
Imported Coal.....	106	13,084	.60	.46	5.47	171.0	44.75
United Power Assn Stanton	917	6,720	.74	1.10	7.90	71.7	9.64
North Dakota.....	917	6,720	.74	1.10	7.90	71.7	9.64
Mercer.....	917	6,720	.74	1.10	7.90	71.7	9.64
UtiliCorp United Inc Sibley	1,606	9,614	.38	.39	5.87	90.1	17.33
Wyoming.....	1,606	9,614	.38	.39	5.87	90.1	17.33
Campbell.....	905	8,976	.23	.25	4.58	76.5	13.73
Carbon.....	702	10,436	.57	.54	7.53	105.2	21.96
Vineland City of H M Down	26	12,868	.78	.61	6.21	192.2	49.48
Pennsylvania.....	*	12,870	.78	.61	6.21	192.2	49.47
Unknown ²	*	12,870	.78	.61	6.21	192.2	49.47
West Virginia.....	26	12,868	.78	.61	6.21	192.2	49.48
Nicholas.....	26	12,868	.78	.61	6.21	192.2	49.48
Virginia Electric & Power Co Breomo Bluff	551	12,114	.83	.69	11.22	140.3	33.99
Kentucky.....	55	12,777	1.24	.97	7.60	139.0	35.52
Letcher.....	45	12,954	1.07	.83	7.05	139.5	36.13
Magoffin.....	10	12,000	2.00	1.67	10.00	136.9	32.86
Virginia.....	7	12,500	1.20	.96	10.40	153.7	38.42
Buchanan.....	7	12,500	1.20	.96	10.40	153.7	38.42
West Virginia.....	489	12,034	.78	.65	11.64	140.2	33.75
Boone.....	66	12,748	.79	.62	8.31	139.5	35.57
Logan.....	407	11,949	.77	.64	11.97	140.5	33.59
Nicholas.....	7	12,000	1.25	1.04	13.30	135.8	32.59
Raleigh.....	9	10,700	1.10	1.03	19.60	134.9	28.87
Virginia Electric & Power Co Chesapeake Energy	1,633	12,839	.97	.75	8.72	142.8	36.66
Virginia.....	1,633	12,839	.97	.75	8.72	142.8	36.66
Buchanan.....	8	12,647	1.00	.79	10.55	142.4	36.02
Dickenson.....	6	12,050	.83	.69	11.60	141.3	34.05
Russell.....	10	13,000	1.05	.81	7.70	143.9	37.41
Wise.....	1,610	12,842	.97	.75	8.71	142.8	36.66
Virginia Electric & Power Co Clover	2,375	12,538	1.07	.86	10.37	125.9	31.56
Kentucky.....	73	11,588	1.39	1.20	13.28	123.3	28.57
Letcher.....	6	12,389	1.08	.87	10.60	129.1	31.99
Martin.....	55	11,413	1.40	1.22	14.37	122.2	27.88
Pike.....	12	12,000	1.50	1.25	9.60	125.1	30.03
Virginia.....	2,273	12,573	1.06	.85	10.26	125.8	31.64
Buchanan.....	39	12,500	.88	.70	10.82	131.4	32.86
Dickenson.....	27	12,050	.85	.70	11.56	127.3	30.67
Wise.....	2,206	12,580	1.07	.85	10.23	125.7	31.63
West Virginia.....	29	12,225	1.00	.82	11.58	135.6	33.16
Boone.....	10	12,100	1.00	.83	10.70	143.6	34.75
Logan.....	10	12,100	1.20	.99	13.00	134.8	32.62
Mingo.....	9	12,500	.79	.63	11.00	128.0	32.00

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Virginia Electric & Power Co Chesterfield	2,974	12,733	1.06	0.83	8.41	139.8	35.60
Kentucky	2,005	12,855	1.18	.92	7.53	140.1	36.03
Knott	495	12,721	1.16	.91	8.41	140.5	35.75
Letcher	1,205	13,023	1.17	.90	6.68	140.3	36.55
Pike	304	12,410	1.23	.99	9.46	138.6	34.41
Virginia	97	12,744	1.12	.88	8.72	150.8	38.43
Buchanan	36	12,500	1.32	1.06	9.60	148.7	37.18
Lee	10	12,300	.85	.69	10.00	152.2	37.44
Wise	51	13,000	1.03	.79	7.86	151.9	39.50
West Virginia	872	12,452	.80	.64	10.41	137.7	34.30
Boone	440	12,729	.78	.61	8.70	139.3	35.46
Logan	312	12,050	.83	.69	12.79	135.0	32.54
Nicholas	121	12,484	.79	.63	10.50	138.8	34.64
Virginia Electric & Power Co Mount Storm	4,920	12,165	1.66	1.37	15.47	113.1	27.51
Maryland	3,061	12,159	1.72	1.41	15.95	108.6	26.41
Allegany	136	11,878	1.58	1.33	16.24	114.8	27.26
Garrett	2,925	12,172	1.73	1.42	15.94	108.3	26.37
Pennsylvania	274	12,412	1.57	1.27	14.52	121.1	30.06
Somerset	274	12,412	1.57	1.27	14.52	121.1	30.06
West Virginia	1,585	12,134	1.57	1.30	14.72	120.3	29.20
Grant	1,318	12,151	1.61	1.32	14.52	121.1	29.42
Preston	46	12,938	1.54	1.19	9.08	116.0	30.02
Upshur	220	11,863	1.38	1.16	17.12	116.8	27.72
Virginia Electric & Power Co Possum Point	899	12,144	.86	.70	11.25	142.3	34.57
Kentucky	113	12,764	1.15	.90	8.14	145.4	37.13
Knott	71	12,800	1.12	.88	8.00	146.0	37.37
Laurel	1	12,200	.74	.61	9.00	146.7	35.79
Letcher	33	12,853	1.17	.91	7.94	145.7	37.44
Pike	9	12,200	1.39	1.14	9.90	140.0	34.16
Virginia	68	12,543	1.30	1.04	9.78	151.8	38.09
Buchanan	55	12,459	1.29	1.04	9.90	150.9	37.60
Wise	13	12,899	1.33	1.03	9.29	155.6	40.15
West Virginia	719	12,009	.77	.64	11.88	140.9	33.84
Boone	43	12,304	.75	.61	9.76	139.7	34.38
Logan	571	11,892	.78	.66	12.48	140.3	33.38
Nicholas	98	12,500	.64	.51	9.60	144.2	36.05
Preston	7	12,900	1.30	1.01	7.80	144.5	37.28
Virginia Electric & Power Co Yorktown	731	12,712	1.44	1.13	7.75	147.3	37.45
Kentucky	543	12,758	1.49	1.17	7.29	146.4	37.35
Knott	114	12,000	1.62	1.35	10.80	142.8	34.26
Letcher	309	13,314	1.27	.95	4.95	148.5	39.53
Magoffin	110	12,000	2.00	1.67	10.00	142.6	34.22
Pike	10	12,500	1.00	.80	10.00	158.5	39.62
Pennsylvania	17	13,150	1.52	1.16	5.50	148.3	39.00
Greene	17	13,150	1.52	1.16	5.50	148.3	39.00
Virginia	160	12,498	1.31	1.05	9.59	150.9	37.73
Buchanan	153	12,477	1.32	1.06	9.64	151.0	37.67
Wise	7	13,000	1.17	.90	8.60	150.3	39.08
West Virginia	11	12,900	.78	.60	7.00	139.4	35.97
Boone	11	12,900	.78	.60	7.00	139.4	35.97
West Penn Power Co Armstrong	965	12,564	1.90	1.51	9.96	107.8	27.09
Pennsylvania	965	12,564	1.90	1.51	9.96	107.8	27.09
Armstrong	728	12,582	2.05	1.63	9.75	106.1	26.70
Clarion	17	12,302	1.92	1.56	10.34	106.8	26.28
Jefferson	220	12,526	1.38	1.10	10.62	113.4	28.42
West Penn Power Co Hatfield	3,391	12,924	2.19	1.70	9.14	140.3	36.27
Pennsylvania	1,498	12,914	2.17	1.68	9.16	140.5	36.29
Greene	1,498	12,914	2.17	1.68	9.16	140.5	36.29
West Virginia	1,893	12,932	2.21	1.71	9.12	140.2	36.26
Harrison	172	13,012	2.24	1.72	8.81	140.5	36.57
Marion	409	12,940	2.26	1.74	9.16	139.7	36.15
Marshall	88	12,870	2.10	1.63	9.22	140.6	36.18
Monongalia	1,224	12,922	2.19	1.70	9.15	140.3	36.27

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
West Penn Power Co Mitchell	665	12,274	3.42	2.79	10.65	128.1	31.45
West Virginia.....	665	12,274	3.42	2.79	10.65	128.1	31.45
Marshall.....	637	12,253	3.43	2.80	10.64	128.2	31.42
Monongalia.....	28	12,764	3.14	2.46	10.83	125.6	32.06
West Texas Utilities Co Oklaunion	3,113	8,467	.39	.46	5.17	125.5	21.25
Wyoming.....	3,113	8,467	.39	.46	5.17	125.5	21.25
Campbell.....	3,113	8,467	.39	.46	5.17	125.5	21.25
Western Farmers Elec Coop Inc Hugo	1,705	8,726	.36	.41	5.35	99.5	17.37
Wyoming.....	1,705	8,726	.36	.41	5.35	99.5	17.37
Campbell.....	1,705	8,726	.36	.41	5.35	99.5	17.37
Wisconsin Electric Power Co Oak Creek	2,573	10,853	.74	.68	7.43	126.7	27.51
New Mexico.....	454	12,092	.59	.49	14.37	152.8	36.96
Colfax.....	454	12,092	.59	.49	14.37	152.8	36.96
Pennsylvania.....	875	13,113	1.53	1.17	6.87	145.5	38.16
Greene.....	875	13,113	1.53	1.17	6.87	145.5	38.16
Wyoming.....	1,244	8,811	.24	.27	5.29	94.0	16.57
Campbell.....	152	8,884	.20	.23	4.40	92.7	16.46
Converse.....	1,092	8,801	.25	.28	5.42	94.2	16.58
Wisconsin Electric Power Co Pleasant Prairie	4,741	8,449	.33	.39	5.14	73.8	12.48
Wyoming.....	4,741	8,449	.33	.39	5.14	73.8	12.48
Campbell.....	4,728	8,448	.33	.39	5.14	73.8	12.47
Converse.....	12	8,714	.22	.25	5.60	77.7	13.54
Wisconsin Electric Power Co Port Washington	594	13,169	1.30	.99	7.07	138.7	36.52
Colorado.....	35	11,828	.52	.44	10.13	139.1	32.91
Gunnison.....	18	12,392	.58	.47	10.59	132.7	32.89
Routt.....	17	11,241	.45	.40	9.65	146.5	32.94
Pennsylvania.....	559	13,252	1.35	1.02	6.88	138.6	36.74
Greene.....	17	13,249	1.42	1.07	7.20	137.5	36.43
Washington.....	542	13,252	1.35	1.02	6.87	138.7	36.75
Wisconsin Electric Power Co Presque Isle	1,801	10,154	.44	.44	6.73	125.4	25.47
Colorado.....	618	12,083	.54	.45	9.06	140.5	33.94
Gunnison.....	618	12,083	.54	.45	9.06	140.5	33.94
Montana.....	708	9,056	.41	.46	5.74	122.5	22.19
Big Horn.....	497	9,073	.38	.42	5.46	122.3	22.19
Rosebud.....	212	9,017	.50	.55	6.40	123.1	22.20
West Virginia.....	21	13,383	.68	.51	5.37	168.3	45.05
Nicholas.....	21	13,383	.68	.51	5.37	168.3	45.05
Wyoming.....	454	9,091	.34	.37	5.15	99.8	18.14
Campbell.....	68	9,073	.50	.55	6.26	110.6	20.07
Carbon.....	13	9,583	.38	.40	5.32	119.6	22.92
Converse.....	374	9,077	.31	.34	4.94	97.1	17.62
Wisconsin Electric Power Co Valley	706	13,120	1.60	1.22	7.27	150.5	39.49
Colorado.....	33	12,451	.61	.49	10.06	143.7	35.77
Gunnison.....	33	12,451	.61	.49	10.06	143.7	35.77
Pennsylvania.....	673	13,153	1.64	1.25	7.13	150.8	39.67
Greene.....	673	13,153	1.64	1.25	7.13	150.8	39.67
Wisconsin Power & Light Co Columbia	4,572	8,496	.41	.48	5.76	95.1	16.16
Montana.....	661	8,797	.76	.87	8.27	100.7	17.71
Rosebud.....	661	8,797	.76	.87	8.27	100.7	17.71
Wyoming.....	3,911	8,446	.35	.41	5.33	94.1	15.90
Campbell.....	3,911	8,446	.35	.41	5.33	94.1	15.90
Wisconsin Power & Light Co Edgewater	2,884	8,656	.35	.41	5.36	119.9	20.76
Wyoming.....	2,884	8,656	.35	.41	5.36	119.9	20.76
Campbell.....	2,720	8,528	.34	.40	5.33	117.6	20.07
Carbon.....	164	10,783	.62	.58	5.86	149.6	32.26
Wisconsin Power & Light Co Nelson Dewey	540	9,447	.37	.39	4.34	121.5	22.95

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 24. Origin of Coal Received by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant Origin State County	Quantity (thousand short tons)	Average Quality				Average Delivered Cost	
		Btu (per pound)	Sulfur (percent by weight)	Sulfur (pounds per MM Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per short ton)
Wisconsin Power & Light Co Nelson Dewey							
Illinois	24	12,075	0.90	0.74	5.52	145.5	35.15
Jefferson	24	12,075	.90	.74	5.52	145.5	35.15
Montana	516	9,323	.34	.37	4.28	120.0	22.38
Big Horn	516	9,323	.34	.37	4.28	120.0	22.38
Wisconsin Power & Light Co Rock River							
Illinois	370	9,635	.40	.42	4.41	127.5	24.57
Illinois	38	12,137	.82	.67	5.73	167.4	40.64
Jefferson	38	12,137	.82	.67	5.73	167.4	40.64
Montana	332	9,346	.36	.38	4.25	121.5	22.72
Big Horn	332	9,346	.36	.38	4.25	121.5	22.72
Wisconsin Public Service Corp Pulliam							
Wyoming	1,479	8,866	.19	.22	4.39	97.2	17.23
Wyoming	1,479	8,866	.19	.22	4.39	97.2	17.23
Campbell	1,479	8,866	.19	.22	4.39	97.2	17.23
Wisconsin Public Service Corp Weston							
Wyoming	2,086	8,831	.26	.29	4.75	107.5	18.99
Wyoming	2,086	8,831	.26	.29	4.75	107.5	18.99
Campbell	2,086	8,831	.26	.29	4.75	107.5	18.99
Wyandotte Municipal Serv Comm Wyandotte							
Ohio	111	12,506	1.13	.90	11.06	141.6	35.41
Ohio	14	12,416	2.29	1.84	10.47	148.7	36.93
Stark	7	12,167	2.43	2.00	10.17	149.5	36.38
Tuscarawas	7	12,679	2.14	1.69	10.79	147.9	37.50
West Virginia	96	12,536	.96	.76	11.14	140.6	35.24
Boone	4	12,457	.97	.78	11.89	153.4	38.23
Clay	43	12,608	1.26	1.00	10.71	137.3	34.62
Kanawha	49	12,478	.69	.55	11.46	142.5	35.56
Wyoming	*	8,852	.32	.36	11.96	126.9	22.47
Campbell	*	8,852	.32	.36	11.96	126.9	22.47
Total	929,448	10,241	1.06	1.04	9.18	125.2	25.64

¹ Most coal destined for the Barry plant is reported by the Alabama Power Company as it is received at the Gorgas Transshipping facility.

² Refers to coal in which the county of origin is not known.

³ The cost reported under IMT Transfer (Louisiana) is the weighted average cost of coal delivered to this facility. Florida Power Corporation incurs additional costs for transporting coal from this transfer facility to the Crystal River power plant. This cost is not included in data shown in this report. When aggregated at the State level, data for this transfer facility are shown as though the coal were delivered to Florida.

⁴ The Tampa Electric Company reports coal destined for the Big Bend power plant as it is received at this facility located in Louisiana. The cost reported under Davant Transfer is the weighted average cost of coal delivered to this facility. The Tampa Electric Company incurs additional costs for transporting coal from Davant to the Big Bend power plant located in Florida. These costs are not included in data shown in this report. When aggregated at the State level, data for this transfer facility are shown as though the coal were delivered to Florida.

⁵ Coal reported as delivered to the Cahokia, Cora, and GRT transfer facilities is later transferred to individual electric plants located in Alabama, Kentucky, and Tennessee. The cost of transportation from these facilities to the electric plants is not included in the costs shown in this report. Coal delivered to Cahokia is later transferred primarily to the Colbert and Widows Creek plants in Alabama. Approximately 90 percent of the coal delivered to the Cora facility is transferred to the Allen plant. Most of the remaining coal is transferred to the Paradise plant. All coal delivered to the Cora facility is shown in this report as being delivered to Tennessee. Approximately 60 percent of the coal delivered to the GRT facility is later delivered to the Gallatin plant. Widdows Creek, Johnsonville, Paradise, and Cumberland each receive approximately 8 percent. Colbert and Shawnee each receive approximately 4 percent. All coal delivered to GRT is shown in this report as being delivered to Tennessee.

⁶ Data for Sandow No. 4 include lignite delivered for the Aluminium Company of America (ALCOA) portion of Unit 4.

* = Number less than 0.5.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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 Utility and Plant Level

Table 25. The Top 20 Electric Utilities, Ranked by Receipts of Coal, 1998

Electric Utility	Receipts (thousand short tons)	Average Delivered Cost		Total Coal Bill (million dollars)
		(cents per million Btu)	(dollars per short ton)	
1. Tennessee Valley Authority.....	42,422	112.2	26.00	1,103.1
2. Texas Utilities Electric Co.....	33,280	102.0	13.44	447.4
3. PacifiCorp.....	31,484	100.1	18.83	592.8
4. Georgia Power Co.....	30,903	154.8	36.40	1,125.0
5. Alabama Power Co.....	23,958	168.3	38.28	917.1
6. Detroit Edison Co.....	22,811	128.7	26.61	606.9
7. Houston Lighting & Power Co.....	20,141	145.4	22.35	450.2
8. Pennsylvania Electric Co.....	19,091	118.1	28.59	545.9
9. Union Electric Co.....	17,617	95.5	17.08	301.0
10. Basin Electric Power Coop.....	17,198	59.8	8.90	153.0
11. PSI Energy Inc.....	16,331	109.9	24.44	399.1
12. Duke Power Co.....	16,299	140.5	34.96	569.8
13. Commonwealth Edison Co.....	15,626	222.6	39.43	616.1
14. Ohio Power Co.....	14,258	168.3	39.40	561.8
15. Virginia Electric & Power.....	14,082	129.2	32.18	453.2
16. Northern States Power Co.....	13,406	104.2	18.36	246.2
17. Southwestern Electric Power.....	12,736	142.1	22.48	286.3
18. Appalachian Power Co.....	12,419	139.0	34.04	422.7
19. Carolina Power & Light.....	12,369	148.4	36.63	453.1
20. Arizona Public Service Co.....	12,145	113.3	20.76	252.1

Note: Data are for electric generating plants with a total steam-electric and combined-cycle 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 26. The Top 20 Electric Utilities, Ranked by Receipts of Petroleum, 1998

Electric Utility	Receipts (thousand barrels)	Average Delivered Cost		Total Petroleum Bill (million dollars)
		(cents per million Btu)	(dollars per barrel)	
1. Florida Power & Light Co.....	40,910	207.7	13.18	539.1
2. Florida Power Corp.....	10,768	189.8	12.35	133.0
3. Connecticut Light & Power Co.....	9,908	218.6	13.98	138.6
4. Canal Electric Co.....	9,870	185.1	11.77	116.2
5. Mississippi Power & Light.....	8,342	198.7	13.14	109.6
6. Long Island Lighting Co.....	7,456	188.5	12.05	89.8
7. Hawaiian Electric Co Inc.....	6,916	261.5	16.39	113.3
8. Jacksonville Electric Auth.....	5,579	205.3	13.01	72.6
9. Central Hudson Gas & Elec Corp.....	5,091	188.5	11.96	60.9
10. Consolidated Edison Co-NY Inc.....	4,804	219.1	13.71	65.9
11. Virginia Electric & Power Co.....	4,530	203.8	12.86	58.2
12. United Illuminating Co.....	4,284	219.0	13.96	59.8
13. Potomac Electric Power.....	4,067	220.0	13.81	56.2
14. Pennsylvania Power & Light Co.....	3,830	210.7	13.30	50.9
15. Central Maine Power Co.....	3,204	202.1	12.84	41.1
16. New England Power Co.....	3,119	198.8	12.63	39.4
17. Niagara Mohawk Power Corp.....	2,888	234.3	14.83	42.8
18. Philadelphia Electric Co.....	2,782	231.7	14.70	40.9
19. Public Service Co of NH.....	2,427	187.2	11.94	29.0
20. Boston Edison Co.....	2,201	205.7	13.10	28.8

Note: Data are for electric generating plants with a total steam-electric and combined-cycle 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 27. The Top 20 Electric Utilities, Ranked by Receipts of Gas, 1998

Electric Utility	Receipts (thousand Mcf)	Average Delivered Cost		Total Gas Bill (million dollars)
		(cents per million Btu)	(dollars per Mcf)	
1. Texas Utilities Electric Co.....	413,551	239.5	2.45	1,011.2
2. Houston Lighting & Power Co.....	233,231	213.3	2.19	511.5
3. Gulf States Utilities Co.....	191,327	225.7	2.35	450.3
4. Florida Power & Light Co.....	189,533	276.3	2.91	551.7
5. Central Power & Light Co.....	132,695	209.8	2.16	286.1
6. Louisiana Power & Light Co.....	128,961	237.7	2.48	319.4
7. Pacific Gas & Electric Co.....	122,501	256.7	2.64	323.9
8. Consolidated Edison Co-NY Inc.....	88,847	233.7	2.41	213.8
9. Southwestern Public Service.....	79,274	218.2	2.19	173.6
10. Oklahoma Gas & Electric Co.....	79,104	252.8	2.62	207.3
11. Public Service Co of Oklahoma.....	77,826	235.8	2.41	187.9
12. San Diego Gas & Electric Co.....	56,153	275.3	2.78	156.1
13. Long Island Lighting Co.....	55,513	249.0	2.55	141.8
14. San Antonio City Pub Service.....	54,254	224.4	2.28	123.7
15. Commonwealth Edison Co.....	48,140	220.0	2.24	107.9
16. Southwestern Electric Power.....	38,855	220.5	2.26	87.8
17. Lower Colorado River Auth.....	37,692	205.6	2.09	78.7
18. West Texas Utilities Co.....	36,685	221.3	2.25	82.4
19. Central Louisiana Electric.....	34,407	217.9	2.28	78.5
20. City of Austin.....	34,231	233.9	2.38	81.6

Notes: • Data are for electric generating plants with a total steam-electric and combined-cycle 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 28. Receipts of Petroleum Coke by Electric Utility, 1998

Electric Utility	Receipts (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 Electric Pwr Coop-MO.....	18	14,118	4.50	0.51	70.3	19.84
Central Power & Light Co.....	35	14,284	4.83	.48	74.5	21.28
Cincinnati Gas & Electric Co.....	62	14,085	5.40	.42	55.1	15.52
Detroit Edison Co.....	13	14,300	3.91	.30	123.4	35.31
IES Utilities.....	70	14,111	5.56	.50	72.5	20.46
Illinois Power Co.....	73	14,040	4.67	.35	79.9	22.43
Indianapolis Power & Light Co.....	11	13,972	3.92	.25	47.6	13.30
Jacksonville Electric Authority.....	873	14,207	5.38	.41	55.1	15.66
Kentucky Utilities.....	22	14,062	5.06	.40	66.1	18.59
Lakeland Dept of Water and Elec.....	28	14,386	4.20	.40	88.9	25.58
Manitowoc Public Utilities.....	45	14,227	5.54	.83	67.2	19.13
Michigan South Central Power.....	73	14,149	4.40	.22	99.9	28.27
Mississippi Power Co.....	3	13,671	3.33	.44	171.7	46.96
Nebraska Public Power System.....	*	15,108	3.50	.30	106.5	32.19
Northern Indiana Pub Serv Co.....	92	13,974	4.69	.38	70.9	19.82
Northern States Power Co.....	238	14,069	5.65	.60	63.7	17.94
Ohio Edison Co.....	27	14,056	5.52	.96	51.9	14.59
Pennsylvania Power & Light Co.....	235	14,027	5.49	.82	74.7	20.95
Pennsylvania Power Co.....	529	13,584	4.67	4.30	102.8	27.92
PSI Energy Inc.....	19	13,985	4.71	1.28	79.5	22.24
San Antonio City of.....	172	18,673	2.99	1.05	64.0	23.90
Seminole Electric Coop Inc.....	211	14,118	4.74	.42	89.8	25.35
Tampa Electric Co.....	163	14,175	5.43	.36	44.4	12.58
Union Electric Co.....	14	14,400	4.90	.40	44.4	12.78
UtiliCorp United Inc.....	56	14,030	5.65	.81	58.6	16.44
Wisconsin Electric Power Co.....	61	14,066	4.51	.47	77.6	21.82
Wisconsin Power & Light Co.....	72	14,102	5.73	.43	63.4	17.89
Total.....	3,217	14,286	5.03	1.15	71.2	20.36

* = Number less than 0.5.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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 29. Receipts of No. 6 Fuel Oil by Electric Utility, 1998

Company	Receipts (thousand barrels)	Average Quality		Average Delivered Cost	
		Btu (per gallon)	Sulfur (percent by weight)	(cents per million Btu)	(dollars per barrel)
Atlantic City Electric Co.....	339	151,036	0.69	237.4	15.06
Baltimore Gas & Electric Co.....	1,878	151,501	.97	207.3	13.19
Boston Edison Co.....	2,186	151,703	.91	204.8	13.05
Cambridge Electric Light Co.....	141	149,994	.38	260.4	16.41
Canal Electric Co.....	9,870	151,463	.93	185.1	11.77
Central Hudson Gas & Elec Corp.....	5,091	151,084	1.20	188.5	11.96
Central Illinois Pub Serv Co.....	179	150,105	.29	282.1	17.79
Central Maine Power Co.....	3,197	151,264	1.25	202.0	12.83
Commonwealth Edison Co.....	644	152,506	.69	241.4	15.46
Connecticut Light & Power Co.....	9,892	152,320	.71	218.4	13.97
Consolidated Edison Co-NY Inc.....	4,804	148,990	.27	219.1	13.71
Consumers Power Co.....	1,254	153,687	.94	249.4	16.10
Delmarva Power & Light Co.....	2,206	151,880	.95	203.1	12.96
Detroit City of.....	178	146,436	.75	391.4	24.07
Detroit Edison Co.....	354	145,073	.64	281.0	17.12
Dover City of.....	300	151,180	.85	227.3	14.43
Florida Power & Light Co.....	40,878	151,055	1.39	207.7	13.17
Florida Power Corp.....	10,658	155,114	1.72	188.4	12.27
Gainesville Regional Utilities.....	85	152,135	1.53	268.9	17.18
Gulf States Utilities Co.....	339	150,283	.25	185.7	11.72
Hawaiian Electric Co Inc.....	6,912	149,211	.45	261.4	16.38
Illinois Power Co.....	132	149,710	.83	323.4	20.34
Jacksonville Electric Auth.....	5,450	151,119	1.48	202.6	12.86
Kansas Gas & Electric Co.....	82	157,358	1.08	153.7	10.16
Lake Worth City of.....	2	146,555	2.02	419.0	25.79
Lakeland City of.....	209	148,446	2.03	231.2	14.41
Long Island Lighting Co.....	7,442	152,143	.90	188.4	12.04
Louisiana Power & Light Co.....	263	154,396	1.00	230.1	14.92
Mississippi Power & Light Co.....	8,307	157,497	2.82	198.1	13.11
Montaup Electric Co.....	149	150,117	.95	197.6	12.46
New England Power Co.....	3,119	151,308	1.44	198.8	12.63
New Orleans Public Service Inc.....	588	156,377	1.50	226.2	14.86
Niagara Mohawk Power Corp.....	2,864	150,809	1.09	233.5	14.79
Orange & Rockland Utils Inc.....	1,659	149,425	.31	203.4	12.77
Orlando Utilities Comm.....	1,357	151,226	1.02	222.9	14.16
Pennsylvania Power & Light Co.....	3,483	151,421	.94	202.1	12.85
Philadelphia Electric Co.....	2,603	151,845	.48	228.3	14.56
Potomac Electric Power Co.....	3,390	150,940	.87	211.4	13.40
Power Authority of State of NY.....	1,969	149,401	.28	219.1	13.75
Public Service Co of NH.....	2,400	152,005	1.56	185.9	11.87
Public Service Electric&Gas Co.....	277	149,798	.30	272.4	17.14
Southwestern Electric Power Co.....	11	147,431	.00	270.3	16.74
St Joseph Light & Power Co.....	53	154,155	1.48	179.1	11.60
Tampa Electric Co.....	358	148,209	.59	222.2	13.83
Taunton City of.....	86	151,888	1.00	216.7	13.82
United Illuminating Co.....	4,248	151,860	.95	218.2	13.92
Vineland City of.....	49	153,043	.83	215.2	13.83
Virginia Electric & Power Co.....	4,281	150,796	1.16	196.7	12.46
Western Massachusetts Elec Co.....	145	150,912	.62	267.8	16.97
Total.....	156,362	151,754	1.19	207.7	13.24

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle 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 and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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	570	11,943	1.84	12.04	135.2	32.29	939	12,176	2.30	10.47	132.7	32.32
Lowman (AL)	570	11,943	1.84	12.04	135.2	32.29	939	12,176	2.30	10.47	132.7	32.32
Alabama Power Co¹	22,313	11,295	.87	10.19	170.2	38.44	1,645	12,443	1.10	10.81	144.8	36.04
Barry (AL)	2,916	12,209	.71	12.48	204.0	49.81	402	12,467	.79	8.22	148.3	36.98
Gadsden (AL)	231	12,721	1.89	12.22	157.8	40.13	2	12,235	.80	13.77	175.6	42.97
Gorgas 2 and 3 (AL)	4,449	12,176	1.62	13.04	166.3	40.50	—	—	—	—	—	—
Greene (AL)	1,499	12,063	1.77	12.56	122.4	29.53	60	11,969	2.22	11.95	125.6	30.06
Gaston (AL)	3,405	12,456	.89	11.80	188.2	46.88	1,128	12,491	1.18	11.83	142.0	35.49
James Miller (AL)	9,813	10,071	.41	7.25	161.5	32.53	53	11,782	.63	7.28	200.3	47.20
American Mun Power Ohio Inc	—	—	—	—	—	—	826	11,589	5.18	15.05	83.5	19.35
Gorsuch (OH)	—	—	—	—	—	—	826	11,589	5.18	15.05	83.5	19.35
Ames City of	231	8,871	.18	4.27	145.8	25.86	—	—	—	—	—	—
Ames (IA)	231	8,871	.18	4.27	145.8	25.86	—	—	—	—	—	—
Appalachian Power Co	10,288	12,259	.75	11.83	145.0	35.54	2,131	12,190	.77	12.58	109.8	26.77
Clinch River (VA)	1,399	12,300	.74	14.19	134.2	33.02	491	12,634	.78	12.65	117.1	29.60
Glen Lyn (VA)	544	12,872	.91	9.80	139.3	35.87	171	12,578	.82	10.19	133.1	33.49
Amos (WV)	5,304	12,202	.78	11.55	146.4	35.74	727	11,944	.76	12.70	103.7	24.77
Kanawha River (WV)	479	12,540	.84	11.11	164.9	41.37	538	12,001	.79	13.20	101.0	24.25
Mountaineer (WV)	2,561	12,172	.65	11.71	145.2	35.35	204	12,171	.67	12.30	115.6	28.15
Arizona Electric Pwr Coop Inc	877	9,812	.44	14.45	113.6	22.30	483	9,315	.76	16.34	114.8	21.38
Apache (AZ)	877	9,812	.44	14.45	113.6	22.30	483	9,315	.76	16.34	114.8	21.38
Arizona Public Service Co	10,409	9,111	.70	20.00	115.1	20.97	1,736	9,473	.45	14.13	102.9	19.50
Cholla (AZ)	2,115	9,893	.43	14.14	164.6	32.57	1,736	9,473	.45	14.13	102.9	19.50
Four Corners (NM)	8,294	8,911	.76	21.50	101.0	18.01	—	—	—	—	—	—
Arkansas Power & Light Co	11,667	8,709	.28	4.92	149.1	25.97	—	—	—	—	—	—
Whitebluff (AR)	5,935	8,608	.34	5.17	159.0	27.37	—	—	—	—	—	—
Independence (AR)	5,732	8,813	.22	4.66	139.1	24.52	—	—	—	—	—	—
Associated Electric Coop Inc	9,376	8,831	.19	4.38	85.0	15.01	—	—	—	—	—	—
Madrid (MO)	4,717	8,827	.19	4.39	95.9	16.94	—	—	—	—	—	—
Hill (MO)	4,659	8,835	.19	4.37	73.9	13.06	—	—	—	—	—	—
Atlantic City Electric Co	624	12,766	1.98	10.35	187.4	47.85	51	13,265	2.13	6.47	155.8	41.33
England (NJ)	455	12,735	2.38	10.20	184.5	47.00	51	13,265	2.13	6.47	155.8	41.33
Deepwater (NJ)	170	12,852	.91	10.74	194.9	50.11	—	—	—	—	—	—
Baltimore Gas & Electric Co	4,974	12,783	.88	9.94	140.0	35.78	84	12,727	.80	12.17	134.3	34.19
Brandon Shores (MD)	3,226	12,616	.70	10.71	140.0	35.33	29	12,450	.64	17.55	125.7	31.29
Crane (MD)	745	13,300	1.67	7.58	139.6	37.13	—	—	—	—	—	—
Wagner (MD)	1,003	12,937	.85	9.24	140.0	36.24	55	12,874	.89	9.33	138.7	35.71
Basin Electric Power Coop	17,198	7,433	.56	6.82	59.8	8.90	—	—	—	—	—	—
Leland Olds (ND)	3,597	6,723	.73	7.40	78.6	10.57	—	—	—	—	—	—
Laramie River (WY)	7,845	8,401	.39	5.08	45.6	7.67	—	—	—	—	—	—
Antelope Valley (ND)	5,755	6,556	.69	8.82	72.6	9.52	—	—	—	—	—	—
Big Rivers Electric Corp	844	11,213	3.42	14.43	92.3	20.71	2,178	11,242	2.77	13.26	98.7	22.20
Coleman (KY)	—	—	—	—	—	—	662	11,356	1.49	13.01	108.8	24.72
Reid-Henderson (KY)	145	11,449	2.49	8.70	106.2	24.31	446	11,797	3.03	10.53	98.8	23.30
R D Green (KY)	385	11,092	3.63	15.90	87.4	19.40	519	10,404	3.39	17.33	90.5	18.84
Wilson (KY)	314	11,252	3.59	15.29	91.8	20.65	551	11,447	3.51	11.93	93.6	21.44
Black Hills Corp	518	8,046	.66	6.98	45.9	7.39	—	—	—	—	—	—
Neal Simpson II (WY)	518	8,046	.66	6.98	45.9	7.39	—	—	—	—	—	—
Cajun Electric Power Coop Inc	6,347	8,432	.45	5.38	145.9	24.61	383	9,655	.16	2.43	179.3	34.62
Big Cajun No.2 (LA)	6,347	8,432	.45	5.38	145.9	24.61	383	9,655	.16	2.43	179.3	34.62

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
Cardinal Operating Co	4,027	12,247	1.61	12.04	163.5	40.06	376	12,351	2.57	10.42	101.5	25.06
Cardinal (OH)	4,027	12,247	1.61	12.04	163.5	40.06	376	12,351	2.57	10.42	101.5	25.06
Carolina Power & Light Co	10,757	12,384	.89	11.09	150.1	37.19	1,612	12,055	1.04	12.80	136.7	32.95
Asheville (NC).....	750	12,602	1.01	11.79	146.7	36.98	256	12,383	1.03	11.80	133.3	33.00
Cape Fear (NC)	782	12,314	.95	10.60	148.0	36.45	17	11,109	1.01	18.16	136.2	30.25
Lee (NC)	635	12,346	.94	10.39	154.6	38.17	130	12,358	.93	11.92	143.8	35.54
Roxboro (NC).....	5,296	12,362	.91	11.18	149.1	36.87	531	11,918	.93	12.84	133.3	31.78
Sutton (NC).....	889	12,681	.98	9.85	153.3	38.87	416	12,044	1.03	13.09	138.0	33.24
Weatherspoon (NC).....	301	12,853	.92	9.55	163.8	42.12	22	12,317	1.03	11.09	146.7	36.13
Robinson (SC).....	224	12,571	1.17	10.33	157.0	39.46	191	11,693	1.51	14.45	140.4	32.84
Mayo (NC).....	1,879	12,165	.69	11.90	149.1	36.28	47	12,773	.73	9.86	141.6	36.17
Cedar Falls City of	—	—	—	—	—	—	25	12,824	2.73	8.57	141.7	36.34
Streeter (IA).....	—	—	—	—	—	—	25	12,824	2.73	8.57	141.7	36.34
Central Electric Pwr Coop-MO	—	—	—	—	—	—	151	10,914	2.71	8.52	129.3	28.22
Chamois (MO).....	—	—	—	—	—	—	151	10,914	2.71	8.52	129.3	28.22
Central Hudson Gas & Elec Corp	818	13,061	.65	7.83	170.3	44.49	172	12,781	.63	6.65	156.8	40.07
Danskammer (NY).....	818	13,061	.65	7.83	170.3	44.49	172	12,781	.63	6.65	156.8	40.07
Central Illinois Light Co	1,360	11,033	2.46	7.63	160.6	35.44	1,538	10,762	2.59	8.68	128.3	27.62
Edwards (IL).....	596	11,497	1.04	6.55	130.4	29.99	1,083	10,725	2.64	8.76	124.9	26.78
Duck Creek (IL)	764	10,671	3.57	8.48	185.9	39.69	455	10,849	2.47	8.49	136.5	29.61
Central Illinois Pub Serv Co	3,561	10,615	1.12	8.41	159.6	33.87	2,657	9,561	.80	6.19	113.3	21.66
Coffeen (IL).....	2,029	10,238	1.07	8.59	169.2	34.65	—	—	—	—	—	—
Grand Tower (IL).....	—	—	—	—	—	—	334	11,062	3.02	10.37	98.1	21.70
Hutsonville (IL).....	125	11,000	2.81	9.00	108.1	23.77	94	11,380	2.50	8.23	109.0	24.80
Meredosia (IL).....	307	11,304	2.67	6.34	119.8	27.09	263	10,284	1.38	8.50	139.9	28.77
Newton (IL).....	1,100	11,074	.60	8.57	160.2	35.48	1,966	9,123	.26	5.07	112.7	20.56
Central Iowa Power Coop	147	11,450	2.87	9.24	115.1	26.35	—	—	—	—	—	—
Fair Station (IA).....	147	11,450	2.87	9.24	115.1	26.35	—	—	—	—	—	—
Central Louisiana Elec Co Inc	5,172	7,326	.79	12.07	137.7	20.17	—	—	—	—	—	—
Dolet Hills (LA).....	3,555	6,760	.92	14.27	136.8	18.49	—	—	—	—	—	—
Rodemacher (LA).....	1,617	8,571	.51	7.25	139.2	23.86	—	—	—	—	—	—
Central Operating Co	1,546	12,229	1.45	12.74	134.8	32.98	941	12,040	1.57	13.27	102.0	24.55
Sporn (WV)	1,546	12,229	1.45	12.74	134.8	32.98	941	12,040	1.57	13.27	102.0	24.55
Central Power & Light Co	914	10,411	.36	5.85	140.2	29.20	1,585	9,476	.38	5.54	138.8	26.31
Coletto Creek (TX).....	914	10,411	.36	5.85	140.2	29.20	1,585	9,476	.38	5.54	138.8	26.31
Cincinnati Gas & Electric Co	6,517	12,154	2.48	10.15	113.4	27.56	5,046	11,912	1.83	12.58	108.0	25.73
Beckjord (OH).....	1,521	12,222	1.24	10.31	117.0	28.59	1,642	11,830	1.33	12.79	110.0	26.02
Miami Fort (OH).....	1,255	12,238	1.01	11.38	132.9	32.53	1,737	11,764	1.21	13.68	113.3	26.67
East Bend (KY).....	428	12,218	1.83	10.05	117.3	28.66	1,269	12,091	2.83	11.63	100.6	24.33
Zimmer (OH).....	3,313	12,083	3.69	9.62	103.7	25.06	398	12,321	3.43	10.03	100.9	24.86
Cleveland Electric Illum Co	2,650	12,934	2.05	8.67	131.6	34.05	1,733	12,775	1.61	8.44	148.1	37.84
Ashtabula (OH).....	294	12,540	3.97	9.20	100.8	25.27	51	13,145	2.15	7.98	116.5	30.63
Avon Lake (OH).....	848	12,964	.74	9.29	149.8	38.84	485	12,128	1.16	9.89	124.3	30.15
Eastlake (OH).....	1,508	12,994	2.41	8.22	127.2	33.07	1,065	13,022	1.90	8.05	159.0	41.41
Lake Shore (OH).....	—	—	—	—	—	—	132	13,016	.71	6.38	154.2	40.13
Colorado Springs City of	1,579	10,556	.40	7.09	127.6	26.93	11	12,211	.53	15.23	126.9	30.99
Drake (CO).....	761	10,438	.36	5.90	168.2	35.11	11	12,211	.53	15.23	126.9	30.99
Nixon (CO).....	818	10,667	.43	8.20	90.6	19.33	—	—	—	—	—	—
Columbia City of	28	13,193	1.19	7.50	202.2	53.36	—	—	—	—	—	—
Columbia (MO).....	28	13,193	1.19	7.50	202.2	53.36	—	—	—	—	—	—

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
Columbus Southern Power Co.....	3,367	11,956	2.69	8.60	152.1	36.38	999	11,753	3.00	11.48	97.0	22.80
Conesville (OH).....	3,286	11,969	2.68	8.56	153.3	36.70	923	11,767	2.99	11.64	96.4	22.68
Picway (OH).....	81	11,438	3.40	10.20	102.0	23.32	77	11,585	3.18	9.53	104.6	24.24
Commonwealth Edison Co.....	14,242	8,844	.32	5.00	233.0	41.21	1,384	8,978	.67	5.70	117.3	21.07
Crawford (IL).....	25	8,644	.20	4.44	131.3	22.69	—	—	—	—	—	—
Joliet (IL).....	3,324	8,742	.36	5.62	306.1	53.52	439	8,750	.37	5.42	123.7	21.66
Kincaid (IL).....	219	11,381	.32	7.66	220.8	50.26	142	11,019	2.60	7.95	111.7	24.62
Powerton (IL).....	3,285	8,724	.24	4.64	204.4	35.67	285	8,800	.45	5.12	132.7	23.36
Waukegan (IL).....	2,100	8,701	.44	5.42	229.2	39.89	436	8,714	.53	5.69	109.0	19.00
Will County (IL).....	5,289	8,935	.30	4.57	207.9	37.15	82	8,679	.45	5.40	85.3	14.81
Consumers Power Co.....	4,936	11,496	.67	9.53	152.5	35.06	3,459	10,538	.68	7.98	128.1	26.99
Cobb (MI).....	585	9,170	.44	6.12	116.6	21.39	577	10,646	.88	7.05	125.0	26.62
Karn-Weadock (MI).....	588	12,176	.80	11.78	156.4	38.10	364	12,204	.91	10.99	146.4	35.74
Campbell (MI).....	2,486	12,176	.69	9.79	163.2	39.74	1,574	10,024	.56	7.28	124.6	24.98
Weadock (MI).....	849	10,403	.61	8.57	133.9	27.85	520	9,676	.51	6.96	115.0	22.25
Whiting (MI).....	427	11,954	.79	11.49	153.5	36.69	424	11,926	.88	10.54	139.6	33.29
Coop Power Assn.....	7,046	6,246	.68	11.05	81.1	10.13	—	—	—	—	—	—
Coal Creek (ND).....	7,046	6,246	.68	11.05	81.1	10.13	—	—	—	—	—	—
Dairyland Power Coop.....	1,789	8,804	.19	4.38	100.3	17.66	765	11,946	.92	6.12	133.8	31.97
Alma-Madgett (WI).....	1,408	8,775	.19	4.42	97.0	17.03	265	11,788	.97	7.16	134.5	31.70
Genoa No.3 (WI).....	381	8,913	.18	4.22	112.1	19.99	500	12,030	.89	5.57	133.5	32.11
Dayton Power & Light Co.....	5,738	11,781	.79	14.11	132.0	31.10	2,628	11,402	.79	14.41	110.4	25.18
Hutchings (OH).....	—	—	—	—	—	—	369	12,539	.83	11.83	137.6	34.49
Stuart (OH).....	4,436	11,698	.83	14.14	131.0	30.65	1,527	11,033	.86	15.65	101.9	22.49
Killen (OH).....	1,302	12,067	.63	14.02	135.3	32.64	732	11,599	.63	13.13	112.5	26.10
Delmarva Power & Light Co.....	1,698	12,984	.98	8.87	156.4	40.62	46	12,139	.82	11.01	151.3	36.73
Edgemoor (DE).....	505	12,712	.73	10.24	159.6	40.57	33	12,026	.82	10.75	147.6	35.51
Indian River (DE).....	1,193	13,099	1.09	8.30	155.1	40.64	14	12,414	.82	11.65	159.8	39.67
Deseret Generation & Tran Coop.....	1,723	10,149	.43	10.24	193.2	39.22	—	—	—	—	—	—
Bonanza (UT).....	1,723	10,149	.43	10.24	193.2	39.22	—	—	—	—	—	—
Detroit Edison Co.....	17,991	9,724	.45	4.93	128.9	25.06	4,820	12,637	1.43	6.99	128.0	32.36
Harbor Beach (MI).....	13	12,860	.85	8.40	150.6	38.73	138	13,398	.81	7.14	152.0	40.72
Marysville (MI).....	12	12,932	.79	8.10	145.8	37.71	71	13,192	.74	8.27	149.5	39.44
Monroe (MI).....	6,660	9,978	.56	5.64	108.8	21.71	2,459	13,015	1.31	7.32	128.1	33.34
River Rouge (MI).....	1,159	9,886	.49	5.98	109.6	21.67	424	13,053	.95	7.90	135.0	35.24
St Clair (MI).....	4,374	9,476	.35	4.23	151.7	28.75	979	12,071	2.34	6.54	122.0	29.45
Trenton Channel (MI).....	1,576	9,831	.50	4.93	107.7	21.18	479	13,015	1.47	6.81	128.7	33.51
Belle River (MI).....	4,197	9,476	.35	4.23	152.2	28.85	270	9,397	.34	4.09	112.7	21.18
Duke Power Co.....	10,593	12,446	.82	9.81	143.7	35.76	5,706	12,423	1.01	10.20	134.7	33.47
Allen (NC).....	1,341	12,541	.72	9.91	143.2	35.90	418	12,505	.95	10.62	134.6	33.66
Buck (NC).....	262	12,097	.94	11.25	146.9	35.54	408	11,781	1.04	14.38	137.5	32.41
Cliffside (NC).....	792	12,721	.85	7.97	133.6	34.00	797	12,579	.98	8.81	134.9	33.94
Dan River (NC).....	85	12,319	.86	10.95	144.1	35.51	307	12,456	1.09	10.32	137.5	34.26
Marshall (NC).....	2,382	12,266	.94	10.47	132.6	32.52	2,292	12,484	1.03	9.91	130.6	32.61
Riverbend (NC).....	131	12,659	.98	8.96	136.5	34.55	658	12,351	.99	10.05	136.6	33.75
Lee (SC).....	117	12,701	.85	8.44	143.8	36.54	318	12,472	.90	9.38	146.6	36.57
Belews Creek (NC).....	5,483	12,469	.78	9.73	150.1	37.42	508	12,396	1.10	10.62	139.4	34.57
Duquesne Light Co.....	959	12,528	1.76	10.97	234.8	58.83	1,132	12,723	2.18	10.38	103.1	26.23
Elrama (PA).....	460	12,252	1.86	12.83	354.4	86.85	661	12,391	2.20	11.93	105.4	26.12
Cheswick (PA).....	499	12,783	1.66	9.25	129.1	33.01	471	13,191	2.15	8.20	100.0	26.38
East Kentucky Power Coop Inc.....	2,236	12,325	.82	10.86	113.9	28.09	1,517	12,331	.87	9.97	114.0	28.12
Cooper (KY).....	459	12,271	1.14	9.90	114.2	28.03	324	12,447	1.25	9.31	111.9	27.87

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
East Kentucky Power Coop Inc												
Dale (KY).....	213	12,392	0.80	9.12	112.7	27.94	254	12,280	0.90	9.79	112.7	27.69
Spurlock (KY).....	1,564	12,332	.72	11.37	114.0	28.13	939	12,305	.73	10.26	115.1	28.32
Electric Energy Inc.....	5,191	8,737	.22	4.48	83.3	14.55	—	—	—	—	—	—
Joppa (IL).....	5,191	8,737	.22	4.48	83.3	14.55	—	—	—	—	—	—
Empire District Electric Co.....	1,197	9,189	.55	5.27	106.0	19.47	15	11,500	3.25	13.00	169.3	38.94
Riverton (KS).....	318	9,654	.93	6.05	116.6	22.52	—	—	—	—	—	—
Asbury (MO).....	878	9,020	.41	4.99	101.8	18.37	15	11,500	3.25	13.00	169.3	38.94
Florida Power Corp².....	3,646	12,568	.80	9.26	177.4	44.60	1,947	12,658	.90	8.77	164.9	41.74
Crystal River (FL).....	2,304	12,599	.86	8.95	178.2	44.90	1,230	12,724	1.02	8.41	164.8	41.94
IMT Transfer (LA).....	1,342	12,516	.69	9.79	176.0	44.07	717	12,544	.68	9.39	164.9	41.38
Fremont City of.....	211	8,510	.27	4.60	89.9	15.29	24	9,556	.40	4.81	111.2	21.25
Wright (NE).....	211	8,510	.27	4.60	89.9	15.29	24	9,556	.40	4.81	111.2	21.25
Gainesville Regional Utilities.....	584	13,097	.66	7.29	165.8	43.42	55	13,110	.69	6.67	165.8	43.48
Deerhaven (FL).....	584	13,097	.66	7.29	165.8	43.42	55	13,110	.69	6.67	165.8	43.48
Georgia Power Co.....	15,589	12,558	.90	10.05	158.9	39.91	15,315	10,938	.79	8.50	150.1	32.83
Arkwright (GA).....	—	—	—	—	—	—	130	12,743	1.87	9.09	161.7	41.21
Atkinson-McDonough (GA).....	1,139	12,825	.97	8.69	136.7	35.05	229	12,567	1.29	8.82	137.2	34.49
Bowen (GA).....	6,337	12,474	.88	10.47	143.4	35.78	1,283	11,541	1.05	15.08	130.9	30.22
Hammond (GA).....	918	12,816	.82	9.73	149.7	38.38	382	12,531	1.09	10.88	154.5	38.73
Harllee Branch (GA).....	1,775	12,455	1.08	10.54	163.0	40.60	1,488	12,293	1.53	10.26	150.3	36.96
Mitchell (GA).....	87	12,803	1.30	9.41	172.8	44.24	129	12,760	1.31	8.59	170.5	43.50
Yates (GA).....	1,533	12,914	.88	9.55	152.6	39.43	668	12,678	1.37	9.93	154.6	39.20
Wansley (GA).....	1,537	12,540	1.16	8.49	147.1	36.89	2,579	12,219	1.03	11.59	147.0	35.93
Scherer (GA).....	2,263	12,392	.63	10.74	226.8	56.22	8,426	9,905	.45	6.01	153.7	30.44
Grand Haven City of.....	120	11,025	2.33	10.54	138.2	30.47	58	12,915	2.49	8.65	141.5	36.56
J B Simms (MI).....	120	11,025	2.33	10.54	138.2	30.47	58	12,915	2.49	8.65	141.5	36.56
Grand Island City of.....	406	8,721	.45	5.49	67.6	11.80	—	—	—	—	—	—
Platte (NE).....	406	8,721	.45	5.49	67.6	11.80	—	—	—	—	—	—
Grand River Dam Authority.....	3,388	8,537	.42	5.01	87.7	14.98	506	8,353	.33	5.62	85.3	14.25
GRDA No 1 (OK).....	3,388	8,537	.42	5.01	87.7	14.98	506	8,353	.33	5.62	85.3	14.25
Gulf Power Co.....	1,578	12,094	1.07	7.04	157.9	38.18	2,038	12,257	1.78	8.20	149.5	36.65
Crist (FL).....	1,521	12,097	1.08	7.04	158.2	38.29	951	12,372	.94	6.76	154.8	38.31
Scholtz (FL).....	—	—	—	—	—	—	138	12,833	1.33	8.59	160.7	41.25
Smith (FL).....	58	11,994	1.02	6.92	147.4	35.37	949	12,057	2.68	9.59	142.3	34.31
Gulf States Utilities Co.....	2,141	8,691	.44	5.35	137.8	23.96	—	—	—	—	—	—
Nelson (LA).....	2,141	8,691	.44	5.35	137.8	23.96	—	—	—	—	—	—
Hamilton City of.....	150	12,341	.72	10.03	140.9	34.79	15	11,932	.73	10.80	138.3	33.00
Hamilton (OH).....	150	12,341	.72	10.03	140.9	34.79	15	11,932	.73	10.80	138.3	33.00
Hastings City of.....	103	8,898	.19	4.27	71.8	12.78	220	8,477	.37	5.10	59.6	10.10
Hastings (NE).....	103	8,898	.19	4.27	71.8	12.78	220	8,477	.37	5.10	59.6	10.10
Holland City of.....	139	13,043	.86	6.07	174.0	45.39	37	12,295	.59	9.70	160.0	39.34
James De Young (MI).....	139	13,043	.86	6.07	174.0	45.39	37	12,295	.59	9.70	160.0	39.34
Holyoke Water Power Co.....	344	13,165	1.08	7.18	178.0	46.86	36	12,795	.65	7.35	188.0	48.12
Mount Tom (MA).....	344	13,165	1.08	7.18	178.0	46.86	36	12,795	.65	7.35	188.0	48.12
Hoosier Energy R E C Inc.....	3,826	10,967	2.84	10.56	126.5	27.75	149	11,103	2.85	10.00	95.0	21.09
Frank E Ratts (IN).....	739	11,093	1.27	8.37	133.7	29.66	—	—	—	—	—	—
Merom (IN).....	3,087	10,937	3.22	11.09	124.7	27.29	149	11,103	2.85	10.00	95.0	21.09

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
Houston Lighting & Power Co	17,983	7,568	0.68	11.03	149.8	22.67	2,158	8,683	0.40	5.17	113.4	19.70
Limestone (TX).....	8,708	6,467	.98	17.42	91.3	11.81	—	—	—	—	—	—
Parish (TX).....	9,275	8,602	.39	5.04	191.1	32.87	2,158	8,683	.40	5.17	113.4	19.70
IES Utilities Co	1,368	8,406	.35	6.08	102.8	17.28	3,996	8,436	.36	5.73	84.0	14.17
6th St (IA).....	33	10,191	.49	4.65	148.7	30.30	144	10,069	.43	4.65	143.2	28.83
Praire Creek (IA).....	—	—	—	—	—	—	857	8,385	.34	5.92	85.1	14.26
Sutherland (IA).....	—	—	—	—	—	—	526	8,343	.33	5.37	71.7	11.97
Burlington (IA).....	6	11,431	.54	11.66	142.5	32.58	663	8,430	.46	5.23	83.5	14.08
Ottumwa (IA).....	1,330	8,349	.34	6.09	101.2	16.90	1,806	8,360	.34	6.01	81.5	13.63
Illinois Power Co	8,036	10,966	2.24	9.85	114.2	25.05	18	10,815	3.16	8.06	137.8	29.80
Baldwin (IL).....	4,964	10,742	2.85	10.22	105.8	22.72	—	—	—	—	—	—
Havana (IL).....	916	11,631	.52	9.56	136.7	31.80	—	—	—	—	—	—
Hennepin (IL).....	717	10,836	2.83	9.90	113.7	24.65	18	10,815	3.16	8.06	137.8	29.80
Vermilion (IL).....	487	10,425	1.48	10.51	110.7	23.07	—	—	—	—	—	—
Wood River (IL).....	952	11,864	.70	7.85	135.0	32.04	—	—	—	—	—	—
Independence City of	99	10,840	3.35	16.54	117.0	25.37	6	10,107	3.37	17.83	135.3	27.35
Blue Valley (MO).....	99	10,840	3.35	16.54	117.0	25.37	6	10,107	3.37	17.83	135.3	27.35
Indiana-Kentucky Electric Corp	3,364	10,050	.34	5.02	124.7	25.07	1,122	10,221	2.79	10.69	101.5	20.74
Clifty Creek (IN).....	3,364	10,050	.34	5.02	124.7	25.07	1,122	10,221	2.79	10.69	101.5	20.74
Indiana Michigan Power Co	8,892	9,122	.36	4.91	109.8	20.03	2,998	10,506	.68	8.59	110.3	23.17
Tanners Creek (IN).....	894	12,539	1.31	8.10	126.6	31.75	1,048	12,100	.97	10.85	116.5	28.19
Rockport (IN).....	7,998	8,740	.25	4.56	107.1	18.72	1,950	9,650	.52	7.37	106.0	20.47
Indianapolis Power & Light Co	4,695	11,074	2.33	8.93	104.6	23.17	2,994	11,060	2.36	9.43	89.0	19.68
Stout (IN).....	1,390	11,086	1.17	7.98	112.0	24.83	162	10,941	1.21	8.66	103.6	22.68
Pritchard (IN).....	274	11,230	1.22	7.23	109.8	24.65	351	10,769	.97	8.93	101.5	21.87
Petersburg (IN).....	3,031	11,055	2.97	9.52	100.8	22.28	2,481	11,109	2.63	9.55	86.3	19.18
Interstate Power Co	973	9,967	.43	7.19	161.2	32.13	1,047	9,535	1.15	6.86	116.2	22.16
Dubuque (IA).....	—	—	—	—	—	—	232	10,938	2.77	9.76	105.5	23.08
Lansing (IA).....	513	8,379	.39	5.28	199.0	33.34	610	9,216	.77	6.08	115.0	21.19
Kapp (IA).....	461	11,735	.49	9.32	131.1	30.78	206	8,899	.45	5.93	135.0	24.02
Jacksonville Electric Auth	2,924	12,241	1.00	8.56	159.0	38.92	363	12,578	.89	6.92	150.8	37.94
St Johns River (FL).....	2,924	12,241	1.00	8.56	159.0	38.92	363	12,578	.89	6.92	150.8	37.94
Jamestown City of	—	—	—	—	—	—	96	12,674	2.15	10.02	130.2	33.00
Samuel A Carlson (NY).....	—	—	—	—	—	—	96	12,674	2.15	10.02	130.2	33.00
Kansas City City of	1,662	8,890	.43	5.74	93.5	16.63	—	—	—	—	—	—
Quindaro (KS).....	482	10,372	.58	6.82	125.0	25.94	—	—	—	—	—	—
Nearman (KS).....	1,180	8,284	.37	5.30	77.4	12.83	—	—	—	—	—	—
Kansas City Power & Light Co	10,025	8,689	.48	5.74	73.3	12.74	726	8,730	.37	5.41	67.4	11.77
La Cygne (KS).....	4,871	8,662	.62	6.18	66.5	11.53	162	8,725	.39	5.13	63.8	11.13
Hawthorne (MO).....	1,143	8,724	.33	5.19	66.9	11.67	—	—	—	—	—	—
Montrose (MO).....	1,786	8,710	.34	5.30	88.4	15.39	—	—	—	—	—	—
Iatan (MO).....	2,225	8,712	.35	5.41	79.2	13.80	564	8,732	.37	5.49	68.5	11.96
Kansas Power & Light Co	9,830	8,684	.38	5.09	112.4	19.52	—	—	—	—	—	—
Lawrence (KS).....	793	10,743	.43	7.87	115.2	24.75	—	—	—	—	—	—
Tecumseh (KS).....	471	10,626	.43	7.67	114.0	24.23	—	—	—	—	—	—
Jeffrey Energy Cnt (KS).....	8,566	8,387	.38	4.69	111.9	18.78	—	—	—	—	—	—
Kentucky Power Co	1,730	12,235	1.20	10.08	111.0	27.17	1,206	12,226	1.14	9.85	104.7	25.60
Big Sandy (KY).....	1,730	12,235	1.20	10.08	111.0	27.17	1,206	12,226	1.14	9.85	104.7	25.60
Kentucky Utilities Co	4,288	12,140	1.60	11.00	112.9	27.42	3,051	11,937	1.31	11.79	110.6	26.41

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
Kentucky Utilities Co												
Brown (KY).....	123	11,936	1.10	12.49	114.3	27.28	1,392	12,064	1.34	11.90	112.0	27.03
Ghent (KY).....	4,164	12,146	1.61	10.96	112.9	27.43	984	11,802	.71	13.61	111.3	26.27
Green River (KY).....	—	—	—	—	—	—	571	11,682	2.37	9.13	104.0	24.30
Tyrone (KY).....	—	—	—	—	—	—	103	12,930	.78	7.76	120.1	31.05
Lakeland City of	484	12,843	1.30	8.95	175.7	45.12	144	12,972	1.10	7.10	176.7	45.84
Plant 3-Mcintosh (FL).....	484	12,843	1.30	8.95	175.7	45.12	144	12,972	1.10	7.10	176.7	45.84
Lansing City of	995	10,796	.60	7.13	153.4	33.13	121	12,530	.89	9.91	162.0	40.59
Eckert (MI).....	674	10,082	.47	6.45	148.5	29.95	75	12,606	.94	9.14	160.6	40.50
Erickson (MI).....	321	12,296	.86	8.56	161.9	39.82	46	12,406	.81	11.16	164.2	40.74
Los Angeles City of	5,243	11,700	.52	10.16	135.9	31.81	218	11,950	.51	9.02	96.0	22.94
Intermountain (UT).....	5,243	11,700	.52	10.16	135.9	31.81	218	11,950	.51	9.02	96.0	22.94
Louisville Gas & Electric Co	5,290	11,488	3.51	12.32	95.6	21.97	1,658	11,184	2.83	14.51	103.0	23.05
Cane Run (KY).....	1,355	11,278	3.32	11.25	97.9	22.08	68	11,584	2.92	11.63	107.0	24.79
Mill Creek (KY).....	2,846	11,401	3.39	12.79	97.4	22.22	1,096	11,556	2.88	12.45	107.4	24.81
Trimble County (KY).....	1,089	11,980	4.05	12.40	88.5	21.20	495	10,306	2.72	19.47	91.7	18.90
Lower Colorado River Authority	5,181	8,578	.34	5.44	94.6	16.22	513	8,714	.35	5.73	96.1	16.75
S Seymour-Fayette (TX).....	5,181	8,578	.34	5.44	94.6	16.22	513	8,714	.35	5.73	96.1	16.75
Madison Gas & Electric Co	—	—	—	—	—	—	156	10,723	1.41	9.14	137.3	29.45
Blount (WI).....	—	—	—	—	—	—	156	10,723	1.41	9.14	137.3	29.45
Manitowoc Public Utilities	—	—	—	—	—	—	112	12,897	1.19	6.94	160.5	41.40
Manitowoc (WI).....	—	—	—	—	—	—	112	12,897	1.19	6.94	160.5	41.40
Marquette City of	179	9,737	.39	4.47	121.2	23.60	—	—	—	—	—	—
Shiras (MI).....	179	9,737	.39	4.47	121.2	23.60	—	—	—	—	—	—
Metropolitan Edison Co	1,208	13,217	1.28	7.12	138.8	36.70	55	13,125	1.70	7.92	137.4	36.06
Portland (PA).....	717	13,216	1.27	7.16	140.4	37.12	37	13,129	1.72	7.84	138.7	36.42
Titus (PA).....	490	13,219	1.30	7.07	136.5	36.08	18	13,119	1.67	8.09	134.6	35.32
Michigan South Central Pwr Agcy	36	11,799	3.36	9.43	159.0	37.53	103	11,903	3.25	10.91	158.4	37.70
Project I (MI).....	36	11,799	3.36	9.43	159.0	37.53	103	11,903	3.25	10.91	158.4	37.70
MidAmerican Energy	12,356	8,497	.36	5.15	77.0	13.08	661	8,490	.32	5.04	61.9	10.51
Riverside (IA).....	473	8,592	.22	3.84	82.0	14.09	12	8,684	.19	4.40	72.9	12.66
Council Bluffs (IA).....	3,243	8,374	.38	4.95	69.7	11.68	302	8,487	.35	5.05	54.3	9.21
George Neal 1-4 (IA).....	5,785	8,615	.37	5.09	74.7	12.87	333	8,478	.31	5.09	67.8	11.50
Louisa (IA).....	2,855	8,382	.33	5.72	89.2	14.95	14	8,688	.18	4.50	75.2	13.07
Minnesota Power & Light Co	3,956	9,074	.55	6.27	113.8	20.65	123	8,748	.24	4.81	120.2	21.03
Laskin Energy Center (MN).....	324	9,392	.35	4.22	115.0	21.60	—	—	—	—	—	—
Boswell Energy Center (MN).....	3,632	9,046	.57	6.45	113.7	20.57	123	8,748	.24	4.81	120.2	21.03
Minnkota Power Coop Inc	4,136	6,702	.85	8.30	64.5	8.65	—	—	—	—	—	—
Young (ND).....	4,136	6,702	.85	8.30	64.5	8.65	—	—	—	—	—	—
Mississippi Power Co	3,995	10,211	.71	5.38	145.3	29.67	938	10,302	.77	5.99	136.9	28.21
Watson (MS).....	1,279	11,908	1.43	7.32	142.0	33.81	824	10,426	.83	6.21	135.8	28.32
Daniel (MS).....	2,716	9,412	.37	4.46	147.3	27.72	115	9,416	.30	4.40	145.4	27.38
Monongahela Power Co	11,407	12,484	3.04	11.24	110.5	27.59	562	12,672	2.21	10.85	98.4	24.95
Albright (WV).....	224	12,717	1.58	11.31	107.1	27.24	189	12,535	1.52	11.99	104.1	26.09
Ft Martin (WV).....	2,616	12,563	1.52	11.05	122.8	30.86	—	—	—	—	—	—
Harrison (WV).....	5,001	12,512	3.53	11.92	115.8	28.99	206	12,618	3.46	12.12	79.7	20.13
Rivesville (WV).....	124	12,186	.93	10.80	120.2	29.31	21	12,434	.87	9.85	120.8	30.04
Willow Island (WV).....	290	13,229	1.39	6.89	109.0	28.83	134	13,027	1.38	7.39	116.6	30.38
Pleasants (WV).....	3,152	12,299	3.86	10.75	91.5	22.50	12	12,196	3.45	11.74	82.2	20.04

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
Montana-Dakota Utilities Co	3,025	6,924	1.00	8.46	87.8	12.15	*	7,005	1.07	7.54	55.6	7.79
Heskett (ND).....	415	7,063	.81	7.19	110.2	15.57	*	7,005	1.07	7.54	55.6	7.79
Lewis and Clark (MT).....	277	6,702	.47	8.15	91.1	12.21	—	—	—	—	—	—
Coyote (ND).....	2,332	6,926	1.09	8.72	83.3	11.54	—	—	—	—	—	—
Montana Power Co	10,243	8,480	.73	9.53	66.9	11.34	—	—	—	—	—	—
Corette (MT).....	397	8,314	.23	4.45	54.4	9.04	—	—	—	—	—	—
Colstrip (MT).....	9,846	8,487	.75	9.74	67.4	11.43	—	—	—	—	—	—
Montaup Electric Co	—	—	—	—	—	—	308	12,696	.73	7.88	179.5	45.58
Somerset (MA).....	—	—	—	—	—	—	308	12,696	.73	7.88	179.5	45.58
Muscataine City of	852	8,776	.96	6.71	89.6	15.72	—	—	—	—	—	—
Muscataine (IA).....	852	8,776	.96	6.71	89.6	15.72	—	—	—	—	—	—
Nebraska Public Power District	6,348	8,630	.25	4.59	48.6	8.40	129	9,140	.37	4.84	73.5	13.44
Sheldon (NE).....	819	8,741	.20	4.44	60.9	10.65	129	9,140	.37	4.84	73.5	13.44
Gerald Gentleman (NE).....	5,530	8,614	.26	4.61	46.8	8.06	—	—	—	—	—	—
Nevada Power Co	1,727	11,689	.43	8.87	123.8	28.94	99	11,985	.58	9.70	112.9	27.07
Gardner (NV).....	1,727	11,689	.43	8.87	123.8	28.94	99	11,985	.58	9.70	112.9	27.07
New England Power Co	2,588	12,540	.67	8.67	164.8	41.34	197	12,508	.71	10.06	162.7	40.71
Brayton (MA).....	2,061	12,539	.67	9.29	164.9	41.35	177	12,516	.70	9.93	162.3	40.64
Salem Harbor (MA).....	527	12,547	.67	6.22	164.6	41.30	20	12,440	.75	11.25	166.3	41.38
New York State Elec & Gas Corp	3,042	13,141	2.19	7.38	134.5	35.34	468	11,887	1.46	14.32	132.9	31.59
Goudey (NY).....	323	13,318	2.17	6.81	141.0	37.55	4	13,370	2.31	6.97	133.9	35.80
Greenidge (NY).....	309	13,121	1.40	7.28	140.1	36.77	47	13,339	2.14	6.91	135.9	36.26
Hickling (NY).....	—	—	—	—	—	—	210	10,396	.69	22.73	124.7	25.92
Jennison (NY).....	—	—	—	—	—	—	66	13,078	1.56	7.10	162.1	42.40
Milliken (NY).....	803	13,087	2.25	7.53	134.5	35.20	26	12,321	2.81	11.82	134.3	33.10
Kintigh (NY).....	1,606	13,137	2.33	7.44	132.0	34.69	115	13,175	2.21	6.98	126.4	33.32
Niagara Mohawk Power Corp	2,907	13,135	1.82	7.23	138.2	36.29	326	13,028	1.77	7.73	128.6	33.51
Huntley (NY).....	1,510	13,134	1.66	7.03	144.6	37.99	298	13,013	1.73	7.70	128.9	33.55
Dunkirk (NY).....	1,397	13,136	2.00	7.44	131.2	34.46	28	13,198	2.20	8.06	125.4	33.10
Northern Indiana Pub Serv Co	7,138	9,881	1.24	6.80	133.0	26.28	2,049	10,423	1.48	7.06	121.1	25.24
Bailly (IN).....	1,185	10,956	2.51	9.10	138.3	30.30	264	11,179	2.54	9.21	127.0	28.39
Mitchell (IN).....	892	9,380	.44	5.53	144.5	27.11	246	8,747	.33	5.25	124.9	21.85
Michigan City (IN).....	1,384	9,490	.49	5.65	137.9	26.17	147	9,852	1.70	7.08	127.8	25.17
Rollin Schahfer (IN).....	3,678	9,804	1.31	6.80	126.6	24.83	1,392	10,636	1.46	6.97	118.7	25.24
Northern States Power Co	13,255	8,792	.41	6.36	103.8	18.26	151	10,688	.57	5.06	129.3	27.63
Black Dog (MN).....	966	8,815	.19	4.38	98.7	17.39	—	—	—	—	—	—
High Bridge (MN).....	930	8,871	.19	4.43	93.9	16.66	—	—	—	—	—	—
King (MN).....	1,291	8,845	.31	5.72	103.6	18.33	—	—	—	—	—	—
Riverside (MN).....	1,440	8,874	.19	4.40	90.8	16.12	—	—	—	—	—	—
Bay Front (WI).....	—	—	—	—	—	—	70	12,236	.82	5.91	167.8	41.07
Sherburne County (MN).....	8,628	8,760	.50	7.21	107.7	18.87	81	9,360	.34	4.34	86.0	16.10
Ohio Edison Co	4,367	11,874	1.30	14.09	119.6	28.40	2,525	12,608	1.75	10.72	106.2	26.78
Niles (OH).....	418	12,244	3.22	11.62	110.0	26.93	106	11,403	2.94	13.25	93.7	21.36
Burger (OH).....	371	12,321	3.59	10.61	91.9	22.66	342	12,704	1.84	10.06	102.3	26.00
Sammis (OH).....	3,578	11,785	.83	14.74	123.8	29.17	2,077	12,654	1.68	10.70	107.4	27.18
Ohio Power Co	13,079	11,647	2.83	12.02	173.5	40.42	1,179	12,327	1.17	12.31	114.1	28.13
Muskingum (OH).....	2,594	11,709	3.04	12.66	236.3	55.34	363	12,370	1.97	11.16	118.9	29.42
Kammer (WV).....	1,676	12,263	3.45	10.50	86.4	21.19	1	12,111	2.61	14.40	102.3	24.78
Mitchell (WV).....	2,448	12,354	.78	11.93	153.9	38.03	814	12,308	.81	12.82	112.0	27.56
Gavin (OH).....	6,361	11,188	3.37	12.19	180.2	40.31	—	—	—	—	—	—

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
Ohio Valley Electric Corp	2,373	13,085	2.14	7.26	112.2	29.37	468	12,251	1.81	10.18	104.1	25.51
Kyger Creek (OH).....	2,373	13,085	2.14	7.26	112.2	29.37	468	12,251	1.81	10.18	104.1	25.51
Oklahoma Gas & Electric Co	9,882	8,630	.29	4.90	82.2	14.20	—	—	—	—	—	—
Muskogee (OK).....	5,841	8,583	.27	4.63	84.4	14.49	—	—	—	—	—	—
Sooner (OK).....	4,041	8,698	.33	5.29	79.2	13.77	—	—	—	—	—	—
Omaha Public Power District	2,368	8,615	.22	4.57	70.0	12.06	2,130	8,347	.33	5.40	69.0	11.52
North Omaha (NE).....	653	8,454	.25	4.58	72.9	12.32	1,465	8,354	.33	5.43	70.3	11.75
Nebraska City (NE).....	1,715	8,677	.21	4.57	69.0	11.97	665	8,332	.34	5.31	66.2	11.03
Orange & Rockland Utils Inc	564	12,934	.62	8.26	186.8	48.31	120	13,107	.75	6.80	178.2	46.72
Lovett (NY).....	564	12,934	.62	8.26	186.8	48.31	120	13,107	.75	6.80	178.2	46.72
Orlando Utilities Comm	1,810	12,771	1.05	8.45	177.3	45.28	586	12,924	1.17	7.41	159.8	41.29
Stanton Energy (FL).....	1,810	12,771	1.05	8.45	177.3	45.28	586	12,924	1.17	7.41	159.8	41.29
Orrville City of	190	11,631	3.58	10.41	98.0	22.79	—	—	—	—	—	—
Orrville (OH).....	190	11,631	3.58	10.41	98.0	22.79	—	—	—	—	—	—
Otter Tail Power Co	1,699	8,728	.72	9.12	92.7	16.19	388	9,288	.37	4.42	123.7	22.98
Hoot Lake (MN).....	—	—	—	—	—	—	388	9,288	.37	4.42	123.7	22.98
Big Stone (SD).....	1,699	8,728	.72	9.12	92.7	16.19	—	—	—	—	—	—
Owensboro City of	1,321	10,819	3.12	12.47	96.2	20.81	—	—	—	—	—	—
Smith (KY).....	1,321	10,819	3.12	12.47	96.2	20.81	—	—	—	—	—	—
PacifiCorp	27,974	9,398	.57	10.63	101.6	19.09	3,510	9,444	.43	6.41	88.5	16.72
Carbon (UT).....	592	12,041	.47	9.56	62.7	15.09	—	—	—	—	—	—
Centralia (WA).....	4,623	7,849	.67	14.68	159.3	25.00	1,482	9,356	.34	4.19	121.1	22.67
Johnston (WY).....	4,007	7,857	.47	8.77	57.4	9.03	27	8,502	.29	5.42	50.2	8.54
Naughton (WY).....	2,712	10,062	.80	4.71	113.6	22.87	—	—	—	—	—	—
Wyodak (WY).....	2,122	8,052	.63	6.64	72.8	11.72	—	—	—	—	—	—
Emery-Hunter (UT).....	4,313	11,157	.43	12.30	94.3	21.04	—	—	—	—	—	—
Jim Bridger (WY).....	6,797	9,371	.60	10.89	116.1	21.76	2,001	9,521	.50	8.07	65.3	12.43
Huntington (UT).....	2,808	11,328	.43	12.37	75.4	17.08	—	—	—	—	—	—
Painesville City of	94	12,521	2.43	7.89	135.7	33.97	—	—	—	—	—	—
Painesville (OH).....	94	12,521	2.43	7.89	135.7	33.97	—	—	—	—	—	—
Pennsylvania Electric Co	15,898	12,057	2.03	15.26	120.8	29.14	3,193	12,331	2.11	12.88	105.0	25.89
Conemaugh (PA).....	3,845	12,626	2.29	12.07	110.4	27.87	1,342	12,633	2.31	11.36	99.9	25.25
Homer City (PA).....	5,762	11,385	2.21	19.27	120.3	27.39	621	11,345	2.06	18.07	110.8	25.14
Seward (PA).....	358	12,098	1.59	14.45	110.0	26.61	160	12,215	1.47	13.25	115.0	28.09
Shawville (PA).....	1,404	12,269	1.76	13.73	114.5	28.08	276	12,215	1.87	13.78	110.7	27.06
Warren (PA).....	97	12,370	1.71	12.96	122.7	30.34	72	12,222	1.77	12.25	121.6	29.72
Keystone (PA).....	4,431	12,360	1.69	13.42	133.6	33.03	721	12,699	2.05	10.88	103.9	26.39
Pennsylvania Power & Light Co	4,420	12,886	1.79	9.88	151.5	39.04	3,855	11,999	1.59	15.28	133.7	32.10
Brunner Island (PA).....	2,686	13,084	1.71	8.11	153.6	40.18	460	12,873	1.50	10.16	139.3	35.86
Holtwood (PA).....	—	—	—	—	—	—	175	8,535	.74	33.22	119.9	20.47
Martins Creek (PA).....	11	12,666	1.81	11.90	107.4	27.21	492	13,183	1.79	7.55	134.7	35.51
Montour (PA).....	1,479	12,655	1.95	12.31	146.6	37.10	1,918	12,671	1.90	12.52	139.8	35.42
Sunbury (PA).....	244	12,117	1.59	14.58	159.6	38.67	810	9,942	1.00	25.51	113.3	22.53
Pennsylvania Power Co	6,935	12,011	3.44	12.97	161.9	38.88	—	—	—	—	—	—
New Castle (PA).....	747	11,930	1.66	13.02	118.5	28.27	—	—	—	—	—	—
Bruce Mansfield (PA).....	6,187	12,021	3.65	12.97	167.1	40.16	—	—	—	—	—	—
Philadelphia Electric Co	1,272	13,185	1.71	7.75	144.3	38.06	2	12,808	.80	7.30	167.5	42.92
Cromby (PA).....	294	13,165	1.73	7.76	143.0	37.64	2	12,808	.80	7.30	167.5	42.92
Eddystone (PA).....	978	13,191	1.70	7.74	144.8	38.19	—	—	—	—	—	—

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
Plains Elec Gen&Trans Coop Inc	767	9,264	0.83	17.15	139.0	25.75	—	—	—	—	—	—
Escalante (NM).....	767	9,264	.83	17.15	139.0	25.75	—	—	—	—	—	—
Platte River Power Authority	994	8,818	.25	5.39	59.7	10.52	55	8,445	0.33	4.95	53.6	9.05
Rawhide (CO).....	994	8,818	.25	5.39	59.7	10.52	55	8,445	.33	4.95	53.6	9.05
Portland General Electric Co.	—	—	—	—	—	—	2,014	8,685	.32	5.19	108.9	18.92
Boardman (OR)	—	—	—	—	—	—	2,014	8,685	.32	5.19	108.9	18.92
Potomac Edison Co	110	12,250	.93	13.28	131.3	32.17	50	12,183	.92	13.37	130.2	31.71
Smith (MD).....	110	12,250	.93	13.28	131.3	32.17	50	12,183	.92	13.37	130.2	31.71
Potomac Electric Power Co.	2,785	13,033	1.34	8.92	158.5	41.32	3,791	13,019	1.36	7.46	146.8	38.22
Chalk (MD).....	807	13,114	1.43	9.36	176.1	46.19	690	13,102	1.32	7.95	153.5	40.22
Dickerson (MD).....	1,042	13,017	1.44	8.74	137.3	35.75	316	12,998	1.42	8.59	134.7	35.03
Morgantown (MD).....	528	13,066	1.44	9.09	175.1	45.74	2,244	13,037	1.49	7.03	144.6	37.70
Potomac River (VA).....	408	12,873	.77	8.30	156.1	40.18	541	12,854	.82	7.99	154.3	39.67
Public Service Co of Colorado	9,810	9,570	.37	6.51	92.6	17.73	751	10,879	.42	8.14	93.3	20.31
Arapahoe (CO)	716	8,731	.27	5.47	82.9	14.47	—	—	—	—	—	—
Cameo (CO).....	271	10,829	.55	15.90	96.9	20.98	—	—	—	—	—	—
Cherokee (CO).....	1,785	11,485	.48	9.35	96.2	22.11	465	11,080	.43	8.36	87.3	19.36
Comanche (CO).....	2,863	8,561	.27	4.43	90.2	15.45	71	8,638	.25	4.15	100.0	17.28
Valmont (CO).....	384	11,342	.47	9.50	112.6	25.55	214	11,186	.47	9.01	104.5	23.39
Hayden (CO).....	1,622	10,584	.42	7.72	96.4	20.40	—	—	—	—	—	—
Pawnee (CO).....	2,168	8,370	.37	4.63	86.0	14.40	—	—	—	—	—	—
PSI Energy Inc	11,664	11,172	1.94	8.98	110.5	24.69	4,666	10,979	1.58	9.33	108.5	23.83
Cayuga (IN)	2,070	10,889	1.76	9.73	118.6	25.82	587	10,941	.82	8.24	115.2	25.21
Edwardsport (IN).....	—	—	—	—	—	—	244	11,144	1.86	8.49	97.8	21.79
Noblesville (IN).....	—	—	—	—	—	—	193	11,178	2.32	8.99	113.7	25.42
Gallagher (IN).....	1,137	13,187	2.16	7.22	106.1	27.98	70	11,772	1.01	7.41	116.7	27.48
Wabash River (IN).....	1,125	10,817	1.96	10.46	103.7	22.43	1,432	10,812	1.62	9.07	107.3	23.21
Gibson Station (IN).....	7,333	10,994	1.95	8.81	110.1	24.20	2,141	11,038	1.69	9.98	108.0	23.84
Public Service Co of NH	1,028	13,203	1.67	7.07	165.0	43.57	381	12,943	.68	5.75	150.8	39.05
Merrimack (NH).....	1,028	13,203	1.67	7.07	165.0	43.57	—	—	—	—	—	—
Schiller (NH).....	—	—	—	—	—	—	381	12,943	.68	5.75	150.8	39.05
Public Service Co of NM	6,780	9,271	.84	25.02	164.4	30.48	—	—	—	—	—	—
San Juan (NM).....	6,780	9,271	.84	25.02	164.4	30.48	—	—	—	—	—	—
Public Service Co of Oklahoma	4,240	8,799	.20	4.40	110.6	19.46	26	8,448	.36	4.60	108.4	18.32
Northeastern (OK).....	4,240	8,799	.20	4.40	110.6	19.46	26	8,448	.36	4.60	108.4	18.32
Public Service Electric&Gas Co	1,241	13,416	.78	7.73	148.9	39.95	370	12,680	.75	9.67	144.9	36.75
Hudson (NJ).....	451	12,510	.87	11.77	140.9	35.24	188	12,571	.80	10.22	148.2	37.27
Mercer (NJ).....	790	13,934	.72	5.42	153.0	42.64	182	12,793	.69	9.09	141.6	36.22
Richmond City of	163	11,545	2.50	9.67	132.6	30.63	116	11,735	2.42	9.36	131.9	30.96
Whitewater (IN).....	163	11,545	2.50	9.67	132.6	30.63	116	11,735	2.42	9.36	131.9	30.96
Rochester Public Utilities	42	11,953	1.38	6.84	161.0	38.50	69	10,874	1.26	9.06	149.7	32.56
Silver Lake (MN).....	42	11,953	1.38	6.84	161.0	38.50	69	10,874	1.26	9.06	149.7	32.56
Rochester Gas & Electric Corp	566	13,326	2.24	7.07	142.7	38.04	216	13,139	2.14	7.84	149.4	39.25
Beebee Station 3 (NY).....	—	—	—	—	—	—	24	12,615	1.87	10.07	154.7	39.03
Russell Station 7 (NY).....	566	13,326	2.24	7.07	142.7	38.04	193	13,203	2.17	7.57	148.7	39.28
Salt River Proj Ag I & P Dist	10,206	10,693	.51	10.56	131.4	28.10	—	—	—	—	—	—
Navajo (AZ).....	7,680	10,981	.54	9.19	116.8	25.65	—	—	—	—	—	—
Coronado (AZ).....	2,526	9,816	.43	14.73	181.1	35.55	—	—	—	—	—	—

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
San Antonio City of	5,395	8,371	0.34	5.95	97.1	16.26	67	11,972	0.57	5.21	190.9	45.70
JT Deely/Spruce (TX).....	5,395	8,371	.34	5.95	97.1	16.26	67	11,972	.57	5.21	190.9	45.70
San Miguel Electric Coop Inc	3,523	5,215	1.78	27.45	69.4	7.24	—	—	—	—	—	—
San Miguel (TX).....	3,523	5,215	1.78	27.45	69.4	7.24	—	—	—	—	—	—
Savannah Electric & Power Co	—	—	—	—	—	—	844	11,571	.97	13.41	142.6	33.01
Kraft (GA).....	—	—	—	—	—	—	414	12,492	1.01	7.19	144.6	36.14
McIntosh (GA).....	—	—	—	—	—	—	430	10,683	.92	19.40	140.4	29.99
Seminole Electric Coop Inc	2,417	12,045	2.78	7.98	186.9	45.02	1,174	12,648	3.17	7.56	163.1	41.25
Seminole (FL).....	2,417	12,045	2.78	7.98	186.9	45.02	1,174	12,648	3.17	7.56	163.1	41.25
Sierra Pacific Power Co	561	11,309	.36	8.31	205.9	46.57	1,145	11,542	.39	8.70	119.7	27.63
North Valmy (NV).....	561	11,309	.36	8.31	205.9	46.57	1,145	11,542	.39	8.70	119.7	27.63
Sikeston City of	—	—	—	—	—	—	1,046	8,721	.35	5.34	100.2	17.48
Sikeston (MO).....	—	—	—	—	—	—	1,046	8,721	.35	5.34	100.2	17.48
South Carolina Electric&Gas Co	4,538	12,804	1.16	9.35	154.5	39.57	1,427	12,450	1.20	10.86	151.1	37.62
Canadys (SC).....	641	12,800	1.37	9.14	153.6	39.31	118	12,726	1.26	9.98	150.7	38.35
Mcmeekin (SC).....	617	13,093	1.41	9.89	150.2	39.32	12	12,492	1.27	9.79	148.3	37.04
Urguhart (SC).....	317	13,085	1.34	8.50	153.7	40.23	119	12,887	1.18	9.84	149.5	38.54
Wateree (SC).....	934	12,532	1.30	11.21	151.2	37.90	758	12,296	1.23	11.70	149.8	36.83
Williams (SC).....	1,292	12,908	.77	7.60	161.1	41.58	55	13,028	.82	7.02	163.1	42.51
Cope (SC).....	736	12,605	1.20	10.11	152.1	38.34	365	12,449	1.20	10.35	152.6	37.99
South Carolina Pub Serv Auth	5,649	12,984	1.25	7.82	136.0	35.32	482	12,575	1.17	8.67	130.8	32.91
Cross (SC).....	2,547	12,900	1.11	7.89	135.1	34.87	61	12,327	1.16	9.52	129.9	32.03
Grainger (SC).....	227	13,231	1.63	6.62	151.5	40.10	—	—	—	—	—	—
Jefferies (SC).....	640	13,300	1.62	6.33	132.1	35.13	—	—	—	—	—	—
Winyah (SC).....	2,235	12,964	1.25	8.29	136.6	35.41	421	12,611	1.17	8.55	131.0	33.04
South Mississippi El Pwr Assn	952	12,336	.89	8.82	197.4	48.71	—	—	—	—	—	—
R D Morrow (MS).....	952	12,336	.89	8.82	197.4	48.71	—	—	—	—	—	—
Southern California Edison Co	4,503	10,893	.51	10.40	125.6	27.36	—	—	—	—	—	—
Mohave (NV).....	4,503	10,893	.51	10.40	125.6	27.36	—	—	—	—	—	—
Southern Illinois Power Coop	695	11,293	3.13	14.78	99.5	22.47	132	8,237	2.02	26.22	50.2	8.27
Marion (IL).....	695	11,293	3.13	14.78	99.5	22.47	132	8,237	2.02	26.22	50.2	8.27
Southern Indiana Gas & Elec Co	—	—	—	—	—	—	3,254	11,418	3.56	8.96	93.8	21.41
Culley (IN).....	—	—	—	—	—	—	1,395	11,468	3.61	9.12	92.3	21.16
A B Brown (IN).....	—	—	—	—	—	—	1,444	11,486	3.80	8.68	94.5	21.70
Warrick (IN).....	—	—	—	—	—	—	416	11,014	2.52	9.37	96.3	21.22
Southwestern Electric Power Co	8,860	7,653	.85	8.43	149.8	22.94	3,876	8,496	.40	5.02	126.2	21.44
Flint Creek (AR).....	1,327	8,495	.33	4.61	164.0	27.87	1,179	8,490	.38	4.96	108.9	18.50
Welsh Station (TX).....	3,935	8,370	.39	4.69	172.2	28.82	2,697	8,498	.41	5.04	133.7	22.73
Pirkey (TX).....	3,598	6,559	1.54	13.94	111.9	14.68	—	—	—	—	—	—
Southwestern Public Service Co	8,833	8,875	.35	5.40	161.4	28.65	76	8,660	.34	5.37	123.7	21.42
Harrington (TX).....	4,592	9,049	.36	5.46	124.3	22.49	—	—	—	—	—	—
Tolk (TX).....	4,241	8,687	.35	5.32	203.3	35.32	76	8,660	.34	5.37	123.7	21.42
Springfield City of	1,008	10,435	3.11	9.33	116.3	24.27	45	10,226	1.23	8.71	123.4	25.24
Dallman (IL).....	955	10,435	3.11	9.32	116.3	24.28	45	10,226	1.23	8.71	123.4	25.24
Lakeside (IL).....	53	10,431	3.13	9.39	116.1	24.22	—	—	—	—	—	—
Springfield City of	1,615	9,107	.43	5.55	112.2	20.44	—	—	—	—	—	—
James River (MO).....	826	9,438	.49	5.70	119.8	22.62	—	—	—	—	—	—
Southwest (MO).....	789	8,760	.36	5.39	103.7	18.17	—	—	—	—	—	—

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
St Joseph Light & Power Co	—	—	—	—	—	—	434	9,822	1.12	6.92	99.0	19.45
Lakeroad (MO)	—	—	—	—	—	—	434	9,822	1.12	6.92	99.0	19.45
Sunflower Electric Coop Inc	1,601	8,476	0.30	5.03	110.7	18.77	—	—	—	—	—	—
Holcomb (KS)	1,601	8,476	.30	5.03	110.7	18.77	—	—	—	—	—	—
Tacoma Public Utilities	—	—	—	—	—	—	1	10,800	.73	66.06	165.5	35.74
Steam No.2 (WA)	—	—	—	—	—	—	1	10,800	.73	66.06	165.5	35.74
Tampa Electric Co ³	5,407	11,778	2.09	7.91	168.0	39.58	2,746	10,624	1.62	6.15	132.0	28.04
Gannon (FL)	838	12,684	1.21	7.83	242.6	61.55	—	—	—	—	—	—
Davant Transfer (LA)	4,569	11,611	2.25	7.92	153.1	35.55	2,746	10,624	1.62	6.15	132.0	28.04
Tennessee Valley Authority ⁴	33,291	11,489	2.06	10.83	110.6	25.41	9,131	11,956	1.87	10.01	117.9	28.19
Colbert (AL)	1,235	12,028	1.92	12.51	108.7	26.14	332	12,032	.85	10.98	127.8	30.76
Widows Creek (AL)	1,629	11,986	2.51	11.42	120.6	28.92	1,582	12,235	2.26	10.73	124.2	30.39
Paradise (KY)	5,473	10,574	4.42	19.55	95.3	20.16	874	11,093	3.05	11.61	100.9	22.38
Shawnee (KY)	3,027	11,573	.51	9.07	126.6	29.30	572	11,510	1.73	10.17	117.2	26.98
Bull Run (TN)	1,712	12,616	1.43	9.54	113.4	28.62	369	12,501	1.58	9.99	115.6	28.90
Cumberland (TN)	6,022	11,743	2.84	8.97	108.4	25.46	514	12,317	2.90	9.49	109.0	26.84
Gallatin (TN)	45	12,604	2.95	7.98	123.2	31.07	34	12,788	2.48	8.18	111.9	28.62
Sevier (TN)	1,837	12,726	1.47	10.18	128.7	32.75	231	12,548	2.12	11.96	124.5	31.24
Johnsonville (TN)	1,826	12,257	1.73	8.68	107.3	26.30	490	12,008	1.74	9.26	130.8	31.42
Kingston (TN)	2,619	12,461	1.43	9.59	121.5	30.29	1,697	12,545	1.32	9.62	124.3	31.19
GRT Terminal (TN)	5,343	10,784	1.12	7.84	104.1	22.45	1,430	11,631	2.28	9.38	106.2	24.71
Cora Transfer (TN)	2,040	10,203	.43	7.26	104.3	21.29	815	11,371	.56	8.80	120.8	27.47
Cahokia (AL)	484	11,348	.48	9.93	116.2	26.38	191	11,486	.40	9.23	122.7	28.20
Texas Municipal Power Agency	1,081	8,515	.30	5.23	118.7	20.22	539	8,486	.33	5.74	120.8	20.51
Gibbons Creek (TX)	1,081	8,515	.30	5.23	118.7	20.22	539	8,486	.33	5.74	120.8	20.51
Texas-New Mexico Power Co	1,761	6,837	.87	15.27	142.7	19.52	—	—	—	—	—	—
TNP One (TX)	1,761	6,837	.87	15.27	142.7	19.52	—	—	—	—	—	—
Texas Utilities Electric Co ⁵	33,280	6,590	.90	14.28	102.0	13.44	—	—	—	—	—	—
Big Brown (TX)	5,022	6,671	.73	15.31	113.2	15.11	—	—	—	—	—	—
Martin Lake (TX)	13,424	6,666	1.26	11.76	83.2	11.09	—	—	—	—	—	—
Monticello (TX)	11,466	6,437	.48	16.20	118.9	15.31	—	—	—	—	—	—
Sandow No 4 (TX)	3,368	6,685	1.20	16.22	104.6	13.99	—	—	—	—	—	—
Toledo Edison Co	325	11,017	.56	6.99	143.7	31.66	1,405	9,158	.36	5.66	122.4	22.42
Bay Shore (OH)	325	11,017	.56	6.99	143.7	31.66	1,405	9,158	.36	5.66	122.4	22.42
Tri State G & T Assn Inc	4,406	10,203	.42	7.15	113.8	23.23	456	10,052	.43	6.73	57.0	11.46
Nucla (CO)	317	10,907	.85	18.91	103.1	22.50	—	—	—	—	—	—
Craig (CO)	4,089	10,149	.39	6.24	114.7	23.29	456	10,052	.43	6.73	57.0	11.46
Tucson Electric Power Co	3,210	9,322	.79	16.96	137.9	25.71	198	11,270	.47	9.68	191.5	43.16
Irvington (AZ)	10	9,553	.45	15.62	289.2	55.25	198	11,270	.47	9.68	191.5	43.16
Springerville (AZ)	3,199	9,322	.79	16.96	137.4	25.61	—	—	—	—	—	—
Union Electric Co	4,492	9,095	.41	5.22	101.5	18.46	13,125	8,888	.41	5.34	93.5	16.61
Labadie (MO)	3,464	8,726	.29	4.78	93.7	16.36	4,806	8,941	.39	5.37	91.6	16.39
Meramec (MO)	399	11,131	1.08	6.68	131.5	29.28	1,068	9,846	.46	5.83	114.3	22.50
Sioux (MO)	355	10,671	.95	8.41	132.1	28.20	2,702	9,058	.57	5.41	93.6	16.96
Rush Island (MO)	274	8,750	.22	4.50	95.0	16.63	4,549	8,507	.32	5.15	89.7	15.27
United Illuminating Co	493	13,153	.51	7.02	184.7	48.58	164	13,091	.59	6.12	170.3	44.59
Bridgeport Harbor (CT)	493	13,153	.51	7.02	184.7	48.58	164	13,091	.59	6.12	170.3	44.59
United Power Assn	917	6,720	.74	7.90	71.7	9.64	—	—	—	—	—	—
Stanton (ND)	917	6,720	.74	7.90	71.7	9.64	—	—	—	—	—	—

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 30. Receipts and Average Delivered Cost of Coal by Type of Purchase, Electric Utility, and Plant, 1998 (Continued)

Electric Utility Plant (State)	Contract						Spot					
	Receipts (1000 short tons)	Average Quality			Average Delivered Cost		Receipts (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)
UtiliCorp United Inc	1,606	9,614	0.38	5.87	90.1	17.33	—	—	—	—	—	—
Sibley (MO)	1,606	9,614	.38	5.87	90.1	17.33	—	—	—	—	—	—
Vineland City of	26	12,868	.78	6.21	192.2	49.48	—	—	—	—	—	—
H M Down (NJ)	26	12,868	.78	6.21	192.2	49.48	—	—	—	—	—	—
Virginia Electric & Power Co	10,088	12,451	1.28	11.78	128.5	31.99	3,993	12,452	1.21	10.80	131.2	32.68
Bremo Bluff (VA)	428	11,989	.81	11.72	140.5	33.70	122	12,550	.92	9.49	139.4	34.98
Chesterfield (VA)	1,440	12,802	1.09	8.18	141.3	36.18	1,534	12,669	1.04	8.64	138.4	35.06
Chesapeake Energy (VA)	1,372	12,851	.95	8.71	142.7	36.68	261	12,777	1.03	8.79	143.1	36.55
Possum Point (VA)	815	12,084	.83	11.50	142.0	34.31	84	12,732	1.12	8.86	145.6	37.09
Yorktown (VA)	557	12,853	1.42	7.00	148.2	38.09	174	12,259	1.49	10.16	144.4	35.40
Mount Storm (WV)	3,930	12,184	1.68	15.53	112.5	27.41	989	12,089	1.59	15.27	115.5	27.92
Clover (VA)	1,546	12,622	1.04	10.23	125.4	31.66	829	12,381	1.14	10.62	126.7	31.38
West Penn Power Co	4,657	12,787	2.32	9.45	134.9	34.50	364	12,532	2.04	10.16	102.9	25.78
Armstrong (PA)	601	12,584	1.81	9.84	110.8	27.88	364	12,532	2.04	10.16	102.9	25.78
Hatfield (PA)	3,391	12,924	2.19	9.14	140.3	36.27	—	—	—	—	—	—
Mitchell (PA)	665	12,274	3.42	10.65	128.1	31.45	—	—	—	—	—	—
West Texas Utilities Co	2,142	8,456	.42	5.24	136.5	23.08	971	8,492	.33	5.01	101.4	17.23
Oklahoma (TX)	2,142	8,456	.42	5.24	136.5	23.08	971	8,492	.33	5.01	101.4	17.23
Western Farmers Elec Coop Inc	1,604	8,745	.35	5.36	100.5	17.58	101	8,429	.45	5.16	83.4	14.06
Hugo (OK)	1,604	8,745	.35	5.36	100.5	17.58	101	8,429	.45	5.16	83.4	14.06
Wisconsin Electric Power Co	8,732	9,784	.55	6.28	106.8	20.90	1,683	10,646	.79	6.01	119.7	25.49
Presque Isle (MI)	1,764	10,121	.44	6.75	124.7	25.23	37	11,710	.56	5.43	156.7	36.70
Oak Creek (WI)	1,458	10,958	.68	8.66	129.7	28.42	1,115	10,716	.82	5.82	122.8	26.32
Port Washington (WI)	363	13,232	1.30	7.01	138.1	36.54	231	13,068	1.30	7.18	139.6	36.48
Valley (WI)	706	13,120	1.60	7.27	150.5	39.49	—	—	—	—	—	—
Pleasant Prairie (WI)	4,441	8,453	.33	5.09	73.8	12.47	299	8,380	.31	5.90	74.6	12.50
Wisconsin Power & Light Co	5,876	8,674	.40	5.40	108.9	18.89	2,491	8,639	.36	5.64	102.8	17.77
Edgewater (WI)	2,067	8,584	.34	5.35	120.6	20.70	817	8,840	.39	5.39	118.3	20.91
Nelson Dewey (WI)	516	9,323	.34	4.28	120.0	22.38	24	12,075	.90	5.52	145.5	35.15
Rock River (WI)	309	9,347	.35	4.26	121.8	22.77	61	11,093	.65	5.15	151.9	33.71
Columbia (WI)	2,984	8,554	.45	5.74	97.2	16.64	1,588	8,387	.33	5.78	91.0	15.27
Wisconsin Public Service Corp	3,553	8,847	.23	4.60	103.3	18.27	12	8,356	.29	5.90	93.3	15.59
Pulliam (WI)	1,479	8,866	.19	4.39	97.2	17.23	—	—	—	—	—	—
Weston (WI)	2,074	8,833	.26	4.75	107.6	19.01	12	8,356	.29	5.90	93.3	15.59
Wyandotte Municipal Serv Comm	111	12,506	1.13	11.06	141.6	35.41	—	—	—	—	—	—
Wyandotte (MI)	111	12,506	1.13	11.06	141.6	35.41	—	—	—	—	—	—
Total	749,553	10,074	1.03	9.28	126.5	25.50	179,895	10,937	1.20	8.79	119.8	26.21

¹ Most coal destined for the Barry plant is reported by the Alabama Power Company as it is received at the Gorgas Transshipping Facility.

² The cost reported under IMT Transfer (Louisiana) is the weighted average cost of coal delivered to this facility. Florida Power Corporation incurs additional costs for transporting coal from the transfer facility to the Crystal River power plant. These costs are not included in data shown in this report. When aggregated at the State level, data for this transfer facility are shown as though the coal were delivered to Florida.

³ The cost reported under Davant Transfer (Louisiana) is the weighted average cost of coal delivered to this facility located in Louisiana. The Tampa Electric Company incurs additional costs for transporting this coal from Davant to its power plants which are located in Florida. These costs are not included in data shown in this report. When aggregated at the State level, data for this transfer facility are shown as though the coal were delivered to Florida.

⁴ Coal reported as delivered to the Cahokia, Cora, and GRT transfer facilities is later transferred to individual electric plants located in Alabama, Kentucky, and Tennessee. The cost of transportation from these facilities to the electric plants is not included in the costs shown in this report. Coal delivered to Cahokia is later transferred primarily to the Colbert and Widows Creek plants in Alabama. Approximately 90 percent of the coal delivered to the Cora facility is transferred to the Allen plant. Most of the remaining coal is transferred to the Paradise plant. All coal delivered to the Cora facility is shown in this report as being delivered to Tennessee. Approximately 60 percent of the coal delivered to the GRT facility is later delivered to the Gallatin plant. Widdows Creek, Johnsonville, Paradise, and Cumberland each receive approximately 8 percent. Colbert and Shawnee each receive approximately 4 percent. All coal delivered to GRT is shown in this report as being delivered to Tennessee.

⁵ Data for Texas Utilities Electric Company include lignite delivered for the Aluminium Company of America (ALCOA) portion of Unit 4 of the Sandow Plant.

* = Number less than 0.5.

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

Table 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		C o a l	P e t r o l e u m	G a s
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Alabama Electric Coop Inc	1,510	133.6	32.31	2.13	6	373.6	20.48	0.05	—	—	—	100	*	—
Lowman (AL).....	1,510	133.6	32.31	2.13	6	373.6	20.48	.05	—	—	—	100	*	—
Alabama Power Co³	23,958	168.3	38.28	.89	65	273.3	16.09	.00	1,731	247.5	2.59	100	*	*
Barry (AL).....	3,318	197.1	48.25	.72	—	—	—	—	630	253.5	2.77	99	—	1
Gadsden (AL).....	233	157.9	40.16	1.87	*	359.4	20.83	.00	294	238.0	2.42	95	*	5
Gorgas 2 and 3 (AL).....	4,449	166.3	40.50	1.62	22	279.4	16.45	.00	—	—	—	100	*	—
Greene (AL).....	1,559	122.5	29.55	1.78	1	327.0	19.26	.00	11	276.1	2.86	100	*	*
Gaston (AL).....	4,534	176.7	44.05	.96	39	268.7	15.80	.00	—	—	—	100	*	—
James Miller (AL).....	9,865	161.7	32.61	.41	2	248.8	14.77	.00	796	245.5	2.50	100	*	*
Alexandria City of	—	—	—	—	—	—	—	—	1,725	158.9	1.66	—	—	100
Alexandria-Hunter (LA).....	—	—	—	—	—	—	—	—	1,725	158.9	1.66	—	—	100
American Mun Power Ohio Inc	826	83.5	19.35	5.18	—	—	—	—	62	384.6	4.00	100	—	*
Gorsuch (OH).....	826	83.5	19.35	5.18	—	—	—	—	62	384.6	4.00	100	—	*
Ames City of	231	145.8	25.86	.18	9	335.1	19.32	.20	—	—	—	99	1	—
Ames (IA).....	231	145.8	25.86	.18	9	335.1	19.32	.20	—	—	—	99	1	—
Anchorage City of	—	—	—	—	—	—	—	—	6,148	203.9	2.04	—	—	100
George Sullivan (AK).....	—	—	—	—	—	—	—	—	6,148	203.9	2.04	—	—	100
Appalachian Power Co	12,419	139.0	34.04	.75	215 ²	367.6	21.46	.02	—	—	—	100	*	—
Clinch River (VA).....	1,889	129.7	32.13	.75	8	347.1	20.32	.04	—	—	—	100	*	—
Glen Lyn (VA).....	715	137.9	35.30	.89	26	351.8	20.48	.00	—	—	—	99	1	—
Amos (WV).....	6,032	141.4	34.41	.78	1522	366.2	21.42	.03	—	—	—	99	1	—
Kanawha River (WV).....	1,017	131.9	32.32	.81	4	446.4	26.01	.00	—	—	—	100	*	—
Mountaineer (WV).....	2,765	143.0	34.82	.65	25	387.4	22.38	*	—	—	—	100	*	—
Arizona Electric Pwr Coop Inc	1,360	114.0	21.97	.55	—	—	—	—	1,700	196.5	2.00	94	—	6
Apache (AZ).....	1,360	114.0	21.97	.55	—	—	—	—	1,700	196.5	2.00	94	—	6
Arizona Public Service Co	12,145	113.3	20.76	.66	62	402.6	23.35	.05	18,064	253.0	2.57	92	*	8
Cholla (AZ).....	3,851	137.5	26.68	.44	6	507.6	29.45	.05	25	321.8	3.28	100	*	*
Ocotillo (AZ).....	—	—	—	—	—	—	—	—	3,747	250.6	2.54	—	—	100
Phoenix (AZ).....	—	—	—	—	56	391.4	22.70	.05	6,297	259.7	2.63	—	5	95
Saguaro (AZ).....	—	—	—	—	—	—	—	—	2,210	240.0	2.44	—	—	100
Yucca (AZ).....	—	—	—	—	—	—	—	—	4,156	217.6	2.21	—	—	100
Four Corners (NM).....	8,294	101.0	18.01	.76	—	—	—	—	1,629	340.2	3.44	99	—	1
Arkansas Power & Light Co	11,667	149.1	25.97	.28	78	375.7	22.31	.50	22,561	224.0	2.29	90	*	10
Couch (AR).....	—	—	—	—	—	—	—	—	4,430	205.2	2.18	—	—	100
Lake Catherine (AR).....	—	—	—	—	—	—	—	—	12,956	229.1	2.32	—	—	100
Ritchie (AR).....	—	—	—	—	—	—	—	—	5,175	228.2	2.31	—	—	100
Whitebluff (AR).....	5,935	159.0	27.37	.34	36	378.3	22.47	.50	—	—	—	100	*	—
Independence (AR).....	5,732	139.1	24.52	.22	43	373.4	22.18	.50	—	—	—	100	*	—
Associated Electric Coop Inc	9,376	85.0	15.01	.19	—	—	—	—	—	—	—	100	—	—
Madrid (MO).....	4,717	95.9	16.94	.19	—	—	—	—	—	—	—	100	—	—
Hill (MO).....	4,659	73.9	13.06	.19	—	—	—	—	—	—	—	100	—	—
Atlantic City Electric Co	676	184.9	47.35	1.99	356	242.8	15.34	.67	220 ²	282.0	2.97	88	11	1
England (NJ).....	506	181.5	46.43	2.36	350	240.1	15.19	.68	—	—	—	86	14	—
Deepwater (NJ).....	170	194.9	50.11	.91	6	419.1	23.90	.10	2202	282.0	2.97	94	1	5
Austin City of	—	—	—	—	—	—	—	—	34,231	233.9	2.38	—	—	100
Decker Creek (TX).....	—	—	—	—	—	—	—	—	22,728	230.7	2.35	—	—	100
Holly (TX).....	—	—	—	—	—	—	—	—	11,503	240.2	2.45	—	—	100
Baltimore Gas & Electric Co	5,058	139.9	35.76	.88	1,903	208.5	13.25	.96	3,552	256.6	2.69	89	8	3
Brandon Shores (MD).....	3,255	139.9	35.29	.70	23	307.2	17.94	.17	—	—	—	100	*	—
Crane (MD).....	745	139.6	37.13	1.67	2	312.8	18.31	.10	—	—	—	100	*	—
Gould St (MD).....	—	—	—	—	124	215.0	13.71	.98	928	255.2	2.67	—	45	55

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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Baltimore Gas & Electric Co														
Wagner (MD).....	1,058	140.0	36.21	0.85	1,754	206.7	13.15	0.97	2,067	257.3	2.69	67	27	5
Riverside (MD).....	—	—	—	—	—	—	—	—	556	256.1	2.68	—	—	100
Basin Electric Power Coop.....	17,198	59.8	8.90	.56	62	329.3	19.05	.35	—	—	—	100	*	—
Leland Olds (ND).....	3,597	78.6	10.57	.73	11	298.3	17.27	.34	—	—	—	100	*	—
Laramie River (WY).....	7,845	45.6	7.67	.39	37	374.1	21.66	.34	—	—	—	100	*	—
Antelope Valley (ND).....	5,755	72.6	9.52	.69	14	238.4	13.76	.40	—	—	—	100	*	—
Big Rivers Electric Corp.....	3,023	96.9	21.78	2.95	16	326.4	18.92	.00	30	380.2	3.80	100	*	*
Coleman (KY).....	662	108.8	24.72	1.49	—	—	—	—	30	380.2	3.80	100	—	*
Reid-Henderson (KY).....	591	100.6	23.55	2.90	16	326.4	18.92	.00	—	—	—	99	1	—
R D Green (KY).....	904	89.2	19.08	3.49	—	—	—	—	—	—	—	100	—	—
Wilson (KY).....	865	93.0	21.15	3.54	—	—	—	—	—	—	—	100	—	—
Black Hills Corp.....	518	45.9	7.39	.66	3	437.7	26.26	.04	—	—	—	100	*	—
Neal Simpson II (WY).....	518	45.9	7.39	.66	3	437.7	26.26	.04	—	—	—	100	*	—
Boston Edison Co.....	—	—	—	—	2,201	205.7	13.10	.91	6,767	331.2	3.43	—	67	33
Mystic (MA).....	—	—	—	—	2,201	205.7	13.10	.91	180	260.5	2.84	—	99	1
New Boston (MA).....	—	—	—	—	—	—	—	—	6,587	333.2	3.45	—	—	100
Braintree City of.....	—	—	—	—	5	237.6	13.85	.18	751	245.5	2.53	—	4	96
Potter Station (MA).....	—	—	—	—	5	237.6	13.85	.18	751	245.5	2.53	—	4	96
Brazos Electric Power Coop Inc .	—	—	—	—	—	—	—	—	20,034	223.2	2.26	—	—	100
North Texas (TX).....	—	—	—	—	—	—	—	—	828	217.3	2.24	—	—	100
Miller (TX).....	—	—	—	—	—	—	—	—	19,206	223.5	2.26	—	—	100
Bryan City of.....	—	—	—	—	—	—	—	—	7,925	213.5	2.19	—	—	100
Bryan (TX).....	—	—	—	—	—	—	—	—	2,476	210.8	2.16	—	—	100
Dansby (TX).....	—	—	—	—	—	—	—	—	5,448	214.8	2.20	—	—	100
Burbank City of.....	—	—	—	—	—	—	—	—	1,093	276.8	2.83	—	—	100
Magnolia-Olive (CA).....	—	—	—	—	—	—	—	—	1,093	276.8	2.83	—	—	100
Burlington City of.....	—	—	—	—	4	327.1	18.70	.39	187	286.1	2.90	92	1	7
J C McNeil (VT).....	—	—	—	—	4	327.1	18.70	.39	187	286.1	2.90	92	1	7
Cajun Electric Power Coop Inc.....	6,730	148.1	25.18	.43	46	300.7	17.68	.04	6,511	226.8	2.37	94	*	6
Big Cajun No.1 (LA).....	—	—	—	—	—	—	—	—	6,511	226.8	2.37	—	—	100
Big Cajun No.2 (LA).....	6,730	148.1	25.18	.43	46	300.7	17.68	.04	—	—	—	100	*	—
Cambridge Electric Light Co.....	—	—	—	—	144	263.1	16.51	.37	706	243.3	2.43	—	56	44
Kendall Square (MA).....	—	—	—	—	144	263.1	16.51	.37	706	243.3	2.43	—	56	44
Canal Electric Co.....	—	—	—	—	9,870	185.1	11.77	.93	3,124	286.8	2.96	—	95	5
Canal (MA).....	—	—	—	—	9,870	185.1	11.77	.93	3,124	286.8	2.96	—	95	5
Cardinal Operating Co.....	4,404	158.2	38.78	1.70	26	336.1	19.37	.00	—	—	—	100	*	—
Cardinal (OH).....	4,404	158.2	38.78	1.70	26	336.1	19.37	.00	—	—	—	100	*	—
Carolina Power & Light Co.....	12,369	148.4	36.63	.91	322	312.7	18.12	.20	—	—	—	99	1	—
Asheville (NC).....	1,007	143.3	35.96	1.01	7	330.4	19.13	.20	—	—	—	100	*	—
Cape Fear (NC).....	799	147.8	36.31	.95	79	307.7	17.83	.20	—	—	—	98	2	—
Lee (NC).....	765	152.7	37.72	.94	67	301.2	17.46	.20	—	—	—	98	2	—
Roxboro (NC).....	5,828	147.7	36.40	.91	58	322.9	18.71	.20	—	—	—	100	*	—
Sutton (NC).....	1,306	148.6	37.07	.99	75	316.1	18.32	.20	—	—	—	99	1	—
Weatherspoon (NC).....	324	162.7	41.71	.93	13	300.3	17.41	.20	—	—	—	99	1	—
Robinson (SC).....	415	149.6	36.41	1.33	8	348.3	20.19	.20	—	—	—	100	*	—
Mayo (NC).....	1,926	148.9	36.27	.69	15	317.9	18.41	.20	—	—	—	100	*	—
Cedar Falls City of.....	25	141.7	36.34	2.73	—	—	—	—	130	252.9	2.53	83	—	17
Streeter (IA).....	25	141.7	36.34	2.73	—	—	—	—	130	252.9	2.53	83	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		C o a l	P e t r o - l e u m	G a s
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Central Electric Pwr Coop-MO	151	129.3	28.22	2.71	*	498.5	28.78	0.04	—	—	—	100	*	—
Chamois (MO).....	151	129.3	28.22	2.71	*	498.5	28.78	.04	—	—	—	100	*	—
Central Hudson Gas & Elec Corp	990	168.0	43.72	.64	5,091	188.5	11.96	1.20	6,173	242.5	2.47	40	50	10
Danskammer (NY).....	990	168.0	43.72	.64	—	—	—	—	2,261	231.7	2.36	92	—	8
Roseton (NY).....	—	—	—	—	5,091	188.5	11.96	1.20	3,912	248.8	2.53	—	89	11
Central Illinois Light Co	2,898	143.7	31.29	2.53	15	414.5	24.13	.04	—	—	—	100	*	—
Edwards (IL).....	1,679	126.9	27.92	2.07	11	420.7	24.46	.04	—	—	—	100	*	—
Duck Creek (IL).....	1,219	167.3	35.93	3.16	4	396.6	23.17	.05	—	—	—	100	*	—
Central Illinois Pub Serv Co	6,218	141.0	28.66	.98	238	296.2	18.39	.30	—	—	—	99	1	—
Coffeen (IL).....	2,029	169.2	34.65	1.07	11	364.3	21.12	.16	—	—	—	100	*	—
Grand Tower (IL).....	334	98.1	21.70	3.02	2	330.7	19.12	.28	—	—	—	100	*	—
Hutsonville (IL).....	219	108.5	24.21	2.68	5	355.4	20.57	.29	—	—	—	99	1	—
Meredosia (IL).....	569	128.6	27.87	2.07	206	287.8	18.06	.31	—	—	—	91	9	—
Newton (IL).....	3,067	131.9	25.91	.38	14	350.5	20.27	.27	—	—	—	100	*	—
Central Iowa Power Coop	147	115.1	26.35	2.87	20	352.9	20.60	.05	5	384.1	3.89	97	3	*
Summit Lake (IA).....	—	—	—	—	20	352.9	20.60	.05	—	—	—	—	100	—
Fair Station (IA).....	147	115.1	26.35	2.87	—	—	—	—	5	384.1	3.89	100	—	*
Central Louisiana Elec Co Inc	5,172	137.7	20.17	.79	—	—	—	—	34,407	217.9	2.28	68	—	32
Dolet Hills (LA).....	3,555	136.8	18.49	.92	—	—	—	—	139	296.8	3.04	100	—	*
Coughlin (LA).....	—	—	—	—	—	—	—	—	8,315	219.6	2.30	—	—	100
Teche (LA).....	—	—	—	—	—	—	—	—	14,957	220.3	2.31	—	—	100
Rodemacher (LA).....	1,617	139.2	23.86	.51	—	—	—	—	10,996	212.2	2.22	71	—	29
Central Maine Power Co	—	—	—	—	3,204	202.1	12.84	1.25	—	—	—	—	100	—
Mason (ME).....	—	—	—	—	42	268.7	17.00	.28	—	—	—	—	100	—
Wyman (ME).....	—	—	—	—	3,161	201.2	12.78	1.26	—	—	—	—	100	—
Central Operating Co	2,487	122.5	29.79	1.50	25	378.9	21.79	.01	—	—	—	100	*	—
Sporn (WV).....	2,487	122.5	29.79	1.50	25	378.9	21.79	.01	—	—	—	100	*	—
Central Power & Light Co	2,499	139.4	27.37	.37	4	349.5	20.55	.50	132,695	209.8	2.16	27	*	73
Joslin (TX).....	—	—	—	—	—	—	—	—	6,631	210.6	2.17	—	—	100
Bates (TX).....	—	—	—	—	—	—	—	—	7,785	207.3	2.13	—	—	100
Laredo (TX).....	—	—	—	—	—	—	—	—	8,227	213.0	2.25	—	—	100
Hill (TX).....	—	—	—	—	—	—	—	—	19,772	207.2	2.12	—	—	100
Nueces Bay (TX).....	—	—	—	—	—	—	—	—	29,674	210.8	2.16	—	—	100
La Palma (TX).....	—	—	—	—	—	—	—	—	9,955	208.4	2.14	—	—	100
Victoria (TX).....	—	—	—	—	—	—	—	—	9,530	210.9	2.18	—	—	100
Davis (TX).....	—	—	—	—	—	—	—	—	41,121	210.0	2.15	—	—	100
Coletto Creek (TX).....	2,499	139.4	27.37	.37	4	349.5	20.55	.50	—	—	—	100	*	—
Chugach Electric Assn Inc	—	—	—	—	—	—	—	—	12,739	168.1	1.68	—	—	100
Beluga (AK).....	—	—	—	—	—	—	—	—	12,739	168.1	1.68	—	—	100
Cincinnati Gas & Electric Co	11,563	111.1	26.76	2.20	172	335.4	19.30	.22	—	—	—	100	*	—
Beckjord (OH).....	3,163	113.4	27.26	1.29	54	327.1	18.85	.35	—	—	—	100	*	—
Miami Fort (OH).....	2,991	121.7	29.13	1.13	48	352.4	20.33	.09	—	—	—	100	*	—
East Bend (KY).....	1,696	104.9	25.42	2.58	18	329.7	18.90	.27	—	—	—	100	*	—
Zimmer (OH).....	3,712	103.4	25.04	3.67	51	330.1	18.94	.20	—	—	—	100	*	—
Cleveland Electric Illum Co	4,383	138.1	35.55	1.87	46	359.5	20.86	.29	—	—	—	100	*	—
Ashtabula (OH).....	345	103.2	26.07	3.70	5	339.3	19.71	.04	—	—	—	100	*	—
Avon Lake (OH).....	1,334	140.9	35.68	.89	10	364.8	21.17	.33	—	—	—	100	*	—
Eastlake (OH).....	2,573	140.4	36.52	2.20	15	371.4	21.55	.32	—	—	—	100	*	—
Lake Shore (OH).....	132	154.2	40.13	.71	15	350.9	20.34	.33	—	—	—	97	3	—
Coffeyville City of	—	—	—	—	—	—	—	—	1,098	219.1	2.19	—	—	100
Coffeyville (KS).....	—	—	—	—	—	—	—	—	1,098	219.1	2.19	—	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Colorado Springs City of	1,590	127.6	26.96	0.40	—	—	—	—	748	357.6	3.53	98	—	2
Drake (CO).....	771	167.5	35.06	.36	—	—	—	—	191	359.4	3.55	99	—	1
Birdsall (CO).....	—	—	—	—	—	—	—	—	557	357.0	3.52	—	—	100
Nixon (CO).....	818	90.6	19.33	.43	—	—	—	—	—	—	—	100	—	—
Columbia City of	28	202.2	53.36	1.19	—	—	—	—	—	—	—	100	—	—
Columbia (MO).....	28	202.2	53.36	1.19	—	—	—	—	—	—	—	100	—	—
Columbus Southern Power Co	4,367	139.7	33.27	2.76	16	326.6	19.29	0.01	—	—	—	100	*	—
Conesville (OH).....	4,208	141.0	33.63	2.74	13	327.5	19.35	.01	—	—	—	100	*	—
Picway (OH).....	158	103.3	23.77	3.29	3	322.4	19.01	.01	—	—	—	100	*	—
Commonwealth Edison Co⁴	15,626	222.6	39.43	.35	770	250.1	15.79	.62	48,140	220.0	2.24	84	1	14
Crawford (IL).....	25	131.3	22.69	.20	—	—	—	—	—	—	—	100	—	—
Joliet (IL).....	3,763	284.8	49.80	.36	—	—	—	—	—	—	—	100	—	—
Kincaid (IL).....	361	178.7	40.18	1.22	—	—	—	—	2	386.0	3.90	100	—	*
Powerton (IL).....	3,570	198.6	34.68	.26	—	—	—	—	122	372.7	3.73	100	—	*
Waukegan (IL).....	2,536	208.5	36.30	.45	—	—	—	—	—	—	—	100	—	—
Will County (IL).....	5,371	206.1	36.81	.30	126	298.8	17.45	.25	—	—	—	99	1	—
Collins (IL).....	—	—	—	—	644	241.4	15.46	.69	45,924	219.5	2.24	15	7	78
Fisk Storage (IL).....	—	—	—	—	—	—	—	—	2,091	221.3	2.27	—	—	100
Connecticut Light & Power Co	—	—	—	—	9,908	218.6	13.98	.71	10,340	237.0	2.44	—	86	14
Devon (CT).....	—	—	—	—	1,739	220.0	14.05	.93	1,885	228.3	2.32	—	85	15
Montville (CT).....	—	—	—	—	2,429	206.4	13.50	.72	129	278.3	2.86	—	99	1
Norwalk Harbor (CT).....	—	—	—	—	2,770	217.0	13.83	.85	—	—	—	—	100	—
Middletown (CT).....	—	—	—	—	2,970	229.7	14.48	.45	8,325	238.3	2.46	—	69	31
Consolidated Edison Co-NY Inc	—	—	—	—	4,804	219.1	13.71	.27	88,847	233.7	2.41	—	25	75
Arthur Kill (NY).....	—	—	—	—	—	—	—	—	12,549	224.4	2.31	—	—	100
East River (NY).....	—	—	—	—	400	243.7	15.30	.29	3,490	234.5	2.42	—	41	59
Ravenswood (NY).....	—	—	—	—	157	221.7	13.95	.28	32,088	234.7	2.42	—	3	97
Waterside (NY).....	—	—	—	—	—	—	—	—	6,284	238.4	2.46	—	—	100
Astoria (NY).....	—	—	—	—	682	215.2	13.59	.28	34,436	235.1	2.42	—	11	89
Storage Facility #7.....	—	—	—	—	2,172	219.0	13.64	.27	—	—	—	—	—	100
Storage Facility #5.....	—	—	—	—	956	212.1	13.29	.27	—	—	—	—	—	100
Storage Facility #3.....	—	—	—	—	434	218.1	13.68	.29	—	—	—	—	—	100
Consumers Power Co	8,395	142.9	31.74	.67	1,354	253.9	16.27	.91	3,791	259.0	2.60	94	4	2
Cobb (MI).....	1,162	121.1	23.99	.66	2	316.7	18.36	.50	—	—	—	100	*	—
Karn-Weadock (MI).....	952	152.6	37.19	.84	1,254	249.4	16.10	.94	3,791	259.0	2.60	66	23	11
Campbell (MI).....	4,059	150.0	34.02	.64	23	301.3	17.46	.50	—	—	—	100	*	—
Weadock (MI).....	1,370	127.0	25.72	.57	68	321.8	18.65	.50	—	—	—	99	1	—
Whiting (MI).....	851	146.6	35.00	.83	6	330.7	19.17	.50	—	—	—	100	*	—
Coop Power Assn	7,046	81.1	10.13	.68	—	—	—	—	—	—	—	100	—	—
Coal Creek (ND).....	7,046	81.1	10.13	.68	—	—	—	—	—	—	—	100	—	—
Dairyland Power Coop	2,554	112.6	21.95	.41	15	342.6	20.15	.50	—	—	—	100	*	—
Alma-Madgett (WI).....	1,673	104.6	19.35	.31	8	342.3	20.12	.50	—	—	—	100	*	—
Genoa No.3 (WI).....	881	125.8	26.87	.58	7	343.1	20.18	.50	—	—	—	100	*	—
Dayton Power & Light Co	8,366	125.4	29.24	.79	83	315.4	18.22	.25	366	447.5	4.56	100	*	*
Hutchings (OH).....	369	137.6	34.49	.83	—	—	—	—	366	447.5	4.56	96	—	4
Stuart (OH).....	5,962	123.9	28.56	.84	43	323.7	18.65	.35	—	—	—	100	*	—
Killen (OH).....	2,034	127.3	30.29	.63	40	306.4	17.75	.13	—	—	—	100	*	—
Delmarva Power & Light Co	1,744	156.3	40.52	.98	2,302	207.5	13.19	.92	11,050 ²	297.6	2.89	64	21	15
Edgemoor (DE).....	538	158.9	40.27	.73	1,729	207.8	13.22	.66	2,963	178.9	1.41	51	41	9
Indian River (DE).....	1,206	155.2	40.63	1.09	70	319.9	18.61	.21	—	—	—	99	1	—
Vienna (MD).....	—	—	—	—	503	192.5	12.31	1.92	—	—	—	—	—	100
Hay Road (DE).....	—	—	—	—	—	—	—	—	8,086	330.7	3.43	—	—	100
Denton City of	—	—	—	—	—	—	—	—	4,026	242.5	2.55	—	—	100
Spencer (TX).....	—	—	—	—	—	—	—	—	4,026	242.5	2.55	—	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Deseret Generation & Tran Coop	1,723	193.2	39.22	0.43	5	558.0	32.34	0.00	—	—	—	100	*	—
Bonanza (UT).....	1,723	193.2	39.22	.43	5	558.0	32.34	.00	—	—	—	100	*	—
Detroit City of	—	—	—	—	206	385.9	23.60	.68	2,144	329.4	3.41	—	36	64
Mistersky (MI).....	—	—	—	—	206	385.9	23.60	.68	2,144	329.4	3.41	—	36	64
Detroit Edison Co	22,811	128.7	26.61	.66	826	297.7	17.72	.45	34,602	212.3	.97	96	1	3
Harbor Beach (MI).....	151	151.8	40.55	.81	7	386.8	22.22	.18	—	—	—	99	1	—
Marysville (MI).....	83	149.0	39.19	.75	—	—	—	—	193	304.6	3.05	92	—	8
Monroe (MI).....	9,119	115.1	24.85	.76	62	374.4	21.60	.25	—	—	—	100	*	—
River Rouge (MI).....	1,583	117.9	25.31	.62	3	354.9	20.52	.21	23,096	147.7	.27	89	*	11
St Clair (MI).....	5,353	145.1	28.88	.71	121	370.8	21.54	.16	307	298.4	3.02	99	1	*
Trenton Channel (MI).....	2,055	113.7	24.05	.72	16	337.5	19.52	.24	—	—	—	100	*	—
Belle River (MI).....	4,467	149.9	28.39	.35	44	344.3	19.87	.21	—	—	—	100	*	—
Greenwood (MI).....	—	—	—	—	573	269.1	16.21	.56	11,008	232.5	2.35	—	25	75
Dover City of	—	—	—	—	318	231.3	14.62	.81	99	311.0	3.21	—	95	5
Mckee Run (DE).....	—	—	—	—	318	231.3	14.62	.81	99	311.0	3.21	—	95	5
Duke Power Co	16,299	140.5	34.96	.89	107	304.4	17.74	.30	—	—	—	100	*	—
Allen (NC).....	1,759	141.1	35.37	.78	30	303.4	17.71	.30	—	—	—	100	*	—
Buck (NC).....	670	141.3	33.63	1.00	—	—	—	—	—	—	—	100	—	—
Cliffside (NC).....	1,589	134.3	33.97	.91	12	319.2	18.63	.30	—	—	—	100	*	—
Dan River (NC).....	392	138.9	34.53	1.04	—	—	—	—	—	—	—	100	—	—
Marshall (NC).....	4,674	131.6	32.56	.98	34	303.7	17.67	.30	—	—	—	100	*	—
Riverbend (NC).....	789	136.6	33.89	.99	—	—	—	—	—	—	—	100	—	—
Lee (SC).....	435	145.9	36.56	.89	15	293.8	17.10	.30	—	—	—	99	1	—
Belews Creek (NC).....	5,991	149.2	37.18	.81	16	306.3	17.85	.30	—	—	—	100	*	—
Duquesne Light Co	2,091	163.0	41.18	1.98	76	312.5	18.05	.15	247	349.3	3.63	99	1	*
Brunot Is (PA).....	—	—	—	—	43	320.8	18.55	.12	—	—	—	—	100	—
Elrama (PA).....	1,121	206.9	51.04	2.06	33	301.7	17.40	.18	—	—	—	99	1	—
Cheswick (PA).....	970	114.7	29.79	1.90	—	—	—	—	247	349.3	3.63	99	—	1
East Kentucky Power Coop Inc	3,752	114.0	28.10	.84	17	333.8	19.43	.14	—	—	—	100	*	—
Cooper (KY).....	783	113.3	27.96	1.18	4	332.0	19.32	.20	—	—	—	100	*	—
Dale (KY).....	466	112.7	27.80	.85	6	328.1	19.10	.12	—	—	—	100	*	—
Spurlock (KY).....	2,503	114.4	28.20	.73	7	339.6	19.77	.12	—	—	—	100	*	—
El Paso Electric Co	—	—	—	—	—	—	—	—	33,784	203.1	2.08	—	—	100
Rio Grande (TX).....	—	—	—	—	—	—	—	—	10,544	198.7	2.03	—	—	100
Newman (TX).....	—	—	—	—	—	—	—	—	23,240	205.1	2.10	—	—	100
Electric Energy Inc	5,191	83.3	14.55	.22	4	422.9	24.31	.20	354	258.9	2.74	100	*	*
Joppa (IL).....	5,191	83.3	14.55	.22	4	422.9	24.31	.20	354	258.9	2.74	100	*	*
Empire District Electric Co	1,212	106.9	19.71	.58	3	334.6	19.60	.07	702	229.5	2.30	97	*	3
Riverton (KS).....	318	116.6	22.52	.93	—	—	—	—	702	229.5	2.30	90	—	10
Asbury (MO).....	893	103.2	18.71	.45	3	334.6	19.60	.07	—	—	—	100	*	—
Fayetteville Public Works Comm	—	—	—	—	—	—	—	—	1,879	267.9	2.81	—	—	100
Butler Warner (NC).....	—	—	—	—	—	—	—	—	1,879	267.9	2.81	—	—	100
Florida Power & Light Co	—	—	—	—	40,910	207.7	13.18	1.39	189,533	276.3	2.91	—	57	43
Cape Canaveral (FL).....	—	—	—	—	3,973	208.1	13.21	1.44	8,632	277.0	2.92	—	74	26
Cutler (FL).....	—	—	—	—	—	—	—	—	3,000	268.0	2.83	—	—	100
Fort Myers (FL).....	—	—	—	—	5,200	183.2	11.68	2.02	—	—	—	—	100	—
Lauderdale (FL).....	—	—	—	—	32	320.0	17.93	.20	51,192	277.3	2.92	—	*	100
Port Everglades (FL).....	—	—	—	—	6,335	211.6	13.42	1.00	8,338	280.8	2.96	—	82	18
Riviera (FL).....	—	—	—	—	4,165	183.5	11.74	2.02	4,904	278.1	2.93	—	84	16
Sanford (FL).....	—	—	—	—	4,777	209.8	13.24	2.07	8,305	277.7	2.92	—	78	22
Turkey Point (FL).....	—	—	—	—	3,301	222.9	14.12	1.02	13,386	267.0	2.81	—	60	40
Manatee (FL).....	—	—	—	—	8,944	214.7	13.60	.99	—	—	—	—	100	—
Martin (FL).....	—	—	—	—	4,183	226.5	14.34	.85	70,022	276.8	2.92	—	26	74
Putnam (FL).....	—	—	—	—	—	—	—	—	21,754	276.6	2.91	—	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Florida Power Corp⁵	5,593	173.0	43.60	0.83	10,768	189.8	12.35	1.70	1,174 ²	341.5	3.52	66	33	1
Crystal River (FL).....	3,534	173.5	43.87	.92	98	342.4	20.09	.45	—	—	—	99	1	—
Bartow (FL).....	—	—	—	—	2,017	177.1	11.53	2.15	238	663.8	6.96	—	98	2
Suwannee (FL).....	—	—	—	—	517	239.7	15.31	2.06	935	257.6	2.65	—	77	23
Anclote (FL).....	—	—	—	—	13	328.2	19.25	.46	—	—	—	—	100	—
IMT Transfer (LA).....	2,059	172.2	43.13	.69	—	—	—	—	—	—	—	100	—	—
Storage Facility # 1.....	—	—	—	—	8,124	188.0	12.26	1.59	—	—	—	—	100	—
Fort Pierre City of	—	—	—	—	—	—	—	—	1,162	217.7	2.29	—	—	100
H D King (FL).....	—	—	—	—	—	—	—	—	1,162	217.7	2.29	—	—	100
Fremont City of	236	92.3	15.91	.28	—	—	—	—	123	208.2	2.08	97	—	3
Wright (NE).....	236	92.3	15.91	.28	—	—	—	—	123	208.2	2.08	97	—	3
Gainesville Regional Utilities	639	165.8	43.43	.66	93	274.9	17.43	1.40	3,448	265.0	2.79	80	3	17
Deerhaven (FL).....	639	165.8	43.43	.66	64	285.1	18.07	1.35	2,321	264.3	2.78	85	2	12
Jr Kelly (FL).....	—	—	—	—	29	252.3	16.04	1.52	1,127	266.6	2.82	—	13	87
Garland City of	—	—	—	—	—	—	—	—	10,881	206.2	2.09	—	—	100
Newman (TX).....	—	—	—	—	—	—	—	—	1,139	211.4	2.16	—	—	100
Olinger (TX).....	—	—	—	—	—	—	—	—	9,742	205.6	2.09	—	—	100
Georgia Power Co	30,903	154.8	36.40	.84	733	327.5	19.05	.50	6,729	332.2	3.42	98	1	1
Arkwright (GA).....	130	161.7	41.21	1.87	11	317.4	18.46	.50	2,706	335.2	3.47	54	1	45
Atkinson-McDonough (GA).....	1,368	136.7	34.96	1.02	75	278.4	16.20	.50	4,023	330.2	3.39	88	1	10
Bowen (GA).....	7,620	141.5	34.85	.91	49	333.2	19.38	.50	—	—	—	100	*	—
Hammond (GA).....	1,300	151.1	38.49	.90	18	333.5	19.40	.50	—	—	—	100	*	—
Harlee Branch (GA).....	3,263	157.3	38.94	1.28	11	325.1	18.91	.50	—	—	—	100	*	—
Mcmanus (GA).....	—	—	—	—	326	343.1	19.96	.50	—	—	—	—	100	—
Mitchell (GA).....	216	171.4	43.80	1.31	104	313.5	18.24	.50	—	—	—	90	10	—
Yates (GA).....	2,201	153.2	39.36	1.03	18	330.3	19.22	.50	—	—	—	100	*	—
Wansley (GA).....	4,116	147.0	36.29	1.08	87	330.2	19.20	.50	—	—	—	100	*	—
Scherer (GA).....	10,688	172.1	35.90	.49	33	313.1	18.21	.50	—	—	—	100	*	—
Glendale City of	—	—	—	—	—	—	—	—	2,899	270.8	2.76	—	—	100
Glendale (CA).....	—	—	—	—	—	—	—	—	2,899	270.8	2.76	—	—	100
Grand Haven City of	178	139.4	32.47	2.38	—	—	—	—	20	453.8	4.54	100	—	*
J B Simms (MI).....	178	139.4	32.47	2.38	—	—	—	—	20	453.8	4.54	100	—	*
Grand Island City of	406	67.6	11.80	.45	—	—	—	—	490	243.9	2.44	94	—	6
Platte (NE).....	406	67.6	11.80	.45	—	—	—	—	—	—	—	100	—	—
Burdick (NE).....	—	—	—	—	—	—	—	—	490	243.9	2.44	—	—	100
Grand River Dam Authority	3,895	87.4	14.89	.41	1	244.7	14.13	.40	376	235.6	2.36	99	*	1
GRDA No 1 (OK).....	3,895	87.4	14.89	.41	1	244.7	14.13	.40	376	235.6	2.36	99	*	1
Greenville City of	—	—	—	—	—	—	—	—	739	195.8	2.06	—	—	100
Power Lane (TX).....	—	—	—	—	—	—	—	—	739	195.8	2.06	—	—	100
Gulf Power Co	3,616	153.1	37.32	1.47	47	326.6	19.00	.45	2,805	224.0	2.27	97	*	3
Crist (FL).....	2,472	156.9	38.30	1.02	7	328.5	19.11	.45	2,805	224.0	2.27	95	*	4
Scholtz (FL).....	138	160.7	41.25	1.33	*	330.1	19.20	.45	—	—	—	100	*	—
Smith (FL).....	1,007	142.6	34.37	2.59	40	326.2	18.98	.45	—	—	—	99	1	—
Gulf States Utilities Co	2,141	137.8	23.96	.44	355	191.5	12.05	.25	191,327	225.7	2.35	16	1	83
Nelson (LA).....	2,141	137.8	23.96	.44	16	322.6	18.91	.34	24,803	212.6	2.21	59	*	41
Willow Glen (LA).....	—	—	—	—	339	185.7	11.72	.25	46,283	225.8	2.35	—	4	96
Lewis Creek (TX).....	—	—	—	—	—	—	—	—	24,666	214.7	2.29	—	—	100
Sabine (TX).....	—	—	—	—	—	—	—	—	91,650	232.0	2.41	—	—	100
Spindletop Storage (TX).....	—	—	—	—	—	—	—	—	3,924	231.4	2.36	—	—	100
Hamilton City of	165	140.7	34.62	.73	—	—	—	—	304	277.6	2.85	93	—	7
Hamilton (OH).....	165	140.7	34.62	.73	—	—	—	—	304	277.6	2.85	93	—	7

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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Hastings City of	323	63.6	10.95	0.31	—	—	—	—	—	—	—	100	—	—
Hastings (NE)	323	63.6	10.95	.31	—	—	—	—	—	—	—	100	—	—
Hawaiian Electric Co Inc	—	—	—	—	6,916	261.5	16.39	0.45	—	—	—	—	100	—
Kahe (HI)	—	—	—	—	757	251.8	15.85	.44	—	—	—	—	100	—
Waiuu (HI)	—	—	—	—	117	263.2	16.53	.38	—	—	—	—	100	—
Storage Facility # 1	—	—	—	—	6,042	262.7	16.45	.45	—	—	—	—	100	—
Holland City of	176	171.2	44.12	.80	—	—	—	—	257	218.9	2.24	95	—	5
James De Young (MI)	176	171.2	44.12	.80	—	—	—	—	257	218.9	2.24	95	—	5
Holyoke Water Power Co	380	178.9	46.98	1.04	5	328.9	19.03	.27	—	—	—	100	*	—
Mount Tom (MA)	380	178.9	46.98	1.04	5	328.9	19.03	.27	—	—	—	100	*	—
Hoosier Energy R E C Inc	3,975	125.3	27.50	2.84	17	324.2	18.79	*	—	—	—	100	*	—
Frank E Ratts (IN)	739	133.7	29.66	1.27	3	333.3	19.32	.01	—	—	—	100	*	—
Merom (IN)	3,236	123.4	27.00	3.20	13	322.1	18.67	.00	—	—	—	100	*	—
Houston Lighting & Power Co	20,141	145.4	22.35	.65	—	—	—	—	233,231	213.3	2.19	56	—	44
Limestone (TX)	8,708	91.3	11.81	.98	—	—	—	—	876	208.8	2.14	99	—	1
Cedar Bayou (TX)	—	—	—	—	—	—	—	—	69,262	211.6	2.18	—	—	100
Deepwater (TX)	—	—	—	—	—	—	—	—	1,740	214.9	2.22	—	—	100
Green Bayou (TX)	—	—	—	—	—	—	—	—	9,309	216.3	2.23	—	—	100
Robinson (TX)	—	—	—	—	—	—	—	—	64,257	212.4	2.19	—	—	100
Bertron (TX)	—	—	—	—	—	—	—	—	14,850	214.8	2.22	—	—	100
Wharton (TX)	—	—	—	—	—	—	—	—	24,368	216.7	2.21	—	—	100
Parish (TX)	11,433	176.3	30.39	.39	—	—	—	—	27,151	211.6	2.18	88	—	12
Webster (TX)	—	—	—	—	—	—	—	—	8,899	214.0	2.22	—	—	100
Storage Facility # 2	—	—	—	—	—	—	—	—	12,519	220.5	2.21	—	—	100
IES Utilities Co	5,365	88.8	14.96	.36	66	331.9	19.52	*	2,293 ²	286.7	2.87	97	*	2
6th St (IA)	176	144.2	29.10	.44	—	—	—	—	1,220	279.2	2.79	74	—	26
Praire Creek (IA)	857	85.1	14.26	.34	1	355.0	20.75	.00	532	291.4	2.91	96	*	4
Sutherland (IA)	526	71.7	11.97	.33	58	326.0	19.17	.00	529	286.9	2.87	92	3	5
Burlington (IA)	669	84.2	14.25	.46	1	378.7	22.27	.00	11 ²	867.3	8.67	100	*	*
Ottumwa (IA)	3,136	89.9	15.02	.34	6	381.1	22.41	.03	—	—	—	100	*	—
Illinois Power Co	8,054	114.3	25.06	2.25	164	329.0	20.39	.72	1,809 ²	224.3	2.30	98	1	1
Baldwin (IL)	4,964	105.8	22.72	2.85	12	353.1	20.76	.30	—	—	—	100	*	—
Havana (IL)	916	136.7	31.80	.52	148	326.5	20.34	.76	18	354.0	3.54	96	4	*
Hennepin (IL)	735	114.3	24.77	2.83	—	—	—	—	112 ²	279.1	2.89	99	—	1
Vermilion (IL)	487	110.7	23.07	1.48	4	354.3	20.83	.30	211	236.9	2.44	98	*	2
Wood River (IL)	952	135.0	32.04	.70	—	—	—	—	1,469	216.7	2.22	94	—	6
Imperial Irrigation District	—	—	—	—	—	—	—	—	3,832	306.9	3.10	—	—	100
El Centro (CA)	—	—	—	—	—	—	—	—	3,832	306.9	3.10	—	—	100
Independence City of	104	117.9	25.48	3.35	7	463.6	26.75	.05	299	263.6	2.66	87	2	12
Blue Valley (MO)	104	117.9	25.48	3.35	7	463.6	26.75	.05	299	263.6	2.66	87	2	12
Indiana-Kentucky Electric Corp	4,486	118.8	23.99	.95	5	364.5	20.82	.30	—	—	—	100	*	—
Clifty Creek (IN)	4,486	118.8	23.99	.95	5	364.5	20.82	.30	—	—	—	100	*	—
Indiana Michigan Power Co	11,890	109.9	20.82	.44	75	332.1	19.11	.00	*	415.4	4.15	100	*	*
Tanners Creek (IN)	1,942	121.2	29.83	1.13	31	312.1	18.19	.00	—	—	—	100	*	—
Rockport (IN)	9,948	106.9	19.06	.30	44	346.3	19.75	.00	*	415.4	4.15	100	*	*
Indianapolis Power & Light Co	7,689	98.5	21.81	2.34	95	292.7	17.03	.06	—	—	—	100	*	—
Stout (IN)	1,552	111.1	24.60	1.17	75	287.5	16.75	.04	—	—	—	99	1	—
Pritchard (IN)	625	105.2	23.09	1.08	14	310.8	17.99	.04	—	—	—	99	1	—
Petersburg (IN)	5,512	94.3	20.89	2.82	6	316.2	18.28	.26	—	—	—	100	*	—
Interstate Power Co	2,021	138.4	26.96	.81	13	322.8	18.98	.02	1,270	229.7	2.30	97	*	3
Dubuque (IA)	232	105.5	23.08	2.77	1	319.2	18.77	.04	1	398.5	3.98	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		C o a l	P e t r o l e u m	G a s
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Interstate Power Co														
Lansing (IA).....	1,123	151.4	26.74	0.60	9	321.7	18.92	0.03	—	—	—	100	*	—
Kapp (IA).....	666	132.1	28.69	.48	—	—	—	—	35	354.6	3.55	100	—	*
Fox Lake (MN).....	—	—	—	—	3	327.1	19.23	.00	1,235	226.1	2.26	—	1	99
Jacksonville Electric Auth.....	3,287	158.0	38.81	.99	5,579	205.3	13.01	1.45	5,946	244.5	2.59	72	24	4
St Johns River (FL).....	3,287	158.0	38.81	.99	41	340.5	19.88	.36	—	—	—	100	*	—
Kennedy (FL).....	—	—	—	—	499	222.5	14.10	.76	335	242.9	2.58	—	90	10
Northside (FL).....	—	—	—	—	4,516	200.9	12.73	1.61	4,293	241.8	2.56	—	86	14
Southside (FL).....	—	—	—	—	523	216.8	13.80	.87	1,319	253.5	2.68	—	70	30
Jamestown City of.....	96	130.2	33.00	2.15	—	—	—	—	—	—	—	100	—	—
Samuel A Carlson (NY).....	96	130.2	33.00	2.15	—	—	—	—	—	—	—	100	—	—
Jersey Central Power&Light Co.....	—	—	—	—	—	—	—	—	695	290.2	3.01	—	—	100
Sayreville (NJ).....	—	—	—	—	—	—	—	—	695	290.2	3.01	—	—	100
Kansas City City of.....	1,662	93.5	16.63	.43	46	325.3	18.85	.50	558	247.0	2.48	97	1	2
Kaw (KS).....	—	—	—	—	—	—	—	—	51	193.1	1.94	—	—	100
Quindaro (KS).....	482	125.0	25.94	.58	40	325.9	18.89	.50	507	252.3	2.54	93	2	5
Nearman (KS).....	1,180	77.4	12.83	.37	6	320.9	18.60	.50	—	—	—	100	*	—
Kansas City Power & Light Co.....	10,751	72.9	12.67	.47	135	328.0	19.09	.12	452	238.0	2.38	99	*	*
La Cygne (KS).....	5,033	66.5	11.52	.61	96	324.9	18.93	.10	—	—	—	99	1	—
Hawthorne (MO).....	1,143	66.9	11.67	.33	—	—	—	—	452	238.0	2.38	98	—	2
Montrose (MO).....	1,786	88.4	15.39	.34	27	338.1	19.66	.13	—	—	—	99	1	—
Iatan (MO).....	2,789	77.0	13.43	.35	12	329.8	19.11	.20	—	—	—	100	*	—
Kansas Gas & Electric Co.....	—	—	—	—	82	153.7	10.16	1.08	14,009	214.3	2.16	—	4	96
Evans (KS).....	—	—	—	—	—	—	—	—	8,862	217.0	2.19	—	—	100
Gill (KS).....	—	—	—	—	82	153.7	10.16	1.08	5,147	209.7	2.11	—	9	91
Kansas Power & Light Co.....	9,830	112.4	19.52	.38	24	348.9	20.22	.36	3,295 ²	221.4	2.24	98	*	2
Hutchinson (KS).....	—	—	—	—	10	360.5	20.90	.50	2,692	212.5	2.15	—	2	98
Lawrence (KS).....	793	115.2	24.75	.43	—	—	—	—	140	340.1	3.37	99	—	1
Tecumseh (KS).....	471	114.0	24.23	.43	—	—	—	—	463	238.2	2.39	96	—	4
Jeffrey Energy Cnt (KS).....	8,566	111.9	18.78	.38	14	340.4	19.73	.25	—	—	—	100	*	—
Kentucky Power Co.....	2,936	108.4	26.52	1.18	18	343.5	20.08	.01	—	—	—	100	*	—
Big Sandy (KY).....	2,936	108.4	26.52	1.18	18	343.5	20.08	.01	—	—	—	100	*	—
Kentucky Utilities Co.....	7,338	112.0	27.00	1.48	58	417.1	24.53	.40	—	—	—	100	*	—
Brown (KY).....	1,515	112.2	27.05	1.32	7	443.2	26.06	.40	—	—	—	100	*	—
Ghent (KY).....	5,149	112.6	27.21	1.44	32	407.0	23.93	.40	—	—	—	100	*	—
Green River (KY).....	571	104.0	24.30	2.37	5	429.3	25.24	.40	—	—	—	100	*	—
Tyrone (KY).....	103	120.1	31.05	.78	14	421.9	24.80	.40	—	—	—	97	3	—
Lafayette City of.....	—	—	—	—	—	—	—	—	5,995	213.5	2.29	—	—	100
Bonin (LA).....	—	—	—	—	—	—	—	—	5,995	213.5	2.29	—	—	100
Lake Worth City of.....	—	—	—	—	18	389.2	22.95	.35	2,214	284.8	3.00	—	4	96
Tom G Smith (FL).....	—	—	—	—	18	389.2	22.95	.35	2,214	284.8	3.00	—	4	96
Lakeland City of.....	628	175.9	45.29	1.25	211	232.3	14.47	2.01	7,179	301.1	3.19	66	5	29
Larsen Mem (FL).....	—	—	—	—	77	231.0	14.46	1.99	3,373	304.6	3.23	—	12	88
Plant 3-Mcintosh (FL).....	628	175.9	45.29	1.25	134	233.1	14.48	2.02	3,807	298.0	3.15	78	4	18
Lansing City of.....	1,116	154.5	33.94	.63	10	360.9	20.67	.28	—	—	—	100	*	—
Eckert (MI).....	749	150.0	31.01	.52	8	362.4	20.76	.28	—	—	—	100	*	—
Erickson (MI).....	367	162.2	39.93	.86	2	355.9	20.36	.30	—	—	—	100	*	—
Long Island Lighting Co.....	—	—	—	—	7,456	188.5	12.05	.90	55,513	249.0	2.55	—	46	54
Barrett (NY).....	—	—	—	—	58	257.1	16.12	.29	14,808	261.7	2.73	—	2	98
Far Rockaway (NY).....	—	—	—	—	—	—	—	—	3,831	250.7	2.61	—	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Long Island Lighting Co														
Glenwood (NY).....	—	—	—	—	—	—	—	—	5,701	247.8	2.57	—	—	100
Northport (NY).....	—	—	—	—	5,471	188.4	12.05	0.92	24,162	243.6	2.47	—	59	41
Port Jefferson (NY).....	—	—	—	—	1,927	187.0	11.91	.87	7,011	240.0	2.43	—	63	37
Los Angeles City of	5,460	134.3	31.45	0.52	—	—	—	—	29,302	307.8	3.13	81	—	19
Harbor (CA).....	—	—	—	—	—	—	—	—	4,781	341.9	3.47	—	—	100
Haynes (CA).....	—	—	—	—	—	—	—	—	13,934	288.0	2.91	—	—	100
Scattergood (CA).....	—	—	—	—	—	—	—	—	10,587	318.2	3.27	—	—	100
Intermountain (UT).....	5,460	134.3	31.45	.52	—	—	—	—	—	—	—	100	—	—
Louisiana Power & Light Co	—	—	—	—	276	240.6	15.56	.97	128,961	237.7	2.48	—	1	99
Little Gypsy (LA).....	—	—	—	—	2	473.1	28.56	.30	33,117	236.7	2.47	—	*	100
Nine Mile (LA).....	—	—	—	—	11	473.1	28.65	.30	68,891	237.4	2.47	—	*	100
Sterlington (LA).....	—	—	—	—	*	402.5	23.46	.14	9,722	219.3	2.28	—	*	100
Waterford (LA).....	—	—	—	—	263	230.1	14.92	1.00	17,231	251.0	2.61	—	9	91
Louisville Gas & Electric Co	6,948	97.4	22.23	3.35	42	454.1	26.70	.22	775	330.1	3.38	99	*	*
Cane Run (KY).....	1,423	98.4	22.21	3.30	1	609.7	35.85	.25	484	340.7	3.49	98	*	2
Mill Creek (KY).....	3,941	100.2	22.94	3.24	34	457.1	26.88	.21	292	312.4	3.20	99	*	*
Trimble County (KY).....	1,584	89.4	20.48	3.64	7	411.5	24.19	.25	—	—	—	100	*	—
Lower Colorado River Authority	5,694	94.7	16.27	.34	—	—	—	—	37,692	205.6	2.09	72	—	28
Gideon (TX).....	—	—	—	—	—	—	—	—	22,388	202.9	2.06	—	—	100
T C Ferguson (TX).....	—	—	—	—	—	—	—	—	15,304	209.7	2.12	—	—	100
S Seymour-Fayette (TX).....	5,694	94.7	16.27	.34	—	—	—	—	—	—	—	100	—	—
Lubbock City of	—	—	—	—	—	—	—	—	5,405	214.7	2.17	—	—	100
Holly Ave (TX).....	—	—	—	—	—	—	—	—	4,998	208.2	2.11	—	—	100
Plant 2 (TX).....	—	—	—	—	—	—	—	—	406	295.9	2.97	—	—	100
Madison Gas & Electric Co	156	137.3	29.45	1.41	2	307.0	18.00	.04	2,043	243.8	2.46	62	*	38
Blount (WI).....	156	137.3	29.45	1.41	2	307.0	18.00	.04	2,043	243.8	2.46	62	*	38
Manitowoc Public Utilities	112	160.5	41.40	1.19	—	—	—	—	—	—	—	100	—	—
Manitowoc (WI).....	112	160.5	41.40	1.19	—	—	—	—	—	—	—	100	—	—
Marquette City of	179	121.2	23.60	.39	11	364.3	21.12	.03	—	—	—	98	2	—
Shiras (MI).....	179	121.2	23.60	.39	11	364.3	21.12	.03	—	—	—	98	2	—
Massachusetts Mun Wholes El Co	—	—	—	—	—	—	—	—	6,829	223.2	2.29	—	—	100
Stonybrook (MA).....	—	—	—	—	—	—	—	—	6,829	223.2	2.29	—	—	100
Medina Electric Coop Inc	—	—	—	—	—	—	—	—	440	244.3	2.79	—	—	100
Pearsall (TX).....	—	—	—	—	—	—	—	—	440	244.3	2.79	—	—	100
Metropolitan Edison Co	1,262	138.8	36.67	1.30	68	342.3	19.55	.30	—	—	—	99	1	—
Portland (PA).....	754	140.3	37.08	1.29	62	344.5	19.68	.30	—	—	—	98	2	—
Titus (PA).....	508	136.4	36.05	1.31	6	319.4	18.24	.30	—	—	—	100	*	—
Michigan South Central Pwr Agy	139	158.5	37.66	3.28	5	312.8	18.52	.30	—	—	—	99	1	—
Project 1 (MI).....	139	158.5	37.66	3.28	5	312.8	18.52	.30	—	—	—	99	1	—
MidAmerican Energy	13,017	76.2	12.95	.36	16	317.7	18.15	.00	685	376.0	3.82	100	*	*
Riverside (IA).....	485	81.8	14.06	.22	—	—	—	—	299	407.3	4.13	96	—	4
Council Bluffs (IA).....	3,545	68.4	11.47	.38	7	320.7	18.32	.00	40	366.5	3.60	100	*	*
George Neal 1-4 (IA).....	6,118	74.3	12.79	.37	9	315.3	18.01	.00	247	384.1	3.89	100	*	*
Louisa (IA).....	2,869	89.1	14.94	.33	—	—	—	—	100	268.1	2.77	100	—	*
Minnesota Power & Light Co	4,079	114.0	20.66	.54	25	352.0	20.27	.20	—	—	—	100	*	—
Laskin Energy Center (MN).....	324	115.0	21.60	.35	2	330.7	19.03	.20	—	—	—	100	*	—
Boswell Energy Center (MN).....	3,755	113.9	20.58	.56	23	354.1	20.39	.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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Minnkota Power Coop Inc	4,136	64.5	8.65	0.85	39	330.2	19.41	0.40	—	—	—	100	*	—
Young (ND)	4,136	64.5	8.65	.85	39	330.2	19.41	.40	—	—	—	100	*	—
Mississippi Power & Light Co	—	—	—	—	8,342	198.7	13.14	2.82	32,416	219.2	2.26	—	62	38
Wilson (MS)	—	—	—	—	4,227	196.6	13.01	2.66	20,718	219.5	2.27	—	57	43
Delta (MS)	—	—	—	—	28	201.2	13.18	3.00	4,832	220.4	2.27	—	4	96
Brown (MS)	—	—	—	—	4	369.6	21.85	.50	6,757	217.5	2.24	—	*	100
Gerald Andrus (MS)	—	—	—	—	4,082	200.8	13.26	2.98	110	230.7	2.38	—	100	*
Mississippi Power Co	4,934	143.7	29.39	.72	21	310.2	18.06	.21	13,127	230.6	2.44	88	*	12
Eaton (MS)	—	—	—	—	—	—	—	—	2,372	231.5	2.45	—	—	100
Sweatt (MS)	—	—	—	—	—	—	—	—	3,208	234.2	2.43	—	—	100
Watson (MS)	2,103	139.8	31.66	1.20	9	315.8	18.50	.00	7,546	228.8	2.44	86	*	14
Daniel (MS)	2,831	147.2	27.70	.37	12	305.7	17.71	.37	—	—	—	100	*	—
Monongahela Power Co	11,969	109.9	27.47	3.00	35	365.2	21.63	.30	348 ²	351.4	3.51	100	*	*
Albright (WV)	413	105.7	26.72	1.55	7	374.2	22.16	.30	—	—	—	100	*	—
Ft Martin (WV)	2,616	122.8	30.86	1.52	20	352.2	20.86	.30	—	—	—	100	*	—
Harrison (WV)	5,207	114.4	28.64	3.53	3	374.2	22.16	.30	198	491.5	4.91	100	*	*
Rivesville (WV)	145	120.3	29.41	.92	2	375.7	22.25	.30	—	—	—	100	*	—
Willow Island (WV)	424	111.4	29.32	1.38	—	—	—	—	22	217.8	2.18	100	—	*
Pleasants (WV)	3,164	91.5	22.49	3.85	3	422.0	24.99	.30	128	157.8	1.58	100	*	*
Montana-Dakota Utilities Co	3,025	87.8	12.15	1.00	5	378.0	21.68	.63	32 ²	230.9	2.64	100	*	*
Heskett (ND)	416	110.2	15.56	.81	—	—	—	—	1	369.3	3.88	100	—	*
Lewis and Clark (MT)	277	91.1	12.21	.47	—	—	—	—	32	228.8	2.62	99	—	1
Coyote (ND)	2,332	83.3	11.54	1.09	5	378.0	21.68	.63	—	—	—	100	*	—
Montana Power Co	10,243	66.9	11.34	.73	14	466.0	27.60	.00	168 ²	184.3	1.95	100	*	*
Corette (MT)	397	54.4	9.04	.23	—	—	—	—	168	184.3	1.95	97	—	3
Colstrip (MT)	9,846	67.4	11.43	.75	14	466.0	27.60	.00	—	—	—	100	*	—
Montaup Electric Co	308	179.5	45.58	.73	151	198.8	12.52	.94	—	—	—	89	11	—
Somerset (MA)	308	179.5	45.58	.73	151	198.8	12.52	.94	—	—	—	89	11	—
Morgan City City of	—	—	—	—	—	—	—	—	896	220.6	2.33	—	—	100
Morgan City (LA)	—	—	—	—	—	—	—	—	896	220.6	2.33	—	—	100
Muscatine City of	852	89.6	15.72	.96	—	—	—	—	6	302.8	3.09	100	—	*
Muscatine (IA)	852	89.6	15.72	.96	—	—	—	—	6	302.8	3.09	100	—	*
Nebraska Public Power District	6,477	49.2	8.50	.25	3	365.3	21.20	.04	631	262.0	2.62	99	*	1
Canaday (NE)	—	—	—	—	—	—	—	—	337	269.0	2.69	—	—	100
Sheldon (NE)	947	62.7	11.03	.22	—	—	—	—	17	475.0	4.75	100	—	*
Gerald Gentleman (NE)	5,530	46.8	8.06	.26	3	365.3	21.20	.04	277	240.9	2.41	100	*	*
Nevada Power Co	1,826	123.2	28.84	.44	23	371.1	21.68	.30	23,357	250.2	2.59	64	*	36
Clark (NV)	—	—	—	—	—	—	—	—	22,287	250.2	2.59	—	—	100
Gardner (NV)	1,826	123.2	28.84	.44	23	371.1	21.68	.30	—	—	—	100	*	—
Sunrise (NV)	—	—	—	—	—	—	—	—	1,070	249.2	2.59	—	—	100
New England Power Co	2,785	164.7	41.30	.67	3,119	198.8	12.63	1.44	16,306	325.0	3.34	66	19	16
Brayton (MA)	2,238	164.7	41.30	.67	876	211.6	13.46	1.01	720	247.6	2.55	90	9	1
Salem Harbor (MA)	547	164.7	41.31	.67	2,242	193.8	12.31	1.61	—	—	—	49	51	—
Manchester St (RI)	—	—	—	—	—	—	—	—	15,586	328.5	3.38	—	—	100
New Orleans Public Service Inc	—	—	—	—	588	226.2	14.86	1.50	30,238	219.9	2.29	—	11	89
Michoud (LA)	—	—	—	—	588	226.2	14.86	1.50	30,238	219.9	2.29	—	11	89
New York State Elec & Gas Corp	3,510	134.3	34.84	2.10	17	404.6	23.28	.14	—	—	—	100	*	—
Goudey (NY)	327	140.9	37.53	2.17	2	414.1	23.84	.12	—	—	—	100	*	—
Greenidge (NY)	356	139.6	36.70	1.50	2	384.2	22.11	.14	—	—	—	100	*	—
Hickling (NY)	210	124.7	25.92	.69	—	—	—	—	—	—	—	100	—	—
Jennison (NY)	66	162.1	42.40	1.56	—	—	—	—	—	—	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
New York State Elec & Gas Corp														
Milliken (NY).....	829	134.5	35.14	2.26	1	415.7	23.92	0.14	—	—	—	100	*	—
Kintigh (NY).....	1,722	131.6	34.59	2.32	11	406.0	23.36	.14	—	—	—	100	*	—
Niagara Mohawk Power Corp.....	3,233	137.2	36.01	1.82	2,888	234.3	14.83	1.09	11,472	237.3	2.42	74	16	10
Albany (NY).....	—	—	—	—	748	179.4	11.46	1.25	9,317	231.8	2.36	—	33	67
Huntley (NY).....	1,809	142.1	37.26	1.67	12	345.1	19.24	.43	—	—	—	100	*	—
Dunkirk (NY).....	1,425	131.0	34.43	2.01	13	339.2	19.02	.37	—	—	—	100	*	—
Oswego (NY).....	—	—	—	—	2,116	252.9	15.97	1.03	2,155	260.9	2.67	—	86	14
Northern Indiana Pub Serv Co.....	9,188	130.2	26.05	1.29	—	—	—	—	3,962	278.2	2.85	98	—	2
Bailly (IN).....	1,449	136.2	29.95	2.52	—	—	—	—	187	319.8	3.29	99	—	1
Mitchell (IN).....	1,138	140.5	25.97	.41	—	—	—	—	1,821	284.1	2.91	92	—	8
Michigan City (IN).....	1,531	136.9	26.08	.60	—	—	—	—	1,546	265.5	2.72	95	—	5
Rollin Schahfer (IN).....	5,070	124.3	24.95	1.35	—	—	—	—	409	281.1	2.89	100	—	*
Northern States Power Co.....	13,406	104.2	18.36	.41	14	358.0	20.78	.40	1,428	252.6	2.57	99	*	1
Black Dog (MN).....	966	98.7	17.39	.19	—	—	—	—	540	234.7	2.39	97	—	3
High Bridge (MN).....	930	93.9	16.66	.19	—	—	—	—	216	252.2	2.57	99	—	1
King (MN).....	1,291	103.6	18.33	.31	—	—	—	—	34	236.9	2.43	100	—	*
Riverside (MN).....	1,440	90.8	16.12	.19	—	—	—	—	30	263.1	2.68	100	—	*
Pathfinder (SD).....	—	—	—	—	—	—	—	—	5	176.7	1.77	—	—	100
Bay Front (WI).....	70	167.8	41.07	.82	—	—	—	—	603	269.9	2.73	87	—	13
Sherburne County (MN).....	8,709	107.5	18.84	.50	14	358.0	20.78	.40	—	—	—	100	*	—
Ohio Edison Co.....	6,892	114.5	27.81	1.46	19	295.1	17.11	.32	791	248.7	2.56	99	*	*
Edgewater (OH).....	—	—	—	—	—	—	—	—	791	248.7	2.56	—	—	100
Niles (OH).....	524	106.8	25.80	3.16	7	143.1	8.30	.37	—	—	—	100	*	—
Burger (OH).....	713	97.0	24.26	2.75	3	424.0	24.62	.26	—	—	—	100	*	—
Sammis (OH).....	5,655	117.5	28.44	1.14	10	360.2	20.86	.30	—	—	—	100	*	—
Ohio Power Co.....	14,258	168.3	39.40	2.69	171	340.5	19.81	.02	—	—	—	100	*	—
Muskingum (OH).....	2,957	221.2	52.16	2.91	49	332.6	19.32	.01	—	—	—	100	*	—
Kammer (WV).....	1,677	86.4	21.19	3.45	5	386.0	22.45	.05	—	—	—	100	*	—
Mitchell (WV).....	3,262	143.5	35.42	.79	33	359.9	20.99	.06	—	—	—	100	*	—
Gavin (OH).....	6,361	180.2	40.31	3.37	84	334.6	19.46	.00	—	—	—	100	*	—
Ohio Valley Electric Corp.....	2,841	110.9	28.73	2.09	7	371.3	21.20	.30	—	—	—	100	*	—
Kyger Creek (OH).....	2,841	110.9	28.73	2.09	7	371.3	21.20	.30	—	—	—	100	*	—
Oklahoma Gas & Electric Co.....	9,882	82.2	14.20	.29	7	296.1	17.70	.04	79,104	252.8	2.62	68	*	32
Horseshoe Lake (OK).....	—	—	—	—	—	—	—	—	12,350	231.9	2.40	—	—	100
Muskogee (OK).....	5,841	84.4	14.49	.27	—	—	—	—	2,962	231.0	2.40	97	—	3
Mustang (OK).....	—	—	—	—	—	—	—	—	7,515	232.3	2.41	—	—	100
Seminole (OK).....	—	—	—	—	—	—	—	—	56,277	261.2	2.71	—	—	100
Sooner (OK).....	4,041	79.2	13.77	.33	7	296.1	17.70	.04	—	—	—	100	*	—
Omaha Public Power District.....	4,498	69.6	11.81	.27	11	351.3	20.29	.16	737	230.9	2.24	99	*	1
North Omaha (NE).....	2,118	71.1	11.92	.30	—	—	—	—	737	230.9	2.24	98	—	2
Nebraska City (NE).....	2,380	68.2	11.71	.25	11	351.3	20.29	.16	—	—	—	100	*	—
Orange & Rockland Utils Inc.....	684	185.2	48.03	.64	1,659	203.4	12.77	.31	30,276	242.0	2.51	30	17	53
Bowline (NY).....	—	—	—	—	1,659	203.4	12.77	.31	25,525	243.0	2.53	—	28	72
Lovett (NY).....	684	185.2	48.03	.64	—	—	—	—	4,751	236.2	2.46	78	—	22
Orlando Utilities Comm.....	2,396	173.0	44.31	1.08	1,365	223.8	14.21	1.01	8,526	277.4	2.90	78	11	11
Stanton Energy (FL).....	2,396	173.0	44.31	1.08	158	321.2	19.60	.70	—	—	—	98	2	—
Indian River (FL).....	—	—	—	—	1,207	211.6	13.50	1.05	8,526	277.4	2.90	—	46	54
Orrville City of.....	190	98.0	22.79	3.58	—	—	—	—	—	—	—	100	—	—
Orrville (OH).....	190	98.0	22.79	3.58	—	—	—	—	—	—	—	100	—	—
Otter Tail Power Co.....	2,087	98.8	17.45	.65	3	358.9	21.11	.31	—	—	—	100	*	—
Hoot Lake (MN).....	388	123.7	22.98	.37	3	358.9	21.11	.31	—	—	—	100	*	—
Big Stone (SD).....	1,699	92.7	16.19	.72	—	—	—	—	—	—	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Owensboro City of	1,321	96.2	20.81	3.12	1	305.9	17.99	0.08	—	—	—	90	10	—
Smith (KY).....	1,321	96.2	20.81	3.12	1	305.9	17.99	.08	—	—	—	90	10	—
Pacific Gas & Electric Co	—	—	—	—	—	—	—	—	122,501	256.7	2.64	—	—	100
Contra Costa (CA).....	—	—	—	—	—	—	—	—	18,583	255.1	2.63	—	—	100
Humboldt Bay (CA).....	—	—	—	—	—	—	—	—	2,774	256.6	2.64	—	—	100
Hunters Point (CA).....	—	—	—	—	—	—	—	—	12,851	256.8	2.61	—	—	100
Morro Bay (CA).....	—	—	—	—	—	—	—	—	5,741	261.7	2.69	—	—	100
Moss Landing (CA).....	—	—	—	—	—	—	—	—	22,214	261.4	2.69	—	—	100
Pittsburg (CA).....	—	—	—	—	—	—	—	—	48,933	254.5	2.64	—	—	100
Potrero (CA).....	—	—	—	—	—	—	—	—	11,404	257.5	2.62	—	—	100
PacifiCorp	31,484	100.1	18.83	.55	92	424.3	24.95	.30	4,122 ²	213.6	2.23	99	*	1
Carbon (UT).....	592	62.7	15.09	.47	3	442.4	26.01	.30	—	—	—	100	*	—
Gadsby (UT).....	—	—	—	—	—	—	—	—	4,045	202.5	2.11	—	—	100
Centralia (WA).....	6,105	148.7	24.43	.59	14	407.5	23.96	.30	—	—	—	100	*	—
Johnston (WY).....	4,034	57.4	9.02	.47	15	426.3	25.07	.30	—	—	—	100	*	—
Naughton (WY).....	2,712	113.6	22.87	.80	—	—	—	—	77	2	796.0	8.31	100	—
Wyodak (WY).....	2,122	72.8	11.72	.63	5	436.4	25.66	.30	—	—	—	100	*	—
Emery-Hunter (UT).....	4,313	94.3	21.04	.43	18	416.0	24.46	.30	—	—	—	100	*	—
Jim Bridger (WY).....	8,798	104.4	19.64	.58	21	432.9	25.45	.30	—	—	—	100	*	—
Huntington (UT).....	2,808	75.4	17.08	.43	16	428.3	25.18	.30	—	—	—	100	*	—
Painesville City of	94	135.7	33.97	2.43	—	—	—	—	9	468.6	4.69	100	—	*
Painesville (OH).....	94	135.7	33.97	2.43	—	—	—	—	9	468.6	4.69	100	—	*
Pasadena City of	—	—	—	—	—	—	—	—	2,138	324.6	3.31	—	—	100
Broadway (CA).....	—	—	—	—	—	—	—	—	2,138	324.6	3.31	—	—	100
Pennsylvania Electric Co	19,091	118.1	28.59	2.04	338	291.5	16.99	.05	172	1,500.9	15.48	100	*	*
Conemaugh (PA).....	5,187	107.7	27.19	2.30	—	—	—	—	172	1,500.9	15.48	100	—	*
Homer City (PA).....	6,383	119.4	27.17	2.19	85	305.4	17.80	.05	—	—	—	100	*	—
Seward (PA).....	519	111.5	27.07	1.55	33	289.1	16.86	.05	—	—	—	98	2	—
Shawville (PA).....	1,681	113.8	27.92	1.78	84	292.9	17.07	.05	—	—	—	99	1	—
Warren (PA).....	169	122.2	30.08	1.74	135	282.4	16.46	.05	—	—	—	84	16	—
Keystone (PA).....	5,152	129.3	32.10	1.74	—	—	—	—	—	—	—	100	—	—
Pennsylvania Power & Light Co	8,275	143.5	35.80	1.70	3,830	210.7	13.30	.87	2,814	286.8	2.94	89	10	1
Brunner Island (PA).....	3,146	151.5	39.55	1.68	40	325.2	18.87	.16	—	—	—	100	*	—
Holtwood (PA).....	175	119.9	20.47	.74	—	—	—	—	—	—	—	100	—	—
Martins Creek (PA).....	503	134.1	35.33	1.79	—	—	—	—	2,814	286.8	2.94	82	—	18
Montour (PA).....	3,397	142.7	36.15	1.92	116	338.7	19.66	.09	—	—	—	99	1	—
Sunbury (PA).....	1,054	125.7	26.26	1.14	7	295.0	17.13	.12	—	—	—	100	*	—
Storage Facility # 1.....	—	—	—	—	3,667	205.6	13.03	.90	—	—	—	100	—	—
Pennsylvania Power Co	6,935	161.9	38.88	3.44	3	330.1	19.09	.17	—	—	—	100	*	—
New Castle (PA).....	747	118.5	28.27	1.66	2	356.9	20.64	.07	—	—	—	100	*	—
Bruce Mansfield (PA).....	6,187	167.1	40.16	3.65	1	287.1	16.61	.33	—	—	—	100	*	—
Philadelphia Electric Co	1,274	144.4	38.07	1.71	2,782	231.7	14.70	.46	1,521	229.5	2.38	64	33	3
Cromby (PA).....	296	143.1	37.68	1.72	631	236.0	15.06	.64	114	223.1	2.31	65	34	1
Delaware (PA).....	—	—	—	—	270	237.2	15.22	.36	—	—	—	—	—	100
Eddystone (PA).....	978	144.8	38.19	1.70	1,760	229.8	14.53	.42	1,407	230.0	2.38	67	29	4
Schuylkill (PA).....	—	—	—	—	121	222.8	14.07	.33	—	—	—	—	—	100
Plains Elec Gen&Trans Coop Inc	767	139.0	25.75	.83	—	—	—	—	209	357.2	3.00	99	—	1
Escalante (NM).....	767	139.0	25.75	.83	—	—	—	—	209	357.2	3.00	99	—	1
Platte River Power Authority	1,050	59.4	10.45	.26	—	—	—	—	—	—	—	100	—	—
Rawhide (CO).....	1,050	59.4	10.45	.26	—	—	—	—	—	—	—	100	—	—
Portland General Electric Co	2,014	108.9	18.92	.32	6	331.9	19.52	.05	28,915	154.1	1.56	54	*	45
Boardman (OR).....	2,014	108.9	18.92	.32	—	—	—	—	—	—	—	100	—	—
Coyote Springs (OR).....	—	—	—	—	6	331.9	19.52	.05	12,270	124.6	1.26	—	*	100
Beaver (OR).....	—	—	—	—	—	—	—	—	16,644	175.8	1.78	—	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		C o a l	P e t r o l e u m	G a s
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Potomac Edison Co	160	131.0	32.03	0.92	2	314.2	18.61	0.30	—	—	—	100	*	—
Smith (MD)	160	131.0	32.03	.92	2	314.2	18.61	.30	—	—	—	100	*	—
Potomac Electric Power Co	6,576	151.7	39.53	1.35	4,067	220.0	13.81	.84	1,436	279.7	2.92	86	13	1
Benning (DC)	—	—	—	—	446	252.9	15.20	.99	—	—	—	100	—	—
Chalk (MD)	1,497	165.7	43.44	1.38	3,529	214.6	13.57	.84	1,436	279.7	2.92	62	35	2
Dickerson (MD)	1,358	136.7	35.58	1.44	6	294.5	17.15	.20	—	—	—	100	*	—
Morgantown (MD)	2,772	150.4	39.23	1.48	62	272.6	15.89	.30	—	—	—	100	*	—
Potomac River (VA)	949	155.1	39.89	.80	24	295.0	17.21	.20	—	—	—	99	1	—
Power Authority of State of NY	—	—	—	—	1,969	219.1	13.75	.28	12,418	401.1	4.10	—	49	51
Poletti (NY)	—	—	—	—	1,969	219.1	13.75	.28	4,184	255.4	2.66	—	74	26
Richard Flynn (NY)	—	—	—	—	—	—	—	—	8,234	477.2	4.84	—	—	100
Public Service Co of Colorado	10,561	92.7	17.91	.38	—	—	—	—	2,668	287.7	2.85	99	—	1
Arapahoe (CO)	716	82.9	14.47	.27	—	—	—	—	1,044	281.8	2.79	92	—	8
Cameo (CO)	271	96.9	20.98	.55	—	—	—	—	34	257.2	2.56	99	—	1
Cherokee (CO)	2,251	94.5	21.54	.47	—	—	—	—	400	315.3	3.12	99	—	1
Comanche (CO)	2,934	90.5	15.50	.27	—	—	—	—	86	268.0	2.66	100	—	*
Valmont (CO)	599	109.7	24.77	.47	—	—	—	—	163	286.6	2.82	99	—	1
Zuni (CO)	—	—	—	—	—	—	—	—	805	290.3	2.87	—	—	100
Hayden (CO)	1,622	96.4	20.40	.42	—	—	—	—	—	—	—	100	—	—
Pawnee (CO)	2,168	86.0	14.40	.37	—	—	—	—	137	258.4	2.68	100	—	*
PSI Energy Inc	16,331	109.9	24.44	1.84	308	323.7	18.62	.30	—	—	—	100	*	—
Cayuga (IN)	2,657	117.8	25.68	1.55	12	339.6	19.54	.30	—	—	—	100	*	—
Edwardsport (IN)	244	97.8	21.79	1.86	23	335.5	19.30	.30	—	—	—	98	2	—
Noblesville (IN)	193	113.7	25.42	2.32	2	317.9	18.29	.30	—	—	—	100	*	—
Gallagher (IN)	1,206	106.6	27.95	2.10	35	336.8	19.38	.30	—	—	—	99	1	—
Wabash River (IN)	2,556	105.7	22.87	1.77	186	318.5	18.33	.30	—	—	—	98	2	—
Gibson Station (IN)	9,474	109.6	24.12	1.89	49	324.2	18.65	.30	—	—	—	100	*	—
Public Service Co of NH	1,408	161.2	42.35	1.40	2,427	187.2	11.94	1.55	—	—	—	71	29	—
Merrimack (NH)	1,028	165.0	43.57	1.67	1	329.3	19.06	.27	—	—	—	100	*	—
Schiller (NH)	381	150.8	39.05	.68	—	—	—	—	—	—	—	100	—	—
Newington Station (NH)	—	—	—	—	2,425	187.1	11.94	1.55	—	—	—	100	—	—
Public Service Co of NM	6,780	164.4	30.48	.84	53	439.3	25.09	.93	1,292	324.2	3.32	99	*	1
Reeves (NM)	—	—	—	—	—	—	—	—	1,292	324.2	3.32	—	—	100
San Juan (NM)	6,780	164.4	30.48	.84	53	439.3	25.09	.93	—	—	—	100	*	—
Public Service Co of Oklahoma	4,266	110.5	19.45	.20	—	—	—	—	77,826	2	235.8	2.41	49	—
Northeastern (OK)	4,266	110.5	19.45	.20	—	—	—	—	19,665	2	233.2	2.38	79	—
Southwestern (OK)	—	—	—	—	—	—	—	—	12,316	2	235.0	2.41	—	100
Tulsa (OK)	—	—	—	—	—	—	—	—	5,131	230.6	2.36	—	—	100
Riverside (OK)	—	—	—	—	—	—	—	—	27,122	2	232.1	2.37	—	100
Comanche (CS) (OK)	—	—	—	—	—	—	—	—	13,592	2	249.7	2.58	—	100
Public Service Electric & Gas Co	1,611	148.0	39.22	.77	392	316.1	19.41	.24	15,827	260.5	2.72	69	4	27
Bergen (NJ)	—	—	—	—	5	557.0	31.35	.01	7,092	259.2	2.71	—	*	100
Burlington (NJ)	—	—	—	—	76	487.3	27.30	.01	2,020	259.2	2.72	—	17	83
Hudson (NJ)	639	143.0	35.84	.85	—	—	—	—	1,337	258.3	2.67	92	—	8
Kearny (NJ)	—	—	—	—	137	277.8	17.43	.30	—	—	—	—	—	100
Linden (NJ)	—	—	—	—	118	276.0	17.33	.29	—	—	—	—	—	100
Mercer (NJ)	971	151.0	41.44	.72	—	—	—	—	2,033	259.1	2.72	93	—	7
Sewaren (NJ)	—	—	—	—	57	268.8	16.91	.30	3,345	266.0	2.77	—	9	91
Richmond City of	279	132.3	30.77	2.47	—	—	—	—	—	—	—	100	—	—
Whitewater (IN)	279	132.3	30.77	2.47	—	—	—	—	—	—	—	100	—	—
Rochester Public Utilities	112	154.3	34.80	1.31	—	—	—	—	121	2	265.5	2.71	95	—
Silver Lake (MN)	112	154.3	34.80	1.31	—	—	—	—	121	2	265.5	2.71	95	—
Rochester Gas & Electric Corp	782	144.5	38.37	2.21	—	—	—	—	—	—	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Rochester Gas & Electric Corp														
Beebee Station 3 (NY).....	24	154.7	39.03	1.87	—	—	—	—	—	—	—	100	—	—
Russell Station 7 (NY).....	759	144.2	38.35	2.22	—	—	—	—	—	—	—	100	—	—
Ruston City of	—	—	—	—	—	—	—	—	1,943	217.6	2.25	—	—	100
Steam Plant (LA).....	—	—	—	—	—	—	—	—	1,943	217.6	2.25	—	—	100
Sacramento Municipal Utility	—	—	—	—	—	—	—	—	19,560	220.7	2.21	—	—	100
Central Valley (CA).....	—	—	—	—	—	—	—	—	3,700	220.3	2.21	—	—	100
SCA Cogen Proj (CA).....	—	—	—	—	—	—	—	—	6,788	221.2	2.22	—	—	100
SPA Cogen Proj (CA).....	—	—	—	—	—	—	—	—	9,072	220.5	2.21	—	—	100
Salt River Proj Ag I & P Dist	10,206	131.4	28.10	.51	73	458.0	26.78	0.20	13,735 ²	231.9	2.35	94	*	6
Agua Fria (AZ).....	—	—	—	—	—	—	—	—	7,763 ²	230.2	2.32	—	—	100
Kyrene (AZ).....	—	—	—	—	—	—	—	—	665 ²	268.5	2.72	—	—	100
Navajo (AZ).....	7,680	116.8	25.65	.54	44	463.1	27.16	.19	—	—	—	100	*	—
Coronado (AZ).....	2,526	181.1	35.55	.43	28	449.8	26.17	.21	—	—	—	100	*	—
Santan (AZ).....	—	—	—	—	—	—	—	—	5,307	229.8	2.33	—	—	100
San Antonio City of	5,462	98.7	16.62	.34	—	—	—	—	54,254	224.4	2.28	64	—	36
Leon Creek (TX).....	—	—	—	—	—	—	—	—	878	225.3	2.29	—	—	100
Mission Rd (TX).....	—	—	—	—	—	—	—	—	485	223.7	2.28	—	—	100
Sommers (TX).....	—	—	—	—	—	—	—	—	28,600	225.2	2.29	—	—	100
Braunig (TX).....	—	—	—	—	—	—	—	—	21,043	223.6	2.27	—	—	100
Tuttle (TX).....	—	—	—	—	—	—	—	—	3,212	223.3	2.27	—	—	100
JT Deely/Spruce (TX).....	5,462	98.7	16.62	.34	—	—	—	—	36	223.4	2.28	100	—	*
San Diego Gas & Electric Co	—	—	—	—	—	—	—	—	56,153	275.3	2.78	—	—	100
Encina (CA).....	—	—	—	—	—	—	—	—	31,224	273.3	2.76	—	—	100
South Bay (CA).....	—	—	—	—	—	—	—	—	24,930	277.8	2.80	—	—	100
San Miguel Electric Coop Inc	3,523	69.4	7.24	1.78	22	326.1	18.92	.66	—	—	—	100	*	—
San Miguel (TX).....	3,523	69.4	7.24	1.78	22	326.1	18.92	.66	—	—	—	100	*	—
Savannah Electric & Power Co	844	142.6	33.01	.97	5	341.3	19.78	.50	3,952 ²	288.3	2.95	83	*	17
Kraft (GA).....	414	144.6	36.14	1.01	—	—	—	—	2,328	280.7	2.87	81	*	19
Riverside (GA).....	—	—	—	—	—	—	—	—	1,624 ²	299.1	3.06	—	—	100
McIntosh (GA).....	430	140.4	29.99	.92	5	341.3	19.78	.50	—	—	—	100	*	—
Seminole Electric Coop Inc	3,591	178.8	43.79	2.91	47	344.5	20.05	.28	—	—	—	100	*	—
Seminole (FL).....	3,591	178.8	43.79	2.91	47	344.5	20.05	.28	—	—	—	100	*	—
Sierra Pacific Power Co	1,706	147.7	33.86	.38	7	407.2	23.60	.20	28,081	212.7	2.20	57	*	43
Fort Churchill (NV).....	—	—	—	—	—	—	—	—	10,713	212.4	2.20	—	—	100
Tracy (NV).....	—	—	—	—	—	—	—	—	12,850	213.7	2.20	—	—	100
Pinon Pine (NV).....	—	—	—	—	—	—	—	—	4,518	210.4	2.17	—	—	100
North Valmy (NV).....	1,706	147.7	33.86	.38	7	407.2	23.60	.20	—	—	—	100	*	—
Sikeston City of	1,046	100.2	17.48	.35	8	319.0	18.89	1.72	—	—	—	100	*	—
Sikeston (MO).....	1,046	100.2	17.48	.35	8	319.0	18.89	1.72	—	—	—	100	*	—
South Carolina Electric&Gas Co	5,965	153.7	39.11	1.17	86	331.7	19.23	.20	435	353.4	3.62	99	*	*
Canadys (SC).....	759	153.1	39.16	1.36	17	348.2	20.18	.20	218	352.8	3.61	98	1	1
Mcmeekin (SC).....	629	150.1	39.27	1.41	2	360.6	20.90	.20	—	—	—	100	*	—
Urguhart (SC).....	436	152.6	39.77	1.29	2	363.1	21.05	.20	217	353.8	3.62	98	*	2
Wateree (SC).....	1,693	150.6	37.42	1.26	41	337.7	19.59	.20	—	—	—	99	1	—
Williams (SC).....	1,346	161.2	41.62	.77	19	296.3	17.17	.20	*	438.9	4.49	100	*	*
Cope (SC).....	1,101	152.2	38.22	1.20	4	337.5	19.56	.20	—	—	—	100	*	—
South Carolina Pub Serv Auth	6,131	135.6	35.13	1.24	—	—	—	—	—	—	—	100	—	—
Cross (SC).....	2,608	135.0	34.80	1.11	—	—	—	—	—	—	—	100	—	—
Grainger (SC).....	227	151.5	40.10	1.63	—	—	—	—	—	—	—	100	—	—
Jefferies (SC).....	640	132.1	35.13	1.62	—	—	—	—	—	—	—	100	—	—
Winyah (SC).....	2,656	135.7	35.04	1.24	—	—	—	—	—	—	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
South Mississippi El Pwr Assn	952	197.4	48.71	0.89	16	317.9	18.85	0.32	7,843	221.1	2.28	74	*	26
Moselle (MS)	—	—	—	—	—	—	—	—	7,843	221.1	2.28	—	—	100
R D Morrow (MS)	952	197.4	48.71	.89	16	317.9	18.85	.32	—	—	—	100	*	—
Southern California Edison Co	4,503	125.6	27.36	.51	103	274.7	16.71	.00	29,638	288.9	2.96	76	*	24
Alamitos (CA)	—	—	—	—	—	—	—	—	10,031	294.5	2.96	—	—	100
Cool Water (CA)	—	—	—	—	—	—	—	—	2,353	245.0	2.66	—	—	100
El Segundo (CA)	—	—	—	—	—	—	—	—	2,623	288.2	2.97	—	—	100
Etiwanda (CA)	—	—	—	—	—	—	—	—	1,520	290.2	2.92	—	—	100
Huntington Beach (CA)	—	—	—	—	—	—	—	—	2,565	307.1	3.14	—	—	100
Long Beach (CA)	—	—	—	—	—	—	—	—	239	293.0	2.96	—	—	100
Mandalay (CA)	—	—	—	—	—	—	—	—	1,591	259.3	2.76	—	—	100
Ormond Beach (CA)	—	—	—	—	—	—	—	—	1,014	299.2	3.07	—	—	100
Redondo (CA)	—	—	—	—	—	—	—	—	7,327	295.0	3.02	—	—	100
Mohave (NV)	4,503	125.6	27.36	.51	—	—	—	—	374	293.1	3.00	100	—	*
Storage Facility # 1	—	—	—	—	103	274.7	16.71	.00	—	—	—	—	—	100
Southern Illinois Power Coop	827	93.5	20.20	2.95	12	339.8	19.36	.00	—	—	—	100	*	—
Marion (IL)	827	93.5	20.20	2.95	12	339.8	19.36	.00	—	—	—	100	*	—
Southern Indiana Gas & Elec Co ..	3,254	93.8	21.41	3.56	—	—	—	—	295	310.6	3.20	100	*	—
Culley (IN)	1,395	92.3	21.16	3.61	—	—	—	—	33	309.0	3.19	100	—	*
A B Brown (IN)	1,444	94.5	21.70	3.80	—	—	—	—	218	276.9	2.85	99	—	1
Warrick (IN)	416	96.3	21.22	2.52	—	—	—	—	45	476.2	4.92	100	—	*
Southwestern Electric Power Co	12,736	142.1	22.48	.71	51	306.9	18.35	.06	38,855	220.5	2.26	83	*	16
Arsenal Hill (LA)	—	—	—	—	—	—	—	—	2,180	206.6	2.20	—	—	100
Lieberman (LA)	—	—	—	—	—	—	—	—	4,038	217.6	2.21	—	—	100
Knox Lee (TX)	—	—	—	—	16	258.2	15.99	.00	11,185	222.4	2.29	—	1	99
Lone Star (TX)	—	—	—	—	—	—	—	—	709	222.0	2.26	—	—	100
Wilkes (TX)	—	—	—	—	—	—	—	—	20,640	221.5	2.26	—	—	100
Flint Creek (AR)	2,506	138.1	23.46	.35	12	338.7	19.92	.07	—	—	—	100	*	—
Welsh Station (TX)	6,632	156.4	26.35	.40	23	326.0	19.17	.10	—	—	—	100	*	—
Pirkey (TX)	3,598	111.9	14.68	1.54	—	—	—	—	103	219.4	2.20	100	—	*
Southwestern Public Service Co ..	8,909	161.1	28.59	.35	—	—	—	—	79,274	218.2	2.19	67	—	33
Maddox (NM)	—	—	—	—	—	—	—	—	7,668	214.7	2.16	—	—	100
Cunningham (NM)	—	—	—	—	—	—	—	—	17,826	214.9	2.16	—	—	100
Jones (TX)	—	—	—	—	—	—	—	—	23,057	219.2	2.22	—	—	100
Moore (TX)	—	—	—	—	—	—	—	—	1,014	223.9	2.17	—	—	100
Nichols (TX)	—	—	—	—	—	—	—	—	16,440	220.4	2.18	—	—	100
Plant X (TX)	—	—	—	—	—	—	—	—	12,646	218.9	2.20	—	—	100
Harrington (TX)	4,592	124.3	22.49	.36	—	—	—	—	170	247.4	2.44	100	—	*
Tolk (TX)	4,317	201.9	35.07	.35	—	—	—	—	452	238.7	2.41	99	—	1
Springfield City of	1,053	116.6	24.31	3.03	—	—	—	—	—	—	—	100	—	—
Dallman (IL)	1,000	116.6	24.32	3.03	—	—	—	—	—	—	—	100	—	—
Lakeside (IL)	53	116.1	24.22	3.13	—	—	—	—	—	—	—	100	—	—
Springfield City of	1,615	112.2	20.44	.43	—	—	—	—	3,264	212.3	2.15	90	—	10
James River (MO)	826	119.8	22.62	.49	—	—	—	—	2,359	210.1	2.13	87	—	13
Southwest (MO)	789	103.7	18.17	.36	—	—	—	—	905	217.9	2.21	94	—	6
St Joseph Light & Power Co	434	99.0	19.45	1.12	54	179.4	11.61	1.48	1,184	237.7	2.38	85	3	12
Lakeroad (MO)	434	99.0	19.45	1.12	54	179.4	11.61	1.48	1,184	237.7	2.38	85	3	12
Sunflower Electric Coop Inc	1,601	110.7	18.77	.30	—	—	—	—	96	244.7	2.39	100	—	*
Holcomb (KS)	1,601	110.7	18.77	.30	—	—	—	—	96	244.7	2.39	100	—	*
Tacoma Public Utilities	1	165.5	35.74	.73	1	360.7	20.91	.50	2	325.9	3.44	99	1	*
Steam No.2 (WA)	1	165.5	35.74	.73	1	360.7	20.91	.50	2	325.9	3.44	99	1	*
Tallahassee City of	—	—	—	—	—	—	—	—	17,109	289.7	3.04	—	—	100
Hopkins (FL)	—	—	—	—	—	—	—	—	13,859	289.5	3.04	—	—	100
Purdom (FL)	—	—	—	—	—	—	—	—	3,250	290.6	3.05	—	—	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Tampa Electric Co⁶	8,153	156.7	35.69	1.93	779	282.9	16.97	0.31	—	—	—	98	2	—
Big Bend (FL).....	—	—	—	—	65	335.0	19.45	.07	—	—	—	89	11	—
Gannon (FL).....	838	242.6	61.55	1.21	83	331.4	19.24	.09	—	—	—	98	2	—
Hookers Point (FL).....	—	—	—	—	359	222.3	13.84	.59	—	—	—	—	100	—
Polk Station (FL).....	—	—	—	—	272	341.1	19.80	.06	—	—	—	—	100	—
Davant Transfer (LA).....	7,315	145.6	32.73	2.01	—	—	—	—	—	—	—	100	—	—
Taunton City of	—	—	—	—	86	216.7	13.82	1.00	639	259.7	2.67	—	46	54
Clary (MA).....	—	—	—	—	86	216.7	13.82	1.00	639	259.7	2.67	—	46	54
Tennessee Valley Authority⁷	42,422	112.2	26.00	2.02	230	309.7	18.20	.49	—	—	—	100	*	—
Colbert (AL).....	1,567	112.7	27.12	1.69	15	268.8	15.79	.50	—	—	—	100	*	—
Widows Creek (AL).....	3,211	122.4	29.65	2.39	27	313.8	18.43	.50	—	—	—	100	*	—
Paradise (KY).....	6,347	96.1	20.47	4.23	7	315.7	18.55	.50	—	—	—	100	*	—
Shawnee (KY).....	3,599	125.1	28.93	.71	30	351.5	20.66	.50	—	—	—	100	*	—
Allen (TN).....	—	—	—	—	8	300.6	17.66	.50	—	—	—	—	100	—
Bull Run (TN).....	2,080	113.8	28.67	1.46	52	296.6	17.43	.50	—	—	—	99	1	—
Cumberland (TN).....	6,536	108.5	25.57	2.85	41	314.3	18.46	.47	—	—	—	100	*	—
Gallatin (TN).....	79	118.3	30.02	2.75	10	268.9	15.80	.50	—	—	—	97	3	—
Sevier (TN).....	2,068	128.2	32.58	1.54	3	330.3	19.41	.50	—	—	—	100	*	—
Johnsonville (TN).....	2,316	112.2	27.38	1.73	22	306.1	17.98	.50	—	—	—	100	*	—
Kingston (TN).....	4,316	122.6	30.64	1.38	15	322.8	18.96	.50	—	—	—	100	*	—
GRT Terminal (TN).....	6,773	104.6	22.93	1.37	—	—	—	—	—	—	—	100	—	—
Cora Transfer (TN).....	2,855	109.4	23.05	.47	—	—	—	—	—	—	—	100	—	—
Cahokia (AL).....	675	118.1	26.89	.46	—	—	—	—	—	—	—	100	—	—
Terrebonne Parish Consol Govt.	—	—	—	—	—	—	—	—	1,513	214.1	2.28	—	—	100
Houma (LA).....	—	—	—	—	—	—	—	—	1,513	214.1	2.28	—	—	100
Texas Municipal Power Agency	1,620	119.4	20.32	.31	—	—	—	—	135	232.8	2.37	100	—	*
Gibbons Creek (TX).....	1,620	119.4	20.32	.31	—	—	—	—	135	232.8	2.37	100	—	*
Texas-New Mexico Power Co	1,761	142.7	19.52	.87	—	—	—	—	192	227.2	2.31	99	—	1
TNP One (Tx).....	1,761	142.7	19.52	.87	—	—	—	—	192	227.2	2.31	99	—	1
Texas Utilities Electric Co⁸	33,280	102.0	13.44	.90	181	381.1	22.09	.02	413,551	239.5	2.45	51	*	49
Lake Hubbard (TX).....	—	—	—	—	46	475.4	27.55	.03	28,321	238.2	2.46	—	1	99
Mountain Creek (TX).....	—	—	—	—	—	—	—	—	29,272	237.8	2.42	—	—	100
North Lake (TX).....	—	—	—	—	—	—	—	—	20,711	237.7	2.43	—	—	100
Parkdale (TX).....	—	—	—	—	—	—	—	—	8,176	234.4	2.36	—	—	100
Eagle Mountain (TX).....	—	—	—	—	—	—	—	—	14,114	236.5	2.41	—	—	100
Graham (TX).....	—	—	—	—	—	—	—	—	24,875	239.7	2.44	—	—	100
Handley (TX).....	—	—	—	—	—	—	—	—	40,273	238.5	2.42	—	—	100
Morgan Creek (TX).....	—	—	—	—	—	—	—	—	32,678	239.4	2.43	—	—	100
North Main (TX).....	—	—	—	—	—	—	—	—	1,235	228.5	2.33	—	—	100
Permian Basin (TX).....	—	—	—	—	—	—	—	—	32,174	240.7	2.47	—	—	100
Big Brown (TX).....	5,022	113.2	15.11	.73	—	—	—	—	605	246.3	2.53	99	—	1
Collin (TX).....	—	—	—	—	—	—	—	—	3,494	236.4	2.39	—	—	100
Lake Creek (TX).....	—	—	—	—	—	—	—	—	10,852	238.8	2.46	—	—	100
River Crest (TX).....	—	—	—	—	—	—	—	—	1,588	233.1	2.47	—	—	100
Stryker (TX).....	—	—	—	—	3	529.0	30.66	.00	23,251	236.6	2.45	—	*	100
Tradinghouse (TX).....	—	—	—	—	—	—	—	—	62,555	242.2	2.47	—	—	100
Trinidad (TX).....	—	—	—	—	—	—	—	—	6,027	235.5	2.39	—	—	100
Valley (TX).....	—	—	—	—	41	411.8	23.87	.00	39,131	240.1	2.44	—	1	99
Martin Lake (TX).....	13,424	83.2	11.09	1.26	47	312.6	18.12	.04	—	—	—	100	*	—
Monticello (TX).....	11,466	118.9	15.31	.48	44	317.0	18.38	.01	—	—	—	100	*	—
Sandow No 4 (TX).....	3,368	104.6	13.99	1.20	—	—	—	—	—	—	—	100	—	—
Decordova (TX).....	—	—	—	—	—	—	—	—	34,220	244.3	2.48	—	—	100
Toledo Edison Co	1,730	127.1	24.16	.40	8	325.4	18.92	.39	—	—	—	100	*	—
Bay Shore (OH).....	1,730	127.1	24.16	.40	8	325.4	18.92	.39	—	—	—	100	*	—
Tri State G & T Assn Inc	4,861	108.6	22.13	.42	—	—	—	—	127	236.1	2.56	100	*	*
Nucla (CO).....	317	103.1	22.50	.85	—	—	—	—	—	—	—	99	1	—
Craig (CO).....	4,545	109.0	22.10	.39	—	—	—	—	127	236.1	2.56	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		Coal	Petroleum	Gas
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Tucson Electric Power Co	3,408	141.6	26.72	0.77	10	379.4	22.46	0.05	4,018	259.8	2.64	94	*	6
Irvington (AZ).....	209	195.7	43.76	.47	—	—	—	—	4,018	259.8	2.64	53	—	47
Springerville (AZ).....	3,199	137.4	25.61	.79	10	379.4	22.46	.05	—	—	—	100	*	—
Union Electric Co	17,617	95.5	17.08	.41	85	325.0	18.75	.29	2,370	227.1	2.32	99	*	1
Venice No.2 (IL).....	—	—	—	—	38	349.3	20.20	.29	1,584	228.2	2.34	—	12	88
Labadie (MO).....	8,270	92.5	16.38	.35	26	301.0	17.32	.29	—	—	—	100	*	—
Meramec (MO).....	1,467	119.4	24.34	.63	7	316.9	18.23	.25	786	224.8	2.30	97	—	3
Sioux (MO).....	3,057	98.8	18.26	.61	14	307.4	17.69	.29	—	—	—	100	*	—
Rush Island (MO).....	4,823	90.0	15.34	.31	—	—	—	—	—	—	—	100	*	—
United Illuminating Co	657	181.1	47.59	.53	4,284	219.0	13.96	.95	57	216.4	2.23	39	61	*
Bridgeport Harbor (CT).....	657	181.1	47.59	.53	1,098	220.7	14.06	.96	—	—	—	71	29	—
New Haven Hbr (CT).....	—	—	—	—	3,186	218.4	13.92	.95	57	216.4	2.23	—	100	*
United Power Assn	917	71.7	9.64	.74	3	370.4	21.31	.40	—	—	—	100	*	—
Stanton (ND).....	917	71.7	9.64	.74	3	370.4	21.31	.40	—	—	—	100	*	—
UtiliCorp United Inc	1,606	90.1	17.33	.38	—	—	—	—	—	—	—	100	—	—
Sibley (MO).....	1,606	90.1	17.33	.38	—	—	—	—	—	—	—	100	—	—
Vero Beach City of	—	—	—	—	6	323.3	.82	.60	1,962	220.9	2.33	—	*	100
Vero Beach (FL).....	—	—	—	—	6	323.3	.82	.60	1,962	220.9	2.33	—	*	100
Vineland City of	26	192.2	49.48	.78	77	242.6	15.01	.59	—	—	—	58	42	—
H M Down (NJ).....	26	192.2	49.48	.78	77	242.6	15.01	.59	—	—	—	58	42	—
Virginia Electric & Power Co	14,082	129.2	32.18	1.26	4,530	203.8	12.86	1.11	14,859	295.4	3.10	89	7	4
Bremo Bluff (VA).....	551	140.3	33.99	.83	5	390.8	22.98	.20	—	—	—	100	*	—
Chesterfield (VA).....	2,974	139.8	35.60	1.06	119	327.6	19.26	.20	13,946	300.6	3.15	83	1	16
Chesapeake Energy (VA).....	1,633	142.8	36.66	.97	38	298.7	17.56	.20	—	—	—	99	1	—
Possum Point (VA).....	899	142.3	34.57	.86	1,042	212.7	13.48	.69	—	—	—	77	23	—
Yorktown (VA).....	731	147.3	37.45	1.44	3	384.8	22.63	.20	913	217.3	2.29	95	*	5
Mount Storm (WV).....	4,920	113.1	27.51	1.66	45	377.8	22.21	.20	—	—	—	100	*	—
Clover (VA).....	2,375	125.9	31.56	1.07	11	445.1	26.17	.10	—	—	—	100	*	—
Storage Facility #1.....	—	—	—	—	3,268	192.4	12.18	1.30	—	—	—	100	—	—
West Penn Power Co	5,021	132.6	33.87	2.30	103	301.5	17.86	.30	52	401.5	4.01	99	*	*
Armstrong (PA).....	965	107.8	27.09	1.90	4	337.4	19.98	.30	—	—	—	100	*	—
Hatfield (PA).....	3,391	140.3	36.27	2.19	8	323.3	19.15	.30	—	—	—	100	*	—
Mitchell (PA).....	665	128.1	31.45	3.42	91	298.1	17.65	.30	52	401.5	4.01	96	3	*
WestPlains Energy	—	—	—	—	—	—	—	—	10,141	206.5	2.04	—	—	100
Cimarron River (KS).....	—	—	—	—	—	—	—	—	2,251	218.6	2.16	—	—	100
Large (KS).....	—	—	—	—	—	—	—	—	4,766	201.7	1.97	—	—	100
Mullergren (KS).....	—	—	—	—	—	—	—	—	3,124	205.1	2.07	—	—	100
West Texas Utilities Co	3,113	125.5	21.25	.39	—	—	—	—	36,685	221.3	2.25	59	—	41
Oklauion (TX).....	3,113	125.5	21.25	.39	—	—	—	—	—	—	—	100	—	—
Oak Creek (TX).....	—	—	—	—	—	—	—	—	3,612	229.2	2.38	—	—	100
Paint Creek (TX).....	—	—	—	—	—	—	—	—	5,174	231.2	2.41	—	—	100
Rio Pecos (TX).....	—	—	—	—	—	—	—	—	6,291	203.3	2.05	—	—	100
San Angelo (TX).....	—	—	—	—	—	—	—	—	8,718	214.5	2.12	—	—	100
Fort Phantom (TX).....	—	—	—	—	—	—	—	—	12,890	228.2	2.32	—	—	100
Western Farmers Elec Coop Inc	1,705	99.5	17.37	.36	—	—	—	—	20,670	216.5	2.23	58	—	42
Anadarko (OK).....	—	—	—	—	—	—	—	—	13,421	218.4	2.25	—	—	100
Mooreland (OK).....	—	—	—	—	—	—	—	—	7,249	212.9	2.19	—	—	100
Hugo (OK).....	1,705	99.5	17.37	.36	—	—	—	—	—	—	—	100	—	—
Western Massachusetts Elec Co	—	—	—	—	150	269.8	17.04	.61	1,671	263.3	2.70	—	36	64
West Springfield (MA).....	—	—	—	—	150	269.8	17.04	.61	1,671	263.3	2.70	—	36	64
Wisconsin Electric Power Co	10,415	109.0	21.64	.59	6	376.0	22.00	.25	928	283.8	2.89	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 31. Receipts, Average Delivered Cost, and Quality of Fossil Fuels by Electric Utility and Plant, 1998 (Continued)

Electric Utility Plant (State)	Coal				Petroleum ¹				Gas			% of Total Btu		
	Receipts (1,000 Short Tons)	Cost		(% Avg. Sulfur)	Receipts (1,000 bbls)	Cost		(% Avg. Sulfur)	Receipts (1,000 Mcf)	Cost		C o r a	P e t r o l e u m	G a s
		(cents per MM Btu)	(\$ per Short Ton)			(cents per MM Btu)	(\$ per bbl)			(cents per MM Btu)	(\$ per Mcf)			
Wisconsin Electric Power Co														
Presque Isle (MI).....	1,801	125.4	25.47	0.44	6	376.0	22.00	0.25	—	—	—	100	*	—
Oak Creek (WI).....	2,573	126.7	27.51	.74	—	—	—	—	628	275.2	2.80	99	—	1
Port Washington (WI).....	594	138.7	36.52	1.30	—	—	—	—	24	349.7	3.55	100	—	*
Valley (WI).....	706	150.5	39.49	1.60	—	—	—	—	54	302.7	3.08	100	—	*
Pleasant Prairie (WI).....	4,741	73.8	12.48	.33	—	—	—	—	222	296.4	3.03	100	—	*
Wisconsin Power & Light Co	8,367	107.1	18.56	.39	24	356.6	20.97	.03	326	327.1	3.34	100	*	*
Blackhawk (WI).....	—	—	—	—	—	—	—	—	326	327.1	3.34	—	—	100
Edgewater (WI).....	2,884	119.9	20.76	.35	7	331.6	19.50	.02	—	—	—	100	*	—
Nelson Dewey (WI).....	540	121.5	22.95	.37	1	366.9	21.57	.08	—	—	—	100	*	—
Rock River (WI).....	370	127.5	24.57	.40	2	404.2	23.77	.08	—	—	—	100	*	—
Columbia (WI).....	4,572	95.1	16.16	.41	14	363.2	21.35	.02	—	—	—	100	*	—
Wisconsin Public Service Corp.	3,565	103.2	18.26	.23	—	—	—	—	429	260.8	2.64	99	—	1
Pulliam (WI).....	1,479	97.2	17.23	.19	—	—	—	—	337	260.9	2.64	99	—	1
Weston (WI).....	2,086	107.5	18.99	.26	—	—	—	—	92	260.5	2.64	100	—	*
Wyandotte Municipal Serv Comm	111	141.6	35.41	1.13	—	—	—	—	—	—	—	100	—	—
Wyandotte (MI).....	111	141.6	35.41	1.13	—	—	—	—	—	—	—	100	—	—
Total	929,448	125.2	25.64	1.06	165,191 ²	213.6	13.55	1.14	2,922,284 ²	238.1	2.43	83	5	13

¹ Does not include petroleum coke receipts of 3,217,000 short tons at an average cost of 71.2 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.

³ Most coal destined for the Barry plant is reported by the Alabama Power Company as it is received at the Gorgas Transshipping Facility.

⁴ Most coal destined for the Crawford and Fisk plants is reported as delivered to the Will County plant. It is later transferred to Crawford and Fisk.

⁵ The cost reported under IMT Transfer (Louisiana) is the weighted average cost of coal delivered to this facility. Florida Power Corporation incurs additional costs for transporting coal from the transfer facility to the Crystal River power plant. These additional costs are not included in data shown in this report. When aggregated at the State level, data for this transfer facility are shown as though the coal were delivered to Florida.

⁶ The cost reported under Davant Transfer (Louisiana) is the weighted average cost of coal delivered to this facility located in Louisiana. The Tampa Electric Company incurs additional costs for transporting this coal from Davant to its power plants which are located in Florida. These costs are not included in data shown in this report. When aggregated at the State level, data for this transfer facility are shown as though the coal were delivered to Florida.

⁷ Coal reported as delivered to the Cahokia, Cora, and GRT transfer facilities is later transferred to individual electric plants located in Alabama, Kentucky, and Tennessee. The cost of transportation from these facilities to the electric plants is not included in the costs shown in this report. Coal delivered to Cahokia is later transferred primarily to the Colbert and Widows Creek plants in Alabama. Approximately 90 percent of the coal delivered to the Cora facility is transferred to the Allen plant. Most of the remaining coal is transferred to the Paradise plant. All coal delivered to the Cora facility is shown in this report as being delivered to Tennessee. Approximately 60 percent of the coal delivered to the GRT facility is later delivered to the Gallatin plant. Widdows Creek, Johnsonville, Paradise, and Cumberland each receive approximately 8 percent. Colbert and Shawnee each receive approximately 4 percent. All coal delivered to GRT is shown in this report as being delivered to Tennessee.

⁸ Data for Texas Utilities Electric Company include lignite delivered for the Aluminium Company of America (ALCOA) portion of Unit 4 of the Sandow Plant.

* = Number less than 0.5.

Notes: • Totals may not equal sum of components because of independent rounding. • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts. • Mcf = thousand cubic feet. • MM Btu = million Btu. • bbls = barrels. • Cost = average delivered cost.

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

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