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Cost and Quality of Fuels for Electric Plants 2007 and 2008

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U.S. Energy Information Administration
Office of Coal, Nuclear, Electric and Alternate Fuels
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Preface

Background

The *Cost and Quality of Fuels for Electric Plants 2007 and 2008* is prepared by the Electric Power Division; Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF); U. S. Energy Information Administration (EIA); U.S. Department of Energy. This publication provides information concerning the quality, quantity, and cost of fossil fuels used by electric power generating plants in the United States. These plants are comprised of regulated utility power plants and independent power producers, including combined heat and power producers in the commercial and industrial sectors. This publication continues the coverage of fuel cost and quality data presented in the publication *Cost and Quality of Fuels for Electric Plants 2006 and 2007*.

Coverage of Sources

The information contained in this publication is compiled from three separate forms: the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"; the EIA Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report", and the new EIA Form EIA-923, "Power Plant Operations Report". In 2008, EIA made significant changes to its data collection vehicles: the 423 forms were subsumed under the new form EIA-923. In this publication, 2007 data are provided by the FERC Form 423 and Form EIA-423, and 2008 data are provided by the EIA-923 form. The geographic coverage of all three surveys includes the contiguous United States, Alaska, Hawaii, and the District of Columbia.

For 2007 data, both 423 surveys collected data monthly from steam-electric and combined-cycle fossil-fueled plants with a total generator nameplate capacity of 50 or more megawatts. Data for gas turbines and internal combustion units were not collected on the FERC Form 423 survey, nor was their generating capacity used to determine the 50-megawatt threshold. However, on the Form EIA-423, data were collected for gas turbines and internal combustion units and the capacity of those generators was used to determine the 50-megawatt threshold. The Form EIA-923 collects receipts, cost, and quality data from plants above the 50-megawatt threshold. Additionally, commencing in 2008, the receipts, cost, and quality data are imputed for plants between 1 and 50 megawatts. **Therefore, there may be a notable increase in fuel receipts beginning with 2008 data.** Imputed receipts have unclassified purchase type and coal mine information, and therefore the Unclassified columns in these tables contain more data for 2008 than in 2007. The amount of imputed receipts data for 2008 is summarized in the table below.

Please note that the cost data from unregulated plants on the Forms EIA-423 and EIA-923 survey are considered sensitive. This may result in the appearance of a 'W' (for withheld) in a State where suppression rules apply. (See suppression rules methodology: "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" [45 Federal Register 59812, 1980].)

Display of Average Fuel Cost Information

For most of the 2007 data tables presented in the *Cost and Quality of Fuels for Electric Plants 2007 and 2008*, costs expressed as a "Total" are reflective of the average delivered costs of fuel as submitted via both the Form EIA-423 and the FERC Form 423. As such, State- and national-level aggregations are published if sufficient data are available to avoid disclosure of individual company plant-level costs. Due to the detailed nature of some of the information presented in the *Cost and Quality of Fuels for Electric Plants 2007 and 2008* tables (i.e., where fuel rank, mine type or purchase type are presented), the sensitivity of the cost information dictates that a significant amount of information be withheld. Therefore, in order to provide as much meaningful cost information as possible, the average costs presented for these levels of detail are reflective only of the costs submitted via the FERC Form 423. Notes have been provided for each table to assist with the interpretation of the information presented.

For 2008 data, the data presentation is similar to that described above: in order to provide as much meaningful cost information as possible, average costs presented in detailed tables (i.e., where fuel rank, mine type or purchase type are presented), are reflective only of the costs provided by regulated plants. State- and national-level aggregations reflect data provided by all plants, both regulated and unregulated.

Table P.1 Imputed Receipts Quantities, 2008

	Coal (mill. tons)	Natural Gas (bcf)	Pet. Liq. (thou. brls.)
Total Receipts	1069.7	7,879	61,139
All Imputed Receipts	14.3	401	8,773
Under 50 MW	13.9	392	8,412
Over 50 MW	0.4	10	362

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Table ES1.A. Receipts of Fossil Fuels by Type of Fuel, 2008

Type of Fuel	Total All Sectors	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Total Coal (thousand tons)[1]	**1,069,709**	**764,399**	**281,258**	**2,009**	**22,044**
Bituminous[2]	463,943	344,415	101,719	1,511	16,299
Subbituminous	522,228	384,329	131,900	498	5,501
Lignite	68,945	34,342	34,600	--	3
Total Petroleum (thousand barrels)	**96,341**	**53,104**	**27,597**	**701**	**14,939**
Petroleum Liquids	61,139	38,891	13,657	633	7,958
Residual	42,810	27,778	9,073	199	5,761
Distillate[3]	14,406	9,550	3,357	434	1,065
Other Fuel Oil[4]	3,922	1,562	1,228	*	1,132
Petroleum Coke[5]	35,202	14,213	13,940	68	6,981
Total Natural Gas (million cubic feet)[6]	**7,879,046**	**2,784,642**	**3,956,155**	**69,877**	**1,068,372**

[1] Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal.
[2] Includes anthracite.
[3] Distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils).
[4] Other Fuel Oil includes jet fuel, kerosene, and waste oil data.
[5] Petroleum coke (converted to liquid petroleum equivalent). As stated in the EIA Glossary (http://www.eia.doe.gov/cneaf/electricity/page/glossary.html), in order to convert petroleum coke to the liquid petroleum equivalent, the quantity conversion is 5 barrels (or 42 U.S. gallons per barrel) per short ton (2,000 pounds). Coke from petroleum has a heating value of 6.024 million Btu per barrel.
[6] Natural gas, including a small amount of supplemental gaseous fuels that cannot be identified separately. Natural gas values do not include blast furnace gas or other gas.
* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as "*.")
Notes: • Totals may not equal sum of components because of independent rounding. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Mcf = thousand cubic feet.
Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report"

Table ES1.B. Receipts of Fossil Fuels by Type of Fuel, 2007

Type of Fuel	Total All Sectors	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Total Coal (thousand tons)[1]	**1,054,664**	**767,377**	**273,216**	**531**	**13,540**
Bituminous[2]	439,154	343,042	87,139	531	8,442
Subbituminous	505,155	377,664	124,265	--	3,226
Lignite	71,930	33,950	37,980	--	--
Total Petroleum (thousand barrels)	**88,347**	**48,847**	**30,454**	**43**	**9,003**
Petroleum Liquids	60,068	34,026	20,486	43	5,514
Residual[3]	49,336	29,935	15,308	--	4,093
Distillate[4]	8,452	4,091	3,652	43	667
Other Fuel Oil[5]	2,280	--	1,526	--	754
Petroleum Coke[6]	28,279	14,821	9,969	--	3,490
Total Natural Gas (million cubic feet)[7]	**7,200,316**	**2,315,637**	**3,990,546**	**22,955**	**871,178**

[1] Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal.
[2] Includes anthracite.
[3] Residual fuel oil (includes No. 5 and No. 6 fuel oils and bunker C fuel oil data from both the Form EIA-423 and the FERC Form 423 as well as jet fuel and kerosene data from the FERC Form 423).
[4] Distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils).
[5] Other Fuel Oil includes jet fuel, kerosene and waste oil data from the Form EIA-423.
[6] Petroleum coke (converted to liquid petroleum equivalent). As stated in the EIA Glossary (http://www.eia.doe.gov/cneaf/electricity/page/glossary.html), in order to convert petroleum coke to the liquid petroleum equivalent, the quantity conversion is 5 barrels (or 42 U.S. gallons per barrel) per short ton (2,000 pounds). Coke from petroleum has a heating value of 6.024 million Btu per barrel.
[7] Natural gas, including a small amount of supplemental gaseous fuels that cannot be identified separately. Natural gas values do not include blast furnace gas or other gas.

Notes: • Totals may not equal sum of components because of independent rounding. • Mcf = thousand cubic feet.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table ES2.A. Average Delivered Cost of Fuels by Type of Fuel, 2008

Type of Fuel	Total All Sectors	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Total Coal (dollars per ton)[1]	**41.14**	**41.32**	**38.98**	**58.12**	**60.96**
Bituminous[2]	59.92	58.99	61.57	64.29	68.99
Subbituminous	28.11	27.63	29.02	39.39	38.40
Lignite	18.28	17.66	18.90	--	42.75
Total Petroleum (dollars per barrel)	**64.89**	**75.07**	**52.74**	**97.86**	**49.62**
Petroleum Liquids	95.38	98.09	98.03	107.10	76.69
Residual	86.46	89.39	88.15	73.25	70.08
Distillate[3]	124.27	124.56	124.23	122.59	122.50
Other Fuel Oil[4]	86.67	90.81	99.40	46.40	67.16
Petroleum Coke[5]	11.94	12.10	8.37	11.67	18.77
Total Natural Gas (dollar per Mcf)[6]	**9.26**	**9.39**	**9.17**	**9.24**	**9.22**
Total Coal (cents per MMBtu)[1]	**207**	**206**	**203**	**265**	**272**
Bituminous[2]	250	249	250	275	286
Subbituminous	162	158	168	226	219
Lignite	141	135	146	--	300
Total Petroleum (cents per MMBtu)	**1,087**	**1,238**	**903**	**1,645**	**842**
Petroleum Liquids	1,552	1,583	1,630	1,784	1,250
Residual	1,362	1,399	1,419	1,151	1,105
Distillate[3]	2,146	2,153	2,140	2,100	2,121
Other Fuel Oil[4]	1,656	1,744	1,950	818	1,239
Petroleum Coke[5]	211	212	147	214	334
Total Natural Gas (cents per MMBtu)[6]	**902**	**915**	**894**	**901**	**896**

[1] Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal.
[2] Includes anthracite.
[3] Distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils)
[4] Other Fuel Oil includes jet fuel, kerosene, and waste oil data .
[5] Petroleum coke (converted to liquid petroleum equivalent). As stated in the EIA Glossary (http://www.eia.doe.gov/cneaf/electricity/page/glossary.html), in order to convert petroleum coke to liquid petroleum equivalent the quantity conversion is 5 barrels (of 42 U.S. gallons per barrel) per short ton (2,000 pounds). Coke from petroleum has a heating value of 6.024 million Btu per barrel.
[6] Natural gas, including a small amount of supplemental gaseous fuels that cannot be identified separately. Natural gas values do not include blast furnace gas or other gas.
Notes: • Totals may not equal sum of components because of independent rounding. • Mcf = thousand cubic feet • Monetary values are expressed in nominal terms.
Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report"

Table ES2.B. Average Delivered Cost of Fuels by Type of Fuel, 2007

Type of Fuel	Total All Sectors	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
Total Coal (dollars per ton)[1]	**35.48**	**36.06**	**33.11**	**62.46**	**49.16**
Bituminous[2]	50.10	49.83	50.20	62.46	59.21
Subbituminous	25.27	25.05	25.77	--	31.06
Lignite	16.51	15.40	17.50	--	--
Total Petroleum (dollars per barrel)	**43.50**	**43.92**	**44.95**	**81.93**	**36.18**
Petroleum Liquids	59.93	58.73	64.01	81.93	52.06
Residual[3]	55.08	54.22	57.38	--	52.73
Distillate[4]	86.39	91.70	83.86	81.93	67.92
Other Fuel Oil[5]	66.95	--	83.03	--	34.38
Petroleum Coke[6]	8.60	9.91	5.79	--	11.08
Total Natural Gas (dollar per Mcf)[7]	**7.30**	**7.67**	**7.11**	**8.18**	**7.18**
Total Coal (cents per MMBtu)[1]	**177**	**178**	**171**	**267**	**220**
Bituminous[2]	208	208	203	267	242
Subbituminous	145	143	149	--	176
Lignite	128	120	136	--	--
Total Petroleum (cents per MMBtu)	**717**	**712**	**754**	**1,404**	**611**
Petroleum Liquids	959	924	1,049	1,404	853
Residual[3]	864	843	915	--	832
Distillate[4]	1,485	1,579	1,447	1,404	1,136
Other Fuel Oil[5]	1,313	--	1,601	--	699
Petroleum Coke[6]	151	173	102	--	196
Total Natural Gas (cents per MMBtu)[7]	**711**	**747**	**692**	**799**	**697**

[1] Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal.
[2] Includes anthracite.
[3] Residual fuel oil (includes No. 5 and No. 6 fuel oils and bunker C fuel oil for data from both the Form EIA-423 and the FERC Form 423 as well as jet fuel and kerosene data from the FERC Form 423).
[4] Distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils)
[5] Other Fuel Oil includes jet fuel, kerosene and waste oil data from the Form EIA-423.
[6] Petroleum coke (converted to liquid petroleum equivalent). As stated in the EIA Glossary (http://www.eia.doe.gov/cneaf/electricity/page/glossary.html), in order to convert petroleum coke to liquid petroleum equivalent the quantity conversion is 5 barrels (of 42 U.S. gallons per barrel) per short ton (2,000 pounds). Coke from petroleum has a heating value of 6.024 million Btu per barrel.
[7] Natural gas, including a small amount of supplemental gaseous fuels that cannot be identified separately. Natural gas values do not include blast furnace gas or other gas.

Notes: • Totals may not equal sum of components because of independent rounding. • Mcf = thousand cubic feet • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table ES3. Average Quality of Coal by State of Origin: Total (All Sectors), 2008 - 2007

State of Origin	Heat Value (Btu per pound)		Sulfur (percent by weight)		Sulfur (pounds per Million Btu)		Ash (percent by weight)	
	2008	2007	2008	2007	2008	2007	2008	2007
Alabama	11,938	12,008	1.59	1.43	1.33	1.19	13.02	12.57
Alaska	8,698	--	.33	--	.38	--	5.83	--
Arizona	10,841	10,894	.56	.55	.52	.50	10.05	9.74
Colorado	11,171	11,220	.50	.51	.45	.45	9.70	9.66
Illinois	11,423	11,411	2.69	2.47	2.36	2.17	8.89	8.60
Indiana	11,138	11,165	2.54	2.47	2.28	2.21	9.21	8.97
Kansas	11,417	11,118	3.48	3.84	3.05	3.45	12.96	15.38
Kentucky	12,138	12,183	1.67	1.64	1.38	1.34	10.53	10.56
Louisiana	7,125	6,855	.75	.73	1.05	1.07	11.56	13.02
Maryland	11,721	11,985	1.86	1.70	1.59	1.42	17.43	15.73
Mississippi	5,068	5,100	.48	.47	.95	.92	15.92	16.09
Missouri	10,946	10,831	3.93	3.57	3.59	3.29	15.86	14.07
Montana	8,843	8,973	.51	.48	.57	.54	7.68	6.71
New Mexico	9,279	9,309	.78	.75	.84	.81	19.70	20.12
North Dakota	6,543	6,504	.75	.76	1.15	1.17	9.88	10.12
Ohio	12,155	12,243	3.69	3.36	3.04	2.74	10.24	9.38
Oklahoma	10,202	10,572	2.05	2.62	2.01	2.48	26.28	24.44
Pennsylvania	11,549	11,980	2.07	1.96	1.79	1.64	16.29	13.61
Tennessee	12,557	12,786	1.22	1.22	.97	.95	9.44	8.50
Texas	6,514	6,463	.98	1.03	1.50	1.59	16.37	16.23
Utah	11,488	11,439	.57	.60	.50	.53	11.83	12.36
Virginia	12,603	12,592	1.01	1.03	.80	.82	11.17	11.01
West Virginia	12,240	12,262	1.48	1.38	1.21	1.12	11.77	11.73
Wyoming	8,646	8,648	.30	.31	.35	.36	5.18	5.20
Subtotal	**9,904**	**9,969**	**.98**	**.96**	**.99**	**.96**	**8.93**	**8.77**
Imported	11,282	11,475	.53	.55	.47	.47	7.00	6.37
Unclassified	10,466	11,022	1.44	2.17	1.37	1.97	14.55	18.48
Total	**9,947**	**10,028**	**.97**	**.96**	**.98**	**.96**	**8.95**	**8.84**

Notes: • Coal includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal • Totals may not equal sum of components because of independent rounding.
Sources: 2008 data source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" 2007 data sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" 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: Total (All Sectors), 2008 - 2007

Rank	Receipts (thousand 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 ton)
2008							
Total Coal[1]	**1,069,709**	**9,947**	**.97**	**.98**	**8.95**	**207**	**41.14**
Bituminous[2]	463,943	11,973	1.68	1.40	10.63	250	59.92
Subbituminous	522,228	8,700	.34	.39	5.83	162	28.11
Lignite	68,945	6,495	.86	1.32	13.81	141	18.28
2007							
Total Coal[1]	**1,054,664**	**10,028**	**.96**	**.96**	**8.84**	**177**	**35.48**
Bituminous[2]	439,154	12,045	1.61	1.34	10.32	208	50.10
Subbituminous	505,155	8,736	.34	.39	6.02	145	25.27
Lignite	71,930	6,430	.90	1.40	14.04	128	16.51

[1] Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal.
[2] Includes anthracite.

Notes: • Totals may not equal sum of components because of independent rounding. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Sources: 2008 data source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" 2007 data sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" 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 to Electric Plants by Census Division and State: Total (All Sectors), 2008 and 2007
(Thousand Tons)

Census Division and State	2008	2007
New England	**8,409**	**8,467**
Connecticut	2,033	2,008
Maine	243	267
Massachusetts	4,674	4,694
New Hampshire	1,459	1,498
Rhode Island	--	--
Vermont	--	--
Middle Atlantic	**71,032**	**66,674**
New Jersey	4,483	4,017
New York	9,505	9,999
Pennsylvania	57,044	52,657
East North Central	**244,955**	**237,109**
Illinois	60,517	58,477
Indiana	61,080	59,882
Michigan	38,251	37,014
Ohio	58,556	58,372
Wisconsin	26,551	23,364
West North Central	**156,070**	**152,029**
Iowa	27,801	22,592
Kansas	21,533	24,384
Minnesota	19,860	19,883
Missouri	44,793	45,843
Nebraska	14,663	12,780
North Dakota	25,163	24,931
South Dakota	2,257	1,616
South Atlantic	**183,337**	**190,849**
Delaware	2,363	2,407
District of Columbia	--	--
Florida	29,016	31,566
Georgia	39,683	41,679
Maryland	11,167	11,788
North Carolina	31,394	32,928
South Carolina	15,919	16,895
Virginia	15,511	14,746
West Virginia	38,284	38,839
East South Central	**116,508**	**117,361**
Alabama	36,613	37,887
Kentucky	41,399	40,063
Mississippi	9,730	9,964
Tennessee	28,765	29,447
West South Central	**157,287**	**156,519**
Arkansas	15,707	15,175
Louisiana	15,399	16,756
Oklahoma	23,213	22,063
Texas	102,968	102,524
Mountain	**120,272**	**116,319**
Arizona	23,379	21,583
Colorado	18,913	19,828
Idaho	198	--
Montana	12,321	11,479
Nevada	3,963	3,572
New Mexico	15,419	16,012
Utah	18,142	17,400
Wyoming	27,938	26,446
Pacific Contiguous	**10,236**	**8,633**
California	1,804	1,157
Oregon	2,655	2,291
Washington	5,777	5,184
Pacific Noncontiguous	**1,603**	**704**
Alaska	922	--
Hawaii	681	704
U.S. Total	**1,069,709**	**1,054,664**

Notes: • Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Totals may not equal sum of components because of independent rounding.

Sources: 2008 data source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" 2007 data sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" 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: Total (All Sectors), 2008 and 2007

Census Division and State	2008		2007		Percent Change 2007-2008 (cents per million Btu)	Percent Change 2007-2008 (dollars per ton)
	(cents per million Btu)	(dollars per ton)	(cents per million Btu)	(dollars per ton)		
New England	**312**	**71.74**	**285**	**66.18**	**9.52**	**8.39**
Connecticut	W	W	W	W	W	W
Maine	W	W	W	W	W	W
Massachusetts	294	67.74	278	64.45	5.81	5.10
New Hampshire	353	90.86	290	75.92	21.74	19.68
Rhode Island	--	--	--	--	--	--
Vermont	--	--	--	--	--	--
Middle Atlantic	**225**	**50.18**	**192**	**43.91**	**16.99**	**14.29**
New Jersey	333	80.36	289	68.69	15.22	16.99
New York	257	57.88	241	54.95	6.60	5.33
Pennsylvania	210	46.53	175	39.92	19.94	16.56
East North Central	**190**	**38.22**	**160**	**32.56**	**18.24**	**17.37**
Illinois	158	28.09	134	23.95	18.22	17.29
Indiana	193	40.50	W	W	W	W
Michigan	197	38.94	172	34.11	14.38	14.16
Ohio	205	46.92	171	39.39	19.65	19.12
Wisconsin	198	35.81	W	W	W	W
West North Central	**137**	**22.95**	**W**	**W**	**W**	**W**
Iowa	127	21.93	W	W	W	W
Kansas	141	24.15	123	21.12	14.87	14.35
Minnesota	169	30.10	W	W	W	W
Missouri	151	26.66	W	W	W	W
Nebraska	90	15.35	88	14.96	2.82	2.61
North Dakota	110	14.69	98	13.02	12.04	12.83
South Dakota	174	29.16	156	26.57	11.59	9.75
South Atlantic	**291**	**69.17**	**238**	**57.17**	**22.10**	**20.98**
Delaware	W	W	W	W	W	W
District of Columbia	--	--	--	--	--	--
Florida	297	70.83	256	61.92	16.19	14.39
Georgia	307	67.22	261	57.37	17.57	17.17
Maryland	366	90.47	212	53.11	72.29	70.34
North Carolina	326	79.77	274	67.92	18.69	17.45
South Carolina	W	W	W	W	W	W
Virginia	277	69.18	249	62.34	11.31	10.97
West Virginia	222	52.72	173	41.69	28.05	26.46
East South Central	**241**	**52.82**	**W**	**W**	**W**	**W**
Alabama	271	57.86	W	W	W	W
Kentucky	214	49.30	175	40.80	22.16	20.83
Mississippi	W	W	W	W	W	W
Tennessee	W	W	W	W	W	W
West South Central	**164**	**26.33**	**150**	**23.89**	**9.60**	**10.18**
Arkansas	W	W	160	27.95	W	W
Louisiana	W	W	W	W	W	W
Oklahoma	W	W	W	W	W	W
Texas	162	25.17	W	W	W	W
Mountain	**150**	**28.63**	**136**	**26.12**	**9.98**	**9.64**
Arizona	W	W	W	W	W	W
Colorado	W	W	126	24.59	W	W
Idaho	W	W	--	--	--	--
Montana	W	W	W	W	W	W
Nevada	W	W	188	41.97	W	W
New Mexico	199	36.59	179	32.87	11.61	11.32
Utah	W	W	W	W	W	W
Wyoming	W	W	W	W	W	W
Pacific Contiguous	**215**	**38.36**	**179**	**33.53**	**19.53**	**14.43**
California	W	W	W	W	W	W
Oregon	145	24.15	138	23.06	4.97	4.73
Washington	W	W	W	W	W	W
Pacific Noncontiguous	**277**	**52.74**	**W**	**W**	**W**	**W**
Alaska	W	W	--	--	--	--
Hawaii	W	W	W	W	W	W
U.S. Total	**207**	**41.14**	**177**	**35.48**	**16.90**	**15.95**

W = Withheld to avoid disclosure of individual company data.

Notes: • Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Virginia, Florida, Illinois, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Monetary values are expressed in nominal terms.

Sources: 2008 data source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" 2007 data sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 3.A. Receipts and Average Delivered Cost of Coal by Type of Purchase, Mine Type, Census Division and State: Total (All Sectors), 2008

Census Division and State	Type of Purchase								
	Contract			Spot			Unclassified/Other		
	Receipts (1,000 tons)	Cost		Receipts (1,000 tons)	Cost		Receipts (1,000 tons)	Cost	
		(cents per million Btu)	(dollars per ton)		(cents per million Btu)	(dollars per ton)		(cents per million Btu)	(dollars per ton)
New England	**5,481**	**364**	**94.29**	**2,845**	**325**	**82.44**	**83**	**--**	**--**
Connecticut	1,972	--	--	61	--	--	--	--	--
Maine	198	--	--	45	--	--	--	--	--
Massachusetts	2,274	--	--	2,316	--	--	83	--	--
New Hampshire	1,037	364	94.29	422	325	82.44	--	--	--
Rhode Island	--	--	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--	--	--
Middle Atlantic	**63,687**	**345**	**84.34**	**5,319**	**274**	**70.94**	**2,026**	**188**	**48.52**
New Jersey	4,228	413	105.26	254	--	--	--	--	--
New York	7,984	316	75.73	1,313	274	70.94	208	188	48.52
Pennsylvania	51,475	--	--	3,752	--	--	1,817	--	--
East North Central	**213,742**	**183**	**38.24**	**27,829**	**260**	**55.04**	**3,384**	**183**	**40.82**
Illinois	59,746	179	34.52	385	--	--	386	187	40.33
Indiana	52,310	179	37.54	8,037	285	62.47	732	188	42.46
Michigan	30,693	190	37.52	6,816	208	40.00	742	177	44.58
Ohio	47,052	181	43.30	11,137	282	64.84	366	188	45.66
Wisconsin	23,940	189	33.53	1,453	265	50.26	1,157	179	36.52
West North Central	**146,807**	**135**	**22.46**	**6,734**	**120**	**20.57**	**2,530**	**181**	**33.18**
Iowa	22,997	118	20.22	3,925	115	19.60	879	193	32.74
Kansas	21,230	142	24.19	303	126	21.59	--	--	--
Minnesota	18,549	165	29.41	253	157	28.12	1,058	179	32.27
Missouri	43,537	150	26.40	958	145	25.60	299	180	42.75
Nebraska	13,447	89	15.17	1,216	102	17.37	--	--	--
North Dakota	24,790	108	14.32	79	160	28.16	294	--	--
South Dakota	2,257	174	29.16	--	--	--	--	--	--
South Atlantic	**150,663**	**267**	**62.83**	**30,599**	**378**	**91.01**	**2,074**	**291**	**71.86**
Delaware	1,721	--	--	558	--	--	83	--	--
District of Columbia	--	--	--	--	--	--	--	--	--
Florida	24,682	277	65.94	4,178	355	84.92	156	--	--
Georgia	35,856	292	63.32	3,725	410	95.34	101	291	71.86
Maryland	9,478	--	--	1,689	--	--	--	--	--
North Carolina	25,563	295	72.06	5,590	462	112.93	241	--	--
South Carolina	11,988	245	60.97	3,920	409	101.10	NM	--	--
Virginia	11,289	256	63.33	2,792	287	72.29	1,431	--	--
West Virginia	30,085	203	48.91	8,146	327	77.11	52	--	--
East South Central	**105,319**	**231**	**50.85**	**10,248**	**333**	**77.80**	**940**	**277**	**64.24**
Alabama	34,644	260	55.04	1,465	476	113.15	504	--	--
Kentucky	34,782	195	45.20	6,614	325	74.86	NM	187	43.73
Mississippi	9,650	325	72.74	41	254	44.84	NM	287	66.68
Tennessee	26,244	213	46.35	2,129	241	58.74	393	--	--
West South Central	**142,760**	**171**	**28.53**	**14,331**	**206**	**34.40**	**196**	**--**	**--**
Arkansas	15,336	172	29.84	198	168	29.20	173	--	--
Louisiana	13,320	232	36.73	2,055	319	55.97	24	--	--
Oklahoma	23,187	132	22.81	26	170	28.05	--	--	--
Texas	90,917	183	29.66	12,051	204	33.88	--	--	--
Mountain	**113,821**	**151**	**29.30**	**4,510**	**183**	**36.92**	**1,940**	**165**	**31.09**
Arizona	22,111	170	33.47	1,268	236	44.10	--	--	--
Colorado	16,865	142	27.69	1,631	158	31.55	417	165	37.14
Idaho	--	--	--	--	--	--	198	--	--
Montana	12,072	134	17.43	--	--	--	249	--	--
Nevada	3,510	219	48.19	255	234	53.37	197	--	--
New Mexico	15,419	199	36.59	--	--	--	--	--	--
Utah	16,786	136	30.57	1,356	157	33.57	--	--	--
Wyoming	27,058	114	19.90	--	--	--	880	165	28.76
Pacific Contiguous	**9,992**	**145**	**24.15**	**59**	**--**	**--**	**186**	**--**	**--**
California	1,576	--	--	42	--	--	186	--	--
Oregon	2,655	145	24.15	--	--	--	--	--	--
Washington	5,761	--	--	17	--	--	--	--	--
Pacific Noncontiguous	**--**	**--**	**--**	**582**	**--**	**--**	**1,021**	**146**	**25.32**
Alaska	--	--	--	--	--	--	922	146	25.32
Hawaii	--	--	--	582	--	--	98	--	--
U.S. Total	**952,273**	**195**	**38.73**	**103,056**	**296**	**63.64**	**14,380**	**177**	**35.46**

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: • Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal. • Receipts reflect data supplied by both regulated and unregulated plants. Average delivered cost of fuel reflects data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Virginia, Florida, Illinois, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report"

Table 3.A. Receipts and Average Delivered Cost of Coal by Type of Purchase, Mine Type, Census Division and State: Total (All Sectors), 2008 (Continued)

Census Division and State	Mine Type								
	Surface			Underground			Unclassified		
	Receipts (1,000 tons)	Cost		Receipts (1,000 tons)	Cost		Receipts (1,000 tons)	Cost	
		(cents per million Btu)	(dollars per ton)		(cents per million Btu)	(dollars per ton)		(cents per million Btu)	(dollars per ton)
New England	**7,526**	**358**	**90.46**	**799**	**345**	**91.45**	**83**	**--**	**--**
Connecticut	1,829	--	--	205	--	--	--	--	--
Maine	234	--	--	9	--	--	--	--	--
Massachusetts	4,590	--	--	--	--	--	83	--	--
New Hampshire	873	358	90.46	586	345	91.45	--	--	--
Rhode Island	--	--	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--	--	--
Middle Atlantic	**33,935**	**349**	**86.08**	**34,754**	**294**	**74.18**	**2,343**	**188**	**48.52**
New Jersey	2,611	413	105.26	1,871	--	--	--	--	--
New York	5,480	290	69.60	3,817	294	74.18	208	188	48.52
Pennsylvania	25,843	--	--	29,066	--	--	2,135	--	--
East North Central	**185,165**	**187**	**36.63**	**56,075**	**205**	**49.34**	**3,715**	**183**	**40.91**
Illinois	56,184	190	34.34	3,948	171	34.67	386	187	40.33
Indiana	44,434	184	37.22	15,910	208	48.09	735	190	43.00
Michigan	29,305	171	31.38	8,205	257	63.06	742	177	44.58
Ohio	31,734	218	49.54	26,127	179	44.28	695	188	45.66
Wisconsin	23,508	183	31.73	1,885	319	76.06	1,157	179	36.52
West North Central	**148,406**	**132**	**21.96**	**5,135**	**182**	**36.45**	**2,530**	**181**	**33.18**
Iowa	25,898	116	19.77	1,024	170	32.42	879	193	32.74
Kansas	21,533	141	24.15	--	--	--	--	--	--
Minnesota	17,379	165	29.18	1,423	179	33.59	1,058	179	32.27
Missouri	43,058	146	25.53	1,436	225	51.83	299	180	42.75
Nebraska	14,207	89	15.09	456	140	23.49	--	--	--
North Dakota	24,074	107	14.07	795	124	23.06	294	--	--
South Dakota	2,257	174	29.16	--	--	--	--	--	--
South Atlantic	**93,700**	**294**	**66.76**	**87,461**	**281**	**69.34**	**2,177**	**509**	**124.74**
Delaware	795	--	--	1,441	--	--	127	--	--
District of Columbia	--	--	--	--	--	--	--	--	--
Florida	13,962	283	65.95	14,841	295	71.36	213	512	125.35
Georgia	28,515	286	59.16	11,067	344	85.26	101	291	71.86
Maryland	5,473	--	--	5,693	--	--	2	--	--
North Carolina	18,665	333	80.84	12,488	319	78.29	241	--	--
South Carolina	4,885	322	80.07	11,024	271	67.28	NM	--	--
Virginia	6,878	255	62.05	7,203	272	68.62	1,431	--	--
West Virginia	14,528	266	61.56	23,704	212	52.08	52	--	--
East South Central	**60,971**	**249**	**51.40**	**54,526**	**232**	**55.21**	**1,011**	**433**	**102.18**
Alabama	22,266	264	52.26	13,786	276	65.35	560	544	131.10
Kentucky	17,463	236	53.06	23,917	204	48.12	19	316	72.14
Mississippi	7,433	315	68.26	2,257	342	81.01	NM	287	66.68
Tennessee	13,808	218	41.94	14,565	213	51.81	393	--	--
West South Central	**156,061**	**175**	**29.22**	**1,030**	**308**	**60.04**	**196**	**--**	**--**
Arkansas	15,534	172	29.84	--	--	--	173	--	--
Louisiana	15,359	236	37.40	16	--	--	24	--	--
Oklahoma	22,228	132	22.81	986	--	--	--	--	--
Texas	102,940	188	30.65	28	308	60.04	--	--	--
Mountain	**89,374**	**153**	**28.31**	**28,957**	**151**	**33.34**	**1,940**	**165**	**31.09**
Arizona	23,270	173	34.00	109	199	44.90	--	--	--
Colorado	13,627	134	24.69	4,869	165	37.38	417	165	37.14
Idaho	--	--	--	--	--	--	198	--	--
Montana	10,970	134	17.43	1,102	--	--	249	--	--
Nevada	1,240	199	37.88	2,525	226	51.78	197	--	--
New Mexico	15,419	199	36.59	--	--	--	--	--	--
Utah	1,379	177	37.60	16,763	136	30.40	--	--	--
Wyoming	23,468	108	18.65	3,590	148	27.89	880	165	28.76
Pacific Contiguous	**8,624**	**145**	**24.15**	**1,427**	**--**	**--**	**186**	**--**	**--**
California	192	--	--	1,427	--	--	186	--	--
Oregon	2,655	145	24.15	--	--	--	--	--	--
Washington	5,777	--	--	--	--	--	--	--	--
Pacific Noncontiguous	**446**	**--**	**--**	**136**	**--**	**--**	**1,021**	**146**	**25.32**
Alaska	--	--	--	--	--	--	922	146	25.32
Hawaii	446	--	--	136	--	--	98	--	--
U.S. Total	**784,207**	**194**	**36.33**	**270,300**	**232**	**55.34**	**15,202**	**202**	**41.14**

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: • Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal. • Receipts reflect data supplied by both regulated and unregulated plants. Average delivered cost of fuel reflects data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Virginia, Florida, Illinois, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report"

Table 3.B. Receipts and Average Delivered Cost of Coal by Type of Purchase, Mine Type, Census Division and State: Total (All Sectors), 2007

Census Division and State	Type of Purchase								
	Contract			Spot			Unclassified/Other		
	Receipts (1,000 tons)	Cost		Receipts (1,000 tons)	Cost		Receipts (1,000 tons)	Cost	
		(cents per million Btu)	(dollars per ton)		(cents per million Btu)	(dollars per ton)		(cents per million Btu)	(dollars per ton)
New England	**5,759**	**313**	**82.18**	**2,707**	**264**	**69.00**	**--**	**--**	**--**
Connecticut	2,008	--	--	--	--	--	--	--	--
Maine	247	--	--	20	--	--	--	--	--
Massachusetts	2,718	--	--	1,976	--	--	--	--	--
New Hampshire	787	313	82.18	711	264	69.00	--	--	--
Rhode Island	--	--	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--	--	--
Middle Atlantic	**60,517**	**298**	**74.93**	**6,157**	**227**	**58.46**	**--**	**--**	**--**
New Jersey	3,743	369	96.94	275	--	--	--	--	--
New York	9,436	265	65.30	563	227	58.46	--	--	--
Pennsylvania	47,338	--	--	5,319	--	--	--	--	--
East North Central	**206,618**	**161**	**33.31**	**30,490**	**181**	**41.68**	**--**	**--**	**--**
Illinois	56,911	137	26.75	1,566	176	36.47	--	--	--
Indiana	52,782	156	32.75	7,100	183	41.74	--	--	--
Michigan	33,034	165	32.19	3,980	197	44.23	--	--	--
Ohio	41,487	165	39.35	16,885	169	40.27	--	--	--
Wisconsin	22,404	164	29.00	960	232	47.51	--	--	--
West North Central	**146,075**	**120**	**19.90**	**5,954**	**158**	**29.78**	**--**	**--**	**--**
Iowa	21,882	104	17.71	710	188	38.35	--	--	--
Kansas	24,228	123	21.12	156	119	20.95	--	--	--
Minnesota	18,933	148	26.30	950	180	31.48	--	--	--
Missouri	43,115	129	22.58	2,728	180	35.93	--	--	--
Nebraska	11,389	88	15.00	1,392	85	14.58	--	--	--
North Dakota	24,912	98	13.01	19	160	27.78	--	--	--
South Dakota	1,616	156	26.57	--	--	--	--	--	--
South Atlantic	**168,042**	**246**	**58.39**	**22,807**	**223**	**54.20**	**--**	**--**	**--**
Delaware	1,792	--	--	615	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--	--
Florida	26,311	255	61.86	5,256	241	57.79	--	--	--
Georgia	39,720	260	56.84	1,958	264	62.49	--	--	--
Maryland	11,546	--	--	241	--	--	--	--	--
North Carolina	32,396	275	68.02	532	254	61.67	--	--	--
South Carolina	12,376	235	59.16	4,519	225	56.06	--	--	--
Virginia	12,072	242	60.14	2,674	233	58.55	--	--	--
West Virginia	31,828	183	44.21	7,011	173	41.59	--	--	--
East South Central	**105,200**	**195**	**43.37**	**12,161**	**214**	**50.76**	**--**	**--**	**--**
Alabama	36,632	205	43.34	1,255	230	55.30	--	--	--
Kentucky	35,054	176	41.08	5,009	190	44.34	--	--	--
Mississippi	8,774	292	67.51	1,190	303	65.92	--	--	--
Tennessee	24,740	187	40.94	4,707	212	51.98	--	--	--
West South Central	**129,623**	**157**	**25.81**	**26,895**	**154**	**26.44**	**--**	**--**	**--**
Arkansas	1,834	169	29.13	13,340	159	27.79	--	--	--
Louisiana	14,705	213	34.25	2,051	--	--	--	--	--
Oklahoma	22,017	117	20.21	46	159	26.28	--	--	--
Texas	91,066	171	27.24	11,458	147	24.87	--	--	--
Mountain	**112,035**	**139**	**27.06**	**4,284**	**155**	**31.66**	**--**	**--**	**--**
Arizona	20,450	155	30.97	1,133	188	35.07	--	--	--
Colorado	17,818	126	24.50	2,010	128	25.35	--	--	--
Idaho	--	--	--	--	--	--	--	--	--
Montana	11,477	111	14.73	1	140	24.31	--	--	--
Nevada	3,236	187	41.53	336	200	46.18	--	--	--
New Mexico	16,012	179	32.87	--	--	--	--	--	--
Utah	16,596	135	30.36	803	154	36.56	--	--	--
Wyoming	26,446	106	18.53	--	--	--	--	--	--
Pacific Contiguous	**6,121**	**--**	**--**	**2,512**	**138**	**23.06**	**--**	**--**	**--**
California	1,021	--	--	136	--	--	--	--	--
Oregon	--	--	--	2,291	138	23.06	--	--	--
Washington	5,100	--	--	85	--	--	--	--	--
Pacific Noncontiguous	**529**	**--**	**--**	**175**	**--**	**--**	**--**	**--**	**--**
Alaska	--	--	--	--	--	--	--	--	--
Hawaii	529	--	--	175	--	--	--	--	--
U.S. Total	**940,521**	**177**	**35.56**	**114,143**	**187**	**39.87**	**--**	**--**	**--**

Notes: • Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal,and synthetic coal. • Receipts reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost of fuel reflects data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Alabama, Florida, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 3.B. Receipts and Average Delivered Cost of Coal by Type of Purchase, Mine Type, Census Division and State: Total (All Sectors), 2007 (Continued)

Census Division and State	Mine Type								
	Surface			Underground			Unclassified		
	Receipts (1,000 tons)	Cost		Receipts (1,000 tons)	Cost		Receipts (1,000 tons)	Cost	
		(cents per million Btu)	(dollars per ton)		(cents per million Btu)	(dollars per ton)		(cents per million Btu)	(dollars per ton)
New England	**5,621**	**--**	**--**	**2,846**	**290**	**75.92**	**--**	**--**	**--**
Connecticut	1,360	--	--	648	--	--	--	--	--
Maine	157	--	--	110	--	--	--	--	--
Massachusetts	4,104	--	--	589	--	--	--	--	--
New Hampshire	--	--	--	1,498	290	75.92	--	--	--
Rhode Island	--	--	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--	--	--
Middle Atlantic	**19,035**	**243**	**59.78**	**33,818**	**232**	**60.30**	**13,820**	**--**	**--**
New Jersey	1,571	--	--	2,447	369	96.94	--	--	--
New York	4,332	243	59.78	5,667	226	58.77	--	--	--
Pennsylvania	13,132	--	--	25,704	--	--	13,820	--	--
East North Central	**182,888**	**156**	**31.28**	**53,048**	**180**	**43.45**	**1,172**	**--**	**--**
Illinois	53,239	129	24.25	5,238	159	33.69	--	--	--
Indiana	44,364	153	31.38	15,518	175	40.73	--	--	--
Michigan	28,550	144	26.45	8,220	234	58.84	244	--	--
Ohio	35,374	176	41.02	22,070	150	37.11	928	--	--
Wisconsin	21,361	155	26.94	2,003	279	67.86	--	--	--
West North Central	**150,033**	**120**	**19.94**	**1,996**	**244**	**58.84**	**--**	**--**	**--**
Iowa	21,868	104	17.68	724	305	72.60	--	--	--
Kansas	24,384	123	21.12	--	--	--	--	--	--
Minnesota	19,858	150	26.48	25	346	84.28	--	--	--
Missouri	44,596	129	22.61	1,248	230	55.72	--	--	--
Nebraska	12,780	88	14.96	--	--	--	--	--	--
North Dakota	24,931	98	13.02	--	--	--	--	--	--
South Dakota	1,616	156	26.57	--	--	--	--	--	--
South Atlantic	**100,639**	**253**	**58.44**	**90,100**	**231**	**57.18**	**109**	**--**	**--**
Delaware	332	--	--	2,076	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--	--
Florida	14,245	265	62.69	17,322	244	59.91	--	--	--
Georgia	34,642	255	54.29	7,037	283	70.59	--	--	--
Maryland	6,482	--	--	5,213	--	--	93	--	--
North Carolina	20,098	276	68.08	12,830	274	67.63	--	--	--
South Carolina	5,911	245	61.27	10,968	226	56.70	17	--	--
Virginia	8,644	241	59.45	6,102	239	60.50	--	--	--
West Virginia	10,287	185	43.19	28,552	180	44.05	--	--	--
East South Central	**55,709**	**203**	**42.87**	**61,652**	**193**	**45.20**	**--**	**--**	**--**
Alabama	19,911	201	41.05	17,976	211	46.70	--	--	--
Kentucky	15,385	187	42.86	24,678	171	40.62	--	--	--
Mississippi	7,830	280	63.67	2,134	322	74.61	--	--	--
Tennessee	12,583	194	38.01	16,865	189	45.86	--	--	--
West South Central	**150,909**	**156**	**26.12**	**5,610**	**133**	**22.49**	**--**	**--**	**--**
Arkansas	15,175	160	27.95	--	--	--	--	--	--
Louisiana	16,756	213	34.25	--	--	--	--	--	--
Oklahoma	21,566	117	20.22	498	--	--	--	--	--
Texas	97,412	166	26.82	5,112	133	22.49	--	--	--
Mountain	**84,506**	**132**	**24.41**	**31,814**	**156**	**33.76**	**--**	**--**	**--**
Arizona	21,525	157	31.18	58	149	32.53	--	--	--
Colorado	16,750	124	23.55	3,078	136	30.24	--	--	--
Idaho	--	--	--	--	--	--	--	--	--
Montana	11,479	111	14.77	--	--	--	--	--	--
Nevada	858	170	32.33	2,714	193	45.02	--	--	--
New Mexico	9,557	152	26.98	6,455	215	41.59	--	--	--
Utah	418	--	--	16,982	136	30.66	--	--	--
Wyoming	23,919	102	17.69	2,527	144	26.29	--	--	--
Pacific Contiguous	**7,398**	**138**	**23.06**	**1,235**	**--**	**--**	**--**	**--**	**--**
California	7	--	--	1,150	--	--	--	--	--
Oregon	2,291	138	23.06	--	--	--	--	--	--
Washington	5,100	--	--	85	--	--	--	--	--
Pacific Noncontiguous	**704**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
Alaska	--	--	--	--	--	--	--	--	--
Hawaii	704	--	--	--	--	--	--	--	--
U.S. Total	**757,443**	**168**	**31.94**	**282,119**	**200**	**47.21**	**15,102**	**--**	**--**

Notes: • Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal,and synthetic coal. • Receipts reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost of fuel reflects data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Alabama, Florida, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.A. Receipts and Average Delivered Cost of Coal by Rank, Census Division and State: Total (All Sectors), 2008

Census Division and State	Bituminous[1]			Subbituminous			Lignite			Total[2]		
	Receipts (1,000 tons)	Heat Value (Btu per pound)	Cost (cents per million Btu)	Receipts (1,000 tons)	Heat Value (Btu per pound)	Cost (cents per million Btu)	Receipts (1,000 tons)	Heat Value (Btu per pound)	Cost (cents per million Btu)	Receipts (1,000 tons)	Heat Value (Btu per pound)	Cost (cents per million Btu)
New England	**6,868**	**11,987**	**353**	**1,526**	**9,194**	**--**	**--**	**--**	**--**	**8,409**	**11,482**	**312**
Connecticut	658	12,409	--	1,376	9,166	--	--	--	--	2,033	10,215	W
Maine	228	12,991	--	--	--	--	--	--	--	243	12,979	W
Massachusetts	4,523	11,586	--	150	9,447	--	--	--	--	4,674	11,517	294
New Hampshire	1,459	12,886	353	--	--	--	--	--	--	1,459	12,886	353
Rhode Island	--	--	--	--	--	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Middle Atlantic	**52,635**	**12,576**	**274**	**6,639**	**8,927**	**--**	**--**	**--**	**--**	**71,032**	**11,164**	**225**
New Jersey	3,340	13,073	413	1,142	9,150	--	--	--	--	4,483	12,073	333
New York	5,635	12,865	257	3,870	8,893	--	--	--	--	9,505	11,248	257
Pennsylvania	43,660	12,501	--	1,626	8,851	--	--	--	--	57,044	11,079	210
East North Central	**105,211**	**11,786**	**205**	**139,184**	**8,789**	**175**	**--**	**--**	**--**	**244,955**	**10,072**	**190**
Illinois	5,235	10,819	192	54,724	8,728	--	--	--	--	60,517	8,892	158
Indiana	40,992	11,314	193	20,087	8,796	186	--	--	--	61,080	10,486	193
Michigan	9,690	12,570	271	28,561	8,997	161	--	--	--	38,251	9,902	197
Ohio	46,261	12,138	195	12,293	8,836	217	--	--	--	58,556	11,444	205
Wisconsin	3,032	11,948	309	23,519	8,648	181	--	--	--	26,551	9,025	198
West North Central	**3,610**	**11,480**	**244**	**128,633**	**8,628**	**136**	**23,827**	**6,543**	**107**	**156,070**	**8,375**	**137**
Iowa	1,182	10,926	277	26,619	8,502	115	--	--	--	27,801	8,605	127
Kansas	216	10,935	179	21,317	8,521	141	--	--	--	21,533	8,545	141
Minnesota	240	11,683	362	19,620	8,868	163	--	--	--	19,860	8,902	169
Missouri	1,960	11,852	233	42,833	8,699	146	--	--	--	44,793	8,837	151
Nebraska	12	11,065	196	14,651	8,494	90	--	--	--	14,663	8,496	90
North Dakota	--	--	--	1,336	8,877	132	23,827	6,543	107	25,163	6,667	110
South Dakota	--	--	--	2,257	8,391	174	--	--	--	2,257	8,391	174
South Atlantic	**164,524**	**12,266**	**295**	**17,585**	**8,622**	**207**	**--**	**--**	**--**	**183,337**	**11,888**	**291**
Delaware	2,318	12,456	--	45	12,225	--	--	--	--	2,363	12,452	W
District of Columbia	--	--	--	--	--	--	--	--	--	--	--	--
Florida	28,952	11,935	290	64	8,900	304	--	--	--	29,016	11,929	297
Georgia	25,070	12,356	345	14,613	8,529	206	--	--	--	39,683	10,947	307
Maryland	10,909	12,445	--	258	8,816	--	--	--	--	11,167	12,361	366
North Carolina	31,394	12,243	327	--	--	--	--	--	--	31,394	12,243	326
South Carolina	15,919	12,435	286	--	--	--	--	--	--	15,919	12,435	W
Virginia	15,511	12,492	264	--	--	--	--	--	--	15,511	12,492	277
West Virginia	34,451	12,248	237	2,605	9,058	210	--	--	--	38,284	11,897	222
East South Central	**87,027**	**11,823**	**253**	**26,156**	**8,767**	**189**	**3,018**	**5,068**	**--**	**116,508**	**10,961**	**241**
Alabama	23,212	11,785	311	13,402	8,708	178	--	--	--	36,613	10,659	271
Kentucky	39,126	11,672	219	1,967	8,834	183	--	--	--	41,399	11,534	214
Mississippi	5,700	11,599	334	1,012	8,738	258	3,018	5,068	--	9,730	9,276	W
Tennessee	18,990	12,250	222	9,775	8,836	198	--	--	--	28,765	11,090	W
West South Central	**867**	**10,827**	**--**	**114,637**	**8,545**	**172**	**41,783**	**6,571**	**203**	**157,287**	**8,033**	**164**
Arkansas	173	11,968	--	15,534	8,675	172	--	--	--	15,707	8,711	W
Louisiana	21	11,968	--	11,520	8,530	269	3,859	7,125	189	15,399	8,183	W
Oklahoma	673	10,500	--	22,540	8,635	132	--	--	--	23,213	8,689	W
Texas	--	--	--	65,043	8,485	185	37,925	6,514	213	102,968	7,759	162
Mountain	**40,716**	**10,916**	**166**	**78,513**	**8,890**	**144**	**316**	**6,490**	**134**	**120,272**	**9,557**	**150**
Arizona	8,395	10,820	171	14,984	9,272	174	--	--	--	23,379	9,828	W
Colorado	5,846	11,245	166	13,066	9,169	132	--	--	--	18,913	9,811	W
Idaho	76	11,968	--	123	8,699	--	--	--	--	198	9,947	W
Montana	--	--	--	11,756	8,435	--	316	6,490	134	12,321	8,347	W
Nevada	2,525	11,478	226	1,438	9,235	199	--	--	--	3,963	10,664	W
New Mexico	6,086	9,514	224	9,332	8,951	182	--	--	--	15,419	9,173	199
Utah	17,260	11,227	136	405	8,813	263	--	--	--	18,142	11,060	W
Wyoming	528	11,968	--	27,410	8,707	115	--	--	--	27,938	8,769	W
Pacific Contiguous	**1,804**	**11,667**	**--**	**8,432**	**8,358**	**145**	**--**	**--**	**--**	**10,236**	**8,941**	**215**
California	1,804	11,667	--	--	--	--	--	--	--	1,804	11,667	W
Oregon	--	--	--	2,655	8,339	145	--	--	--	2,655	8,339	145
Washington	--	--	--	5,777	8,366	--	--	--	--	5,777	8,366	W
Pacific Noncontiguous	**681**	**10,669**	**--**	**922**	**8,698**	**146**	**--**	**--**	**--**	**1,603**	**9,535**	**277**
Alaska	--	--	--	922	8,698	146	--	--	--	922	8,698	W
Hawaii	681	10,669	--	--	--	--	--	--	--	681	10,669	W
U.S. Total	**463,943**	**11,973**	**249**	**522,228**	**8,700**	**158**	**68,945**	**6,495**	**135**	**1,069,709**	**9,947**	**207**

[1] Includes anthracite.
[2] Includes waste coal and synthetic coal not included elsewhere in this table.
W = Withheld to avoid disclosure of individual company data.

Notes: • Receipts, heat value, and total average delivered cost reflect data supplied by both regulated and unregulated plants. Average delivered cost for Bituminous, Subbituminous, and Lignite reflect data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Virginia, Florida, Illinois, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report"

Table 4.B. Receipts and Average Delivered Cost of Coal by Rank, Census Division and State: Total (All Sectors), 2007

Census Division and State	Bituminous[1]			Subbituminous			Lignite			Total[2]		
	Receipts (1,000 tons)	Heat Value (Btu per pound)	Cost (cents per million Btu)	Receipts (1,000 tons)	Heat Value (Btu per pound)	Cost (cents per million Btu)	Receipts (1,000 tons)	Heat Value (Btu per pound)	Cost (cents per million Btu)	Receipts (1,000 tons)	Heat Value (Btu per pound)	Cost (cents per million Btu)
New England	**6,994**	**12,095**	**290**	**1,452**	**9,213**	**--**	**--**	**--**	**--**	**8,467**	**11,602**	**285**
Connecticut	695	12,323	--	1,313	9,207	--	--	--	--	2,008	10,286	W
Maine	247	13,201	--	--	--	--	--	--	--	267	13,171	W
Massachusetts	4,554	11,666	--	140	9,265	--	--	--	--	4,694	11,595	278
New Hampshire	1,498	13,109	290	--	--	--	--	--	--	1,498	13,109	290
Rhode Island	--	--	--	--	--	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Middle Atlantic	**38,663**	**12,560**	**234**	**6,541**	**8,904**	**--**	**--**	**--**	**--**	**66,674**	**11,427**	**192**
New Jersey	2,925	12,911	369	1,092	9,156	--	--	--	--	4,017	11,890	289
New York	6,132	12,955	229	3,868	8,888	--	--	--	--	9,999	11,382	241
Pennsylvania	29,606	12,443	--	1,581	8,767	--	--	--	--	52,657	11,400	175
East North Central	**101,109**	**11,803**	**168**	**130,091**	**8,796**	**155**	**--**	**--**	**--**	**237,109**	**10,146**	**160**
Illinois	5,620	10,754	149	51,946	8,739	128	--	--	--	58,477	8,962	134
Indiana	41,909	11,348	152	17,973	8,814	183	--	--	--	59,882	10,588	W
Michigan	9,454	12,620	238	27,561	8,994	138	--	--	--	37,014	9,920	172
Ohio	41,988	12,200	163	11,387	8,805	194	--	--	--	58,372	11,495	171
Wisconsin	2,139	12,054	278	21,225	8,657	154	--	--	--	23,364	8,967	W
West North Central	**3,099**	**11,547**	**233**	**124,836**	**8,639**	**122**	**23,789**	**6,504**	**97**	**152,029**	**8,368**	**W**
Iowa	606	11,393	280	21,680	8,513	102	--	--	--	22,592	8,619	W
Kansas	390	11,047	175	23,993	8,542	122	--	--	--	24,384	8,582	123
Minnesota	194	11,410	375	19,689	8,828	147	--	--	--	19,883	8,853	W
Missouri	1,909	11,712	220	43,935	8,700	128	--	--	--	45,843	8,825	W
Nebraska	--	--	--	12,780	8,511	88	--	--	--	12,780	8,511	88
North Dakota	--	--	--	1,143	9,060	113	23,789	6,504	97	24,931	6,621	98
South Dakota	--	--	--	1,616	8,530	156	--	--	--	1,616	8,530	156
South Atlantic	**172,969**	**12,346**	**246**	**16,840**	**8,630**	**202**	**--**	**--**	**--**	**190,849**	**11,997**	**238**
Delaware	2,407	12,524	--	--	--	--	--	--	--	2,407	12,524	W
District of Columbia	--	--	--	--	--	--	--	--	--	--	--	--
Florida	31,406	12,115	253	--	--	--	--	--	--	31,566	12,116	256
Georgia	26,316	12,384	286	15,363	8,583	199	--	--	--	41,679	10,983	261
Maryland	11,788	12,501	--	--	--	--	--	--	--	11,788	12,501	212
North Carolina	32,928	12,374	275	--	--	--	--	--	--	32,928	12,374	274
South Carolina	16,819	12,538	233	--	--	--	--	--	--	16,895	12,539	W
Virginia	14,746	12,531	240	--	--	--	--	--	--	14,746	12,531	249
West Virginia	36,558	12,268	180	1,477	9,120	226	--	--	--	38,839	12,046	173
East South Central	**81,937**	**11,852**	**203**	**23,987**	**8,778**	**163**	**3,387**	**5,100**	**--**	**117,361**	**11,030**	**W**
Alabama	18,680	11,743	214	14,369	8,771	166	--	--	--	37,887	10,644	W
Kentucky	35,862	11,770	180	1,294	8,815	144	--	--	--	40,063	11,661	175
Mississippi	6,425	11,510	294	152	8,823	252	3,387	5,100	--	9,964	9,290	W
Tennessee	20,970	12,195	200	8,172	8,782	159	--	--	--	29,447	11,255	W
West South Central	**857**	**10,723**	**--**	**111,206**	**8,569**	**154**	**44,456**	**6,490**	**175**	**156,519**	**7,991**	**150**
Arkansas	--	--	--	15,175	8,717	160	--	--	--	15,175	8,717	160
Louisiana	--	--	--	13,688	8,558	237	3,068	6,855	164	16,756	8,246	W
Oklahoma	857	10,723	--	21,206	8,655	117	--	--	--	22,063	8,735	W
Texas	--	--	--	61,136	8,506	161	41,388	6,463	181	102,524	7,681	W
Mountain	**32,294**	**11,146**	**146**	**82,105**	**8,965**	**138**	**299**	**6,624**	**111**	**116,319**	**9,587**	**136**
Arizona	7,995	10,894	142	13,588	9,387	167	--	--	--	21,583	9,946	W
Colorado	5,807	11,049	146	14,021	9,178	117	--	--	--	19,828	9,726	126
Idaho	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	11,180	8,474	140	299	6,624	111	11,479	8,426	W
Nevada	2,714	11,674	193	858	9,500	170	--	--	--	3,572	11,151	188
New Mexico	--	--	--	16,012	9,198	179	--	--	--	16,012	9,198	179
Utah	15,779	11,219	139	--	--	--	--	--	--	17,400	11,156	W
Wyoming	--	--	--	26,446	8,684	106	--	--	--	26,446	8,684	W
Pacific Contiguous	**1,232**	**11,874**	**--**	**7,391**	**8,915**	**138**	**--**	**--**	**--**	**8,633**	**9,341**	**179**
California	1,148	11,865	--	--	--	--	--	--	--	1,157	11,868	W
Oregon	--	--	--	2,291	8,360	138	--	--	--	2,291	8,360	138
Washington	85	12,000	--	5,100	9,165	--	--	--	--	5,184	9,211	W
Pacific Noncontiguous	**--**	**--**	**--**	**704**	**10,871**	**--**	**--**	**--**	**--**	**704**	**10,871**	**W**
Alaska	--	--	--	--	--	--	--	--	--	--	--	--
Hawaii	--	--	--	704	10,871	--	--	--	--	704	10,871	W
U.S. Total	**439,154**	**12,045**	**208**	**505,155**	**8,736**	**143**	**71,930**	**6,430**	**120**	**1,054,664**	**10,028**	**177**

[1] Includes anthracite.
[2] Includes waste coal and synthetic coal not included elsewhere in this table.
W = Withheld to avoid disclosure of individual company data.

Notes: • Receipts, heat value, and total average delivered cost of fuel reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost for Bituminous, Subbituminous and Lignite reflect data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Alabama, Florida, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 5. Receipts of Petroleum Liquids to Electric Plants by Census Division and State: Total (All Sectors), 2008 and 2007

(Thousand Barrels)

Census Division and State	2008	2007
New England	**7,014**	**8,561**
Connecticut	686	1,722
Maine	1,929	1,536
Massachusetts	3,714	4,926
New Hampshire	585	372
Rhode Island	88	5
Vermont	NM	--
Middle Atlantic	**8,595**	**15,676**
New Jersey	817	870
New York	5,976	13,030
Pennsylvania	1,802	1,775
East North Central	**2,320**	**2,075**
Illinois	271	286
Indiana	372	288
Michigan	734	842
Ohio	570	575
Wisconsin	372	84
West North Central	**1,000**	**362**
Iowa	186	78
Kansas	100	61
Minnesota	234	99
Missouri	155	64
Nebraska	88	12
North Dakota	168	48
South Dakota	69	--
South Atlantic	**21,267**	**27,760**
Delaware	457	366
District of Columbia	166	198
Florida	14,234	19,422
Georgia	1,388	736
Maryland	869	1,607
North Carolina	NM	1,209
South Carolina	571	458
Virginia	2,133	3,151
West Virginia	264	613
East South Central	**1,668**	**1,139**
Alabama	589	246
Kentucky	290	179
Mississippi	253	597
Tennessee	536	117
West South Central	**997**	**592**
Arkansas	147	50
Louisiana	634	138
Oklahoma	35	220
Texas	180	184
Mountain	**542**	**318**
Arizona	109	78
Colorado	68	20
Idaho	NM	--
Montana	65	31
Nevada	31	--
New Mexico	103	70
Utah	82	48
Wyoming	84	72
Pacific Contiguous	**699**	**797**
California	363	583
Oregon	NM	5
Washington	307	209
Pacific Noncontiguous	**17,038**	**2,787**
Alaska	1,659	--
Hawaii	15,378	2,787
U.S. Total	**61,139**	**60,068**

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: • Includes distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, and waste oil. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Totals may not equal sum of components because of independent rounding.

Sources: 2008 data source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" 2007 data sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 6. Average Delivered Cost of Petroleum Liquids by Census Division and State: Total (All Sectors), 2008 and 2007

Census Division and State	2008		2007		Percent Change 2007-2008 (cents per million Btu)	Percent Change 2007-2008 (dollars per barrel)
	(cents per million Btu)	(dollars per barrel)	(cents per million Btu)	(dollars per barrel)		
New England	**1,294**	**81.21**	**919**	**58.04**	**40.73**	**39.92**
Connecticut	1,744	108.85	971	60.32	79.67	80.45
Maine	1,081	67.88	W	W	W	W
Massachusetts	1,347	84.53	W	W	W	W
New Hampshire	1,069	68.40	W	W	W	W
Rhode Island	1,649	98.20	W	W	W	W
Vermont	1,999	115.97	--	--	--	--
Middle Atlantic	**1,463**	**90.43**	**W**	**W**	**W**	**W**
New Jersey	1,547	89.81	1,147	65.63	34.93	36.84
New York	W	W	W	W	W	W
Pennsylvania	W	W	W	W	W	W
East North Central	**W**	**W**	**W**	**W**	**W**	**W**
Illinois	2,432	140.24	1,744	100.57	39.45	39.45
Indiana	2,002	117.31	W	W	W	W
Michigan	W	W	W	W	W	W
Ohio	W	W	W	W	W	W
Wisconsin	W	W	1,646	96.63	W	W
West North Central	**W**	**W**	**1,675**	**96.90**	**W**	**W**
Iowa	W	W	1,745	100.84	W	W
Kansas	2,220	128.29	1,661	95.90	33.63	33.77
Minnesota	W	W	1,553	89.61	W	W
Missouri	W	W	1,713	98.89	W	W
Nebraska	1,772	103.81	1,669	96.75	6.18	7.30
North Dakota	W	W	1,783	104.21	W	W
South Dakota	W	W	--	--	--	--
South Atlantic	**W**	**W**	**W**	**W**	**W**	**W**
Delaware	1,811	109.34	1,304	78.92	38.87	38.55
District of Columbia	W	W	W	W	W	W
Florida	1,396	89.63	925	59.34	50.87	51.04
Georgia	W	W	W	W	W	W
Maryland	1,721	103.36	1,060	64.82	62.41	59.46
North Carolina	NM	NM	W	W	W	W
South Carolina	W	W	W	W	W	W
Virginia	1,380	85.40	922	57.39	49.65	48.81
West Virginia	W	W	W	W	W	W
East South Central	**W**	**W**	**W**	**W**	**W**	**W**
Alabama	1,672	98.37	W	W	W	W
Kentucky	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W
Tennessee	W	W	1,611	91.37	W	W
West South Central	**1,151**	**71.52**	**W**	**W**	**W**	**W**
Arkansas	W	W	1,479	87.23	W	W
Louisiana	W	W	W	W	W	W
Oklahoma	W	W	W	W	W	W
Texas	W	W	W	W	W	W
Mountain	**W**	**W**	**W**	**W**	**W**	**W**
Arizona	W	W	1,671	98.88	W	W
Colorado	W	W	W	W	W	W
Idaho	NM	NM	--	--	NM	NM
Montana	W	W	W	W	W	W
Nevada	W	W	--	--	--	--
New Mexico	W	W	W	W	W	W
Utah	2,217	129.40	1,753	102.64	26.44	26.07
Wyoming	W	W	1,772	103.78	W	W
Pacific Contiguous	**W**	**W**	**W**	**W**	**W**	**W**
California	W	W	W	W	W	W
Oregon	W	W	1,619	97.24	W	W
Washington	W	W	W	W	W	W
Pacific Noncontiguous	**1,788**	**106.89**	**W**	**W**	**W**	**W**
Alaska	W	W	--	--	--	--
Hawaii	W	W	W	W	W	W
U.S. Total	**1,552**	**95.38**	**959**	**59.93**	**61.80**	**59.15**

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes: • Includes distillate fuel oil (all diesel and No. 1, No. 2, and No. 4 fuel oils), residual fuel oil (No. 5 and No. 6 fuel oils and bunker C fuel oil), jet fuel, kerosene, and waste oil. • Totals may not equal sum of components because of independent rounding. • Monetary values are expressed in nominal terms.

Sources: 2008 data source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" 2007 data sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 7.A. Receipts and Average Delivered Cost of Distillate Fuel Oil by Type of Purchase, Census Division and State: Total (All Sectors), 2008

Census Division and State	Contract			Spot			Unclassified/Other			Total		
	Receipts (1,000 barrels)	Cost (cents per million Btu)	Cost ($ per bbl)	Receipts (1,000 barrels)	Cost (cents per million Btu)	Cost ($ per bbl)	Receipts (1,000 barrels)	Cost (cents per million Btu)	Cost ($ per bbl)	Receipts (1,000 barrels)	Cost (cents per million Btu)	Cost ($ per bbl)
New England	**135**	**1,386**	**80.74**	**183**	**2,158**	**124.84**	**102**	**2,040**	**118.58**	**421**	**1,677**	**97.53**
Connecticut	22	--	--	38	2,458	142.98	NM	2,036	118.01	72	2,242	130.18
Maine	10	--	--	1	--	--	NM	1,991	117.33	28	1,991	117.33
Massachusetts	94	1,386	80.74	98	2,018	117.55	NM	2,030	118.03	215	1,444	84.10
New Hampshire	10	--	--	18	2,154	124.37	NM	NM	NM	36	2,143	123.73
Rhode Island	--	--	--	29	--	--	36	2,027	117.76	65	2,027	117.76
Vermont	--	--	--	--	--	--	NM	2,116	122.70	NM	2,116	122.70
Middle Atlantic	**847**	**2,644**	**156.65**	**850**	**1,925**	**114.01**	**479**	**2,040**	**119.66**	**2,176**	**2,438**	**144.13**
New Jersey	25	2,185	127.92	112	--	--	48	2,028	118.67	185	2,038	119.21
New York	484	2,645	156.74	201	1,925	114.01	356	2,043	119.90	1,041	2,453	145.09
Pennsylvania	338	--	--	538	--	--	75	2,030	118.00	950	2,030	118.00
East North Central	**529**	**2,285**	**131.87**	**1,166**	**2,206**	**128.03**	**96**	**2,267**	**131.41**	**1,792**	**2,233**	**129.35**
Illinois	95	2,694	153.26	166	2,471	142.22	NM	NM	NM	271	2,331	134.17
Indiana	163	2,302	132.52	140	2,144	124.54	NM	NM	NM	312	2,229	128.81
Michigan	3	2,124	123.01	419	2,449	142.01	69	2,337	135.58	491	2,438	141.38
Ohio	266	2,274	131.48	302	1,801	104.48	NM	NM	NM	570	2,065	119.55
Wisconsin	2	1,497	83.83	139	2,115	123.08	NM	NM	NM	148	2,120	123.39
West North Central	**164**	**2,051**	**118.53**	**587**	**2,198**	**127.11**	**84**	**2,230**	**129.18**	**835**	**2,174**	**125.71**
Iowa	67	1,998	115.98	101	2,356	135.25	17	NM	NM	186	2,219	127.98
Kansas	--	--	--	90	2,240	129.44	NM	NM	NM	100	2,220	128.29
Minnesota	34	1,587	90.57	109	2,189	125.17	26	2,324	133.81	169	2,155	123.33
Missouri	6	1,339	78.04	136	2,139	123.80	NM	NM	NM	154	2,102	121.70
Nebraska	1	2,472	141.88	64	2,101	122.16	NM	NM	NM	70	2,120	123.38
North Dakota	32	2,540	146.20	49	2,266	133.63	NM	2,362	138.27	87	2,372	138.57
South Dakota	24	1,870	107.48	38	1,988	116.07	NM	2,323	135.10	69	1,979	114.89
South Atlantic	**1,714**	**1,953**	**113.54**	**2,017**	**2,075**	**121.17**	**245**	**1,921**	**111.32**	**3,975**	**2,012**	**117.23**
Delaware	195	--	--	64	--	--	NM	2,026	117.42	263	2,026	117.42
District of Columbia	33	--	--	134	--	--	--	--	--	166	--	--
Florida	255	2,309	134.48	574	2,120	124.14	NM	1,573	91.83	852	2,176	127.21
Georgia	418	1,704	99.13	109	1,306	75.98	96	--	--	624	1,622	94.35
Maryland	104	--	--	425	--	--	NM	2,032	117.91	548	2,032	117.91
North Carolina	430	1,969	114.30	18	2,291	132.90	NM	1,578	91.64	463	1,976	114.72
South Carolina	187	1,815	105.14	*	2,869	166.43	NM	2,010	116.54	194	1,820	105.42
Virginia	37	1,627	94.91	496	2,145	124.83	80	2,031	117.30	613	2,137	124.34
West Virginia	56	2,289	134.90	197	2,166	126.45	--	--	--	253	2,193	128.27
East South Central	**168**	**2,218**	**127.34**	**764**	**1,683**	**96.25**	**164**	**2,067**	**120.07**	**1,096**	**1,776**	**101.67**
Alabama	117	2,189	125.20	149	1,566	88.83	105	1,369	78.67	371	1,813	103.16
Kentucky	44	2,275	131.36	244	2,111	123.18	NM	2,160	125.83	290	2,145	124.90
Mississippi	7	2,145	123.26	6	1,802	105.99	41	2,056	119.79	54	2,029	118.04
Tennessee	--	--	--	366	1,514	85.95	NM	2,087	118.48	382	1,518	86.18
West South Central	**47**	**2,264**	**131.92**	**238**	**1,703**	**100.47**	**NM**	**NM**	**NM**	**293**	**1,715**	**101.11**
Arkansas	1	1,554	91.71	49	1,641	95.76	NM	1,977	115.70	53	1,641	95.74
Louisiana	22	2,192	124.94	68	1,570	94.66	NM	2,035	119.65	91	1,572	94.75
Oklahoma	*	--	--	11	1,539	91.89	NM	NM	NM	13	1,555	92.68
Texas	24	2,451	142.38	110	2,079	119.09	NM	1,900	109.68	136	2,101	120.42
Mountain	**253**	**2,286**	**131.71**	**172**	**2,099**	**120.31**	**72**	**2,296**	**133.40**	**496**	**2,221**	**127.85**
Arizona	14	2,218	129.05	92	2,012	116.69	NM	2,314	134.50	109	2,050	118.98
Colorado	--	--	--	34	2,088	117.29	23	2,323	132.85	58	2,167	122.49
Idaho	--	--	--	--	--	--	NM	2,355	136.54	NM	NM	NM
Montana	30	--	--	5	1,986	116.77	NM	2,290	135.76	38	2,063	121.58
Nevada	15	2,575	149.41	12	2,214	128.99	NM	2,312	134.80	31	2,360	137.33
New Mexico	87	2,291	129.68	16	2,710	149.07	NM	--	--	103	2,353	132.61
Utah	34	2,231	130.26	12	1,978	114.73	35	2,287	133.79	82	2,217	129.40
Wyoming	71	2,287	133.37	1	24	1.31	NM	2,219	129.27	76	2,263	131.86
Pacific Contiguous	**25**	**2,518**	**145.79**	**106**	**2,096**	**121.71**	**114**	**2,232**	**129.83**	**245**	**2,198**	**127.73**
California	6	2,518	145.79	75	2,295	133.09	101	2,233	129.84	182	2,258	131.23
Oregon	--	--	--	14	976	56.62	--	--	--	14	976	56.62
Washington	18	--	--	17	2,783	161.97	NM	2,145	127.86	48	2,757	160.63
Pacific Noncontiguous	**1,996**	**2,286**	**132.09**	**77**	**2,649**	**147.45**	**1,004**	**2,366**	**133.61**	**3,077**	**2,315**	**132.86**
Alaska	--	--	--	68	2,649	147.45	675	2,385	133.85	743	2,412	135.29
Hawaii	1,996	2,286	132.09	9	--	--	330	2,297	132.70	2,335	2,286	132.13
U.S. Total	**5,877**	**2,204**	**127.78**	**6,160**	**2,052**	**118.91**	**2,369**	**2,282**	**130.38**	**14,406**	**2,153**	**124.56**

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as "*.")

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: • Distillate fuel oil includes all diesel, No. 1, No. 2, and No. 4 fuel oils. • Receipts reflect data supplied by both regulated and unregulated plants. Average delivered cost of fuel reflects data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report"

Table 7.B. Receipts and Average Delivered Cost of Distillate Fuel Oil by Type of Purchase, Census Division and State: Total (All Sectors), 2007

Census Division and State	Contract			Spot			Unclassified/Other			Total		
	Receipts (1,000 barrels)	Cost (cents per million Btu)	Cost ($ per bbl)	Receipts (1,000 barrels)	Cost (cents per million Btu)	Cost ($ per bbl)	Receipts (1,000 barrels)	Cost (cents per million Btu)	Cost ($ per bbl)	Receipts (1,000 barrels)	Cost (cents per million Btu)	Cost ($ per bbl)
New England	**85**	**--**	**--**	**135**	**1,577**	**91.39**	**--**	**--**	**--**	**219**	**1,577**	**91.38**
Connecticut	30	--	--	46	--	--	--	--	--	77	--	--
Maine	6	--	--	7	--	--	--	--	--	13	--	--
Massachusetts	18	--	--	58	1,591	92.97	--	--	--	76	1,591	92.97
New Hampshire	30	--	--	18	1,576	91.19	--	--	--	48	1,576	91.19
Rhode Island	--	--	--	5	--	--	--	--	--	5	--	--
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Middle Atlantic	**605**	**1,277**	**74.88**	**559**	**--**	**--**	**139**	**--**	**--**	**1,303**	**1,277**	**74.88**
New Jersey	38	1,631	95.24	160	--	--	--	--	--	198	1,631	95.24
New York	139	1,263	74.05	82	--	--	139	--	--	361	1,263	74.05
Pennsylvania	427	--	--	317	--	--	--	--	--	744	--	--
East North Central	**602**	**1,633**	**94.63**	**836**	**1,610**	**93.43**	**--**	**--**	**--**	**1,439**	**1,618**	**93.85**
Illinois	155	1,533	87.34	131	1,863	107.17	--	--	--	286	1,830	105.17
Indiana	74	1,597	92.30	153	1,495	86.69	--	--	--	228	1,529	88.52
Michigan	--	--	--	266	1,641	95.18	--	--	--	266	1,641	95.18
Ohio	373	1,644	95.37	202	1,558	90.28	--	--	--	575	1,616	93.73
Wisconsin	--	--	--	84	1,652	97.11	--	--	--	84	1,652	97.11
West North Central	**21**	**1,828**	**106.01**	**341**	**1,692**	**97.92**	**--**	**--**	**--**	**362**	**1,701**	**98.45**
Iowa	--	--	--	78	1,745	100.84	--	--	--	78	1,745	100.84
Kansas	--	--	--	61	1,661	95.90	--	--	--	61	1,661	95.90
Minnesota	*	--	--	98	1,587	91.62	--	--	--	99	1,587	91.62
Missouri	1	1,494	88.45	64	1,716	99.04	--	--	--	64	1,713	98.89
Nebraska	1	1,850	107.36	12	1,660	96.19	--	--	--	12	1,669	96.75
North Dakota	19	1,843	106.77	29	1,744	102.55	--	--	--	48	1,783	104.21
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--
South Atlantic	**1,855**	**1,557**	**90.52**	**2,156**	**1,489**	**86.69**	**--**	**--**	**--**	**4,011**	**1,522**	**88.54**
Delaware	6	--	--	210	--	--	--	--	--	217	--	--
District of Columbia	198	--	--	--	--	--	--	--	--	198	--	--
Florida	220	1,601	92.89	559	1,567	90.83	--	--	--	779	1,577	91.41
Georgia	78	1,244	72.39	80	1,714	99.73	--	--	--	158	1,582	92.05
Maryland	174	--	--	498	--	--	--	--	--	672	--	--
North Carolina	354	1,494	86.74	12	1,383	80.14	--	--	--	366	1,491	86.53
South Carolina	213	1,587	91.97	--	--	--	--	--	--	213	1,587	91.97
Virginia	110	1,482	85.76	707	1,356	79.38	--	--	--	817	1,358	79.45
West Virginia	501	1,622	95.11	89	1,429	83.53	--	--	--	590	1,564	91.60
East South Central	**135**	**1,476**	**86.44**	**311**	**1,593**	**91.14**	**2**	**1,316**	**78.96**	**448**	**1,563**	**89.96**
Alabama	94	1,280	74.94	38	1,563	87.65	2	1,316	78.96	135	1,413	81.14
Kentucky	28	1,757	102.74	152	1,592	92.71	--	--	--	179	1,627	94.85
Mississippi	13	1,478	86.75	4	1,323	77.34	--	--	--	16	1,443	84.63
Tennessee	--	--	--	117	1,611	91.37	--	--	--	117	1,611	91.37
West South Central	**46**	**1,597**	**94.23**	**255**	**1,508**	**88.55**	**--**	**--**	**--**	**301**	**1,522**	**89.38**
Arkansas	--	--	--	50	1,479	87.23	--	--	--	50	1,479	87.23
Louisiana	46	1,598	94.30	5	928	55.83	--	--	--	51	1,430	84.79
Oklahoma	--	--	--	16	1,639	95.30	--	--	--	16	1,639	95.30
Texas	*	1,483	87.38	184	1,636	94.99	--	--	--	184	1,635	94.93
Mountain	**38**	**1,642**	**95.13**	**265**	**1,783**	**104.17**	**--**	**--**	**--**	**303**	**1,772**	**103.42**
Arizona	5	1,190	69.30	73	1,703	100.92	--	--	--	78	1,671	98.88
Colorado	2	1,929	107.16	18	1,822	107.96	--	--	--	20	1,845	107.78
Idaho	--	--	--	--	--	--	--	--	--	--	--	--
Montana	16	--	--	--	--	--	--	--	--	16	--	--
Nevada	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	70	1,897	108.36	--	--	--	70	1,897	108.36
Utah	--	--	--	48	1,753	102.64	--	--	--	48	1,753	102.64
Wyoming	16	1,755	102.00	57	1,777	104.28	--	--	--	72	1,772	103.78
Pacific Contiguous	**--**	**--**	**--**	**54**	**1,619**	**97.24**	**--**	**--**	**--**	**54**	**1,619**	**97.24**
California	--	--	--	49	--	--	--	--	--	49	--	--
Oregon	--	--	--	5	1,619	97.24	--	--	--	5	1,619	97.24
Washington	--	--	--	--	--	--	--	--	--	--	--	--
Pacific Noncontiguous	**7**	**--**	**--**	**6**	**--**	**--**	**--**	**--**	**--**	**13**	**--**	**--**
Alaska	--	--	--	--	--	--	--	--	--	--	--	--
Hawaii	7	--	--	6	--	--	--	--	--	13	--	--
U.S. Total	**3,393**	**1,570**	**91.28**	**4,917**	**1,584**	**91.96**	**142**	**1,316**	**78.96**	**8,452**	**1,579**	**91.70**

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as "*.")

Notes: • Distillate fuel oil includes all diesel, No. 1, No. 2, and No. 4 fuel oils. • Receipts reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost of fuel reflects data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 7.C. Receipts and Average Delivered Cost of Residual Fuel Oil by Type of Purchase, Census Division and State: Total (All Sectors), 2008

Census Division and State	Contract			Spot			Unclassified/Other			Total		
		Cost			Cost			Cost			Cost	
	Receipts (1,000 barrels)	(cents per million Btu)	($ per bbl)	Receipts (1,000 barrels)	(cents per million Btu)	($ per bbl)	Receipts (1,000 barrels)	(cents per million Btu)	($ per bbl)	Receipts (1,000 barrels)	(cents per million Btu)	($ per bbl)
New England	**1,156**	**--**	**--**	**4,092**	**967**	**62.44**	**1,105**	**1,134**	**71.65**	**6,353**	**968**	**62.51**
Connecticut	520	--	--	22	--	--	NM	--	--	582	--	--
Maine	592	--	--	304	--	--	834	--	--	1,730	--	--
Massachusetts	44	--	--	3,330	947	60.76	NM	1,175	74.09	3,470	980	62.69
New Hampshire	--	--	--	436	967	62.50	NM	--	--	546	967	62.50
Rhode Island	--	--	--	--	--	--	NM	--	--	NM	NM	NM
Vermont	--	--	--	--	--	--	NM	1,031	65.46	NM	NM	NM
Middle Atlantic	**3,878**	**1,227**	**78.33**	**1,740**	**--**	**--**	**373**	**--**	**--**	**5,990**	**1,227**	**78.33**
New Jersey	388	1,158	72.96	28	--	--	--	--	--	417	1,158	72.96
New York	3,489	1,234	78.93	1,040	--	--	214	--	--	4,744	1,234	78.93
Pennsylvania	--	--	--	671	--	--	NM	--	--	830	--	--
East North Central	**5**	**--**	**--**	**256**	**1,059**	**68.33**	**249**	**1,103**	**72.03**	**511**	**1,059**	**68.34**
Illinois	--	--	--	--	--	--	--	--	--	--	--	--
Indiana	5	--	--	55	--	--	NM	--	--	60	--	--
Michigan	--	--	--	201	1,059	68.33	NM	1,103	72.03	227	1,059	68.34
Ohio	--	--	--	--	--	--	--	--	--	--	--	--
Wisconsin	--	--	--	--	--	--	224	--	--	224	--	--
West North Central	**13**	**633**	**41.18**	**21**	**534**	**32.31**	**NM**	**--**	**--**	**NM**	**574**	**35.73**
Iowa	--	--	--	--	--	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--	--	--	--	--	--
Minnesota	13	633	41.18	2	763	48.93	NM	--	--	NM	653	42.36
Missouri	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	18	503	30.18	--	--	--	18	503	30.18
North Dakota	--	--	--	--	--	--	NM	--	--	NM	NM	NM
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--
South Atlantic	**7,840**	**1,173**	**76.56**	**7,956**	**1,493**	**95.66**	**NM**	**983**	**63.39**	**17,078**	**1,342**	**86.71**
Delaware	--	--	--	172	--	--	NM	--	--	194	--	--
District of Columbia	--	--	--	--	--	--	--	--	--	--	--	--
Florida	5,952	1,211	79.19	7,018	1,496	95.89	NM	962	62.13	13,374	1,362	88.07
Georgia	600	--	--	42	--	--	NM	--	--	764	--	--
Maryland	148	--	--	155	--	--	NM	1,161	73.94	307	1,161	73.94
North Carolina	182	--	--	--	--	--	NM	--	--	NM	NM	NM
South Carolina	214	--	--	21	--	--	--	--	--	235	--	--
Virginia	745	707	45.26	548	1,456	92.85	NM	--	--	1,483	1,097	70.12
West Virginia	--	--	--	--	--	--	--	--	--	--	--	--
East South Central	**95**	**--**	**--**	**196**	**871**	**57.06**	**NM**	**--**	**--**	**433**	**871**	**57.06**
Alabama	6	--	--	86	--	--	NM	--	--	149	--	--
Kentucky	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	89	--	--	110	871	57.06	--	--	--	199	871	57.06
Tennessee	--	--	--	--	--	--	NM	--	--	NM	--	--
West South Central	**43**	**799**	**52.42**	**481**	**812**	**52.91**	**NM**	**--**	**--**	**619**	**811**	**52.89**
Arkansas	--	--	--	57	639	40.37	NM	--	--	59	639	40.37
Louisiana	21	799	52.42	418	834	54.61	NM	--	--	532	833	54.51
Oklahoma	22	--	--	--	--	--	--	--	--	22	--	--
Texas	--	--	--	6	--	--	--	--	--	6	--	--
Mountain	**--**	**--**	**--**	**--**	**--**	**--**	**NM**	**--**	**--**	**NM**	**NM**	**NM**
Arizona	--	--	--	--	--	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	NM	--	--	NM	NM	NM
Nevada	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	NM	--	--	NM	NM	NM
Pacific Contiguous	**3**	**--**	**--**	**22**	**1,668**	**107.12**	**NM**	**--**	**--**	**NM**	**1,668**	**107.12**
California	--	--	--	15	1,668	107.12	--	--	--	15	1,668	107.12
Oregon	3	--	--	--	--	--	NM	--	--	NM	--	--
Washington	--	--	--	8	--	--	--	--	--	8	--	--
Pacific Noncontiguous	**9,955**	**1,713**	**107.81**	**174**	**1,463**	**86.30**	**1,537**	**1,005**	**62.24**	**11,665**	**1,617**	**101.50**
Alaska	--	--	--	174	1,463	86.30	NM	1,169	68.95	194	1,431	84.44
Hawaii	9,955	1,713	107.81	--	--	--	1,516	1,002	62.13	11,471	1,621	101.86
U.S. Total	**22,988**	**1,419**	**90.77**	**14,936**	**1,412**	**90.46**	**4,886**	**1,005**	**62.31**	**42,810**	**1,399**	**89.39**

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: • Receipts reflect data supplied by both regulated and unregulated plants. Average delivered cost of fuel reflects data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report"

Table 7.D. Receipts and Average Delivered Cost of Residual Fuel Oil by Type of Purchase, Census Division and State: Total (All Sectors), 2007

Census Division and State	Contract			Spot			Unclassified/Other			Total		
		Cost			Cost			Cost			Cost	
	Receipts (1,000 barrels)	(cents per million Btu)	($ per bbl)	Receipts (1,000 barrels)	(cents per million Btu)	($ per bbl)	Receipts (1,000 barrels)	(cents per million Btu)	($ per bbl)	Receipts (1,000 barrels)	(cents per million Btu)	($ per bbl)
New England	**1,845**	--	--	**6,383**	**854**	**55.40**	--	--	--	**8,227**	**854**	**55.40**
Connecticut	855	--	--	748	--	--	--	--	--	1,603	--	--
Maine	731	--	--	729	--	--	--	--	--	1,460	--	--
Massachusetts	259	--	--	4,581	948	60.25	--	--	--	4,840	948	60.25
New Hampshire	--	--	--	324	853	55.36	--	--	--	324	853	55.36
Rhode Island	--	--	--	--	--	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Middle Atlantic	**9,772**	**806**	**51.88**	**3,917**	**491**	**31.04**	--	--	--	**13,688**	**738**	**47.34**
New Jersey	2	900	56.63	312	464	29.48	--	--	--	314	468	29.69
New York	9,769	806	51.87	2,586	496	31.36	--	--	--	12,355	749	48.02
Pennsylvania	--	--	--	1,019	--	--	--	--	--	1,019	--	--
East North Central	--	--	--	**637**	**755**	**48.28**	--	--	--	**637**	**755**	**48.28**
Illinois	--	--	--	--	--	--	--	--	--	--	--	--
Indiana	--	--	--	61	--	--	--	--	--	61	--	--
Michigan	--	--	--	576	755	48.28	--	--	--	576	755	48.28
Ohio	--	--	--	--	--	--	--	--	--	--	--	--
Wisconsin	--	--	--	--	--	--	--	--	--	--	--	--
West North Central	--	--	--	--	--	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--
South Atlantic	**16,629**	**889**	**57.41**	**7,069**	**894**	**57.10**	--	--	--	**23,699**	**890**	**57.32**
Delaware	--	--	--	149	--	--	--	--	--	149	--	--
District of Columbia	--	--	--	--	--	--	--	--	--	--	--	--
Florida	14,404	889	57.41	4,239	945	60.41	--	--	--	18,643	901	58.07
Georgia	578	--	--	--	--	--	--	--	--	578	--	--
Maryland	338	--	--	582	--	--	--	--	--	921	--	--
North Carolina	843	--	--	--	--	--	--	--	--	843	--	--
South Carolina	182	--	--	27	--	--	--	--	--	208	--	--
Virginia	261	--	--	2,072	795	50.76	--	--	--	2,333	795	50.76
West Virginia	23	--	--	--	--	--	--	--	--	23	--	--
East South Central	**411**	**731**	**47.99**	**281**	**792**	**51.78**	--	--	--	**691**	**761**	**49.85**
Alabama	79	--	--	32	--	--	--	--	--	111	--	--
Kentucky	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	332	731	47.99	249	792	51.78	--	--	--	581	761	49.85
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--
West South Central	**204**	--	--	**87**	**814**	**53.10**	--	--	--	**291**	**814**	**53.10**
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--
Louisiana	--	--	--	87	814	53.10	--	--	--	87	814	53.10
Oklahoma	204	--	--	--	--	--	--	--	--	204	--	--
Texas	--	--	--	--	--	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	**6**	--	--	--	--	--	**6**	--	--
California	--	--	--	--	--	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--	--	--	--	--	--
Washington	--	--	--	6	--	--	--	--	--	6	--	--
Pacific Noncontiguous	**2,097**	--	--	--	--	--	--	--	--	**2,097**	--	--
Alaska	--	--	--	--	--	--	--	--	--	--	--	--
Hawaii	2,097	--	--	--	--	--	--	--	--	2,097	--	--
U.S. Total	**30,957**	**861**	**55.55**	**18,379**	**800**	**51.10**	--	--	--	**49,336**	**843**	**54.22**

Notes: • Residual fuel oil for Form EIA-423 data includes No. 5 and No. 6 fuel oils and bunker C fuel oil. Residual fuel oil for FERC Form 423 data includes No. 5 and No. 6 fuel oils, bunker C fuel oil, jet fuel, and kerosene. • Receipts reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost of fuel reflects data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 8. Receipts of Petroleum Coke to Electric Plants by Census Division and State: Total (All Sectors), 2008 and 2007

Census Division and State	2008		2007	
	Thousand Tons	Thousand Barrels Equivalent	Thousand Tons	Thousand Barrels Equivalent
New England	--	--	--	--
Connecticut	--	--	--	--
Maine	--	--	--	--
Massachusetts	--	--	--	--
New Hampshire	--	--	--	--
Rhode Island	--	--	--	--
Vermont	--	--	--	--
Middle Atlantic	**192**	**961**	**160**	**802**
New Jersey	--	--	--	--
New York	67	334	37	187
Pennsylvania	126	628	123	614
East North Central	**1,149**	**5,747**	**464**	**2,322**
Illinois	--	--	--	--
Indiana	--	--	--	--
Michigan	162	811	51	255
Ohio	519	2,597	--	--
Wisconsin	468	2,338	414	2,068
West North Central	**172**	**862**	**192**	**962**
Iowa	58	289	44	222
Kansas	55	275	81	404
Minnesota	55	273	67	336
Missouri	5	25	--	--
Nebraska	--	--	--	--
North Dakota	--	--	--	--
South Dakota	--	--	--	--
South Atlantic	**1,986**	**9,931**	**2,057**	**10,284**
Delaware	--	--	--	--
District of Columbia	--	--	--	--
Florida	1,610	8,051	1,779	8,894
Georgia	374	1,870	278	1,389
Maryland	--	--	--	--
North Carolina	--	--	--	--
South Carolina	--	--	--	--
Virginia	--	--	--	--
West Virginia	2	10	--	--
East South Central	**1,070**	**5,349**	**1,160**	**5,798**
Alabama	--	--	--	--
Kentucky	1,070	5,349	1,160	5,798
Mississippi	--	--	--	--
Tennessee	--	--	--	--
West South Central	**1,392**	**6,959**	**1,279**	**6,395**
Arkansas	--	--	--	--
Louisiana	895	4,477	854	4,270
Oklahoma	11	53	11	57
Texas	486	2,429	414	2,068
Mountain	**239**	**1,193**	**186**	**932**
Arizona	--	--	--	--
Colorado	--	--	--	--
Idaho	--	--	--	--
Montana	239	1,193	186	932
Nevada	--	--	--	--
New Mexico	--	--	--	--
Utah	--	--	--	--
Wyoming	--	--	--	--
Pacific Contiguous	**840**	**4,198**	**157**	**785**
California	840	4,198	157	785
Oregon	--	--	--	--
Washington	--	--	--	--
Pacific Noncontiguous	--	--	--	--
Alaska	--	--	--	--
Hawaii	--	--	--	--
U.S. Total	**7,040**	**35,202**	**5,656**	**28,279**

Notes: • As stated in the EIA Glossary (http://www.eia.doe.gov/cneaf/electricity/page/glossary.html), in order to convert petroleum coke to the liquid petroleum equivalent, the quantity conversion is 5 barrels (or 42 U.S. gallons per barrel) per short ton (2,000 pounds). Coke from petroleum has a heating value of 6.024 million Btu per barrel. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Totals may not equal sum of components because of independent rounding.

Sources: 2008 data source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" 2007 data sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 9. Average Delivered Cost of Petroleum Coke by Census Division and State: Total (All Sectors), 2008 and 2007

Census Division and State	2008		2007		Percent Change 2007-2008 (cents per million Btu)	Percent Change 2007-2008 (dollars per ton)
	(cents per million Btu)	(dollars per ton)	(cents per million Btu)	(dollars per ton)		
New England	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--
Maine	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--
Vermont	--	--	--	--	--	--
Middle Atlantic	**201**	**53.55**	**W**	**W**	**W**	**W**
New Jersey	--	--	--	--	--	--
New York	W	W	W	W	W	W
Pennsylvania	W	W	W	W	W	W
East North Central	**W**	**W**	**W**	**W**	**W**	**W**
Illinois	--	--	--	--	--	--
Indiana	--	--	--	--	--	--
Michigan	W	W	W	W	W	W
Ohio	W	W	--	--	--	--
Wisconsin	W	W	W	W	W	W
West North Central	**W**	**W**	**141**	**39.71**	**W**	**W**
Iowa	W	W	194	54.88	W	W
Kansas	157	44.77	141	40.51	11.15	10.52
Minnesota	114	31.61	104	28.73	9.51	10.02
Missouri	146	41.46	--	--	--	--
Nebraska	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--
South Atlantic	**W**	**W**	**W**	**W**	**W**	**W**
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	216	61.33	188	53.40	15.15	14.85
Georgia	W	W	W	W	W	W
Maryland	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--
Virginia	--	--	--	--	--	--
West Virginia	W	W	--	--	--	--
East South Central	**W**	**W**	**W**	**W**	**W**	**W**
Alabama	--	--	--	--	--	--
Kentucky	W	W	W	W	W	W
Mississippi	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--
West South Central	**289**	**83.50**	**W**	**W**	**W**	**W**
Arkansas	--	--	--	--	--	--
Louisiana	W	W	W	W	W	W
Oklahoma	W	W	W	W	W	W
Texas	W	W	W	W	W	W
Mountain	**W**	**W**	**W**	**W**	**W**	**W**
Arizona	--	--	--	--	--	--
Colorado	--	--	--	--	--	--
Idaho	--	--	--	--	--	--
Montana	W	W	W	W	W	W
Nevada	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--
Utah	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--
Pacific Contiguous	**W**	**W**	**W**	**W**	**W**	**W**
California	W	W	W	W	W	W
Oregon	--	--	--	--	--	--
Washington	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--
Alaska	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--
U.S. Total	**211**	**59.72**	**151**	**43.02**	**39.38**	**38.82**

W = Withheld to avoid disclosure of individual company data.

Notes: • Totals may not equal sum of components because of independent rounding. • Monetary values are expressed in nominal terms.

Sources: 2008 data source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" 2007 data sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 10.A. Receipts and Average Delivered Cost of Petroleum Coke by Type of Purchase, Census Division and State: Total (All Sectors), 2008

Census Division and State	Contract			Spot			Unclassified/Other			Total		
	Receipts (1,000 tons)	Cost (cents per million Btu)	Cost ($ per ton)	Receipts (1,000 tons)	Cost (cents per million Btu)	Cost ($ per ton)	Receipts (1,000 tons)	Cost (cents per million Btu)	Cost ($ per ton)	Receipts (1,000 tons)	Cost (cents per million Btu)	Cost ($ per ton)
New England	--	--	--	--	--	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Middle Atlantic	**157**	--	--	**12**	--	--	**NM**	--	--	**192**	**201**	**53.55**
New Jersey	--	--	--	--	--	--	--	--	--	--	--	--
New York	55	--	--	12	--	--	--	--	--	67	W	W
Pennsylvania	102	--	--	--	--	--	NM	--	--	126	W	W
East North Central	**528**	**154**	**43.82**	**237**	**145**	**40.78**	**385**	**209**	**59.09**	**1,149**	**W**	**W**
Illinois	--	--	--	--	--	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	11	200	55.97	36	--	--	115	--	--	162	W	W
Ohio	283	--	--	--	--	--	236	--	--	519	W	W
Wisconsin	233	148	42.17	200	145	40.78	34	209	59.09	468	W	W
West North Central	**151**	**156**	**43.54**	**7**	**163**	**46.66**	**14**	--	--	**172**	**W**	**W**
Iowa	42	210	57.43	2	199	57.96	14	--	--	58	W	W
Kansas	55	157	44.77	--	--	--	--	--	--	55	157	44.77
Minnesota	55	114	31.61	--	--	--	--	--	--	55	114	31.61
Missouri	--	--	--	5	146	41.46	--	--	--	5	146	41.46
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--
South Atlantic	**1,274**	**235**	**66.55**	**712**	**168**	**47.66**	--	--	--	**1,986**	**W**	**W**
Delaware	--	--	--	--	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--	--	--	--	--
Florida	1,165	235	66.55	445	168	47.66	--	--	--	1,610	216	61.33
Georgia	109	--	--	265	--	--	--	--	--	374	W	W
Maryland	--	--	--	--	--	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	--	--	--	2	--	--	--	--	--	2	W	W
East South Central	**1,070**	--	--	--	--	--	--	--	--	**1,070**	**W**	**W**
Alabama	--	--	--	--	--	--	--	--	--	--	--	--
Kentucky	1,070	--	--	--	--	--	--	--	--	1,070	W	W
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--
West South Central	**1,261**	**239**	**69.35**	**25**	**272**	**76.13**	**105**	--	--	**1,392**	**289**	**83.50**
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--
Louisiana	796	239	69.35	25	272	76.13	74	--	--	895	W	W
Oklahoma	11	--	--	--	--	--	--	--	--	11	W	W
Texas	454	--	--	--	--	--	NM	--	--	486	W	W
Mountain	**228**	--	--	**11**	--	--	--	--	--	**239**	**W**	**W**
Arizona	--	--	--	--	--	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--	--	--	--	--
Montana	228	--	--	11	--	--	--	--	--	239	W	W
Nevada	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--	--	--	--	--	--
Pacific Contiguous	**91**	--	--	*	--	--	**748**	--	--	**840**	**W**	**W**
California	91	--	--	*	--	--	748	--	--	840	W	W
Oregon	--	--	--	--	--	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	**4,760**	**228**	**64.98**	**1,005**	**161**	**45.59**	**1,275**	**209**	**59.09**	**7,040**	**211**	**59.72**

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as "*.")

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes: • Receipts and total average delivered cost reflect data supplied by both regulated and unregulated plants. Average delivered cost for contract, spot, and unclassified/other purchase types reflect data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report"

Table 10.B. Receipts and Average Delivered Cost of Petroleum Coke by Type of Purchase, Census Division and State: Total (All Sectors), 2007

Census Division and State	Contract			Spot			Unclassified/Other			Total		
	Receipts (1,000 tons)	Cost (cents per million Btu)	Cost ($ per ton)	Receipts (1,000 tons)	Cost (cents per million Btu)	Cost ($ per ton)	Receipts (1,000 tons)	Cost (cents per million Btu)	Cost ($ per ton)	Receipts (1,000 tons)	Cost (cents per million Btu)	Cost ($ per ton)
New England	--	--	--	--	--	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Middle Atlantic	**160**	--	--	--	--	--	--	--	--	**160**	**W**	**W**
New Jersey	--	--	--	--	--	--	--	--	--	--	--	--
New York	37	--	--	--	--	--	--	--	--	37	W	W
Pennsylvania	123	--	--	--	--	--	--	--	--	123	W	W
East North Central	**240**	**135**	**38.42**	**224**	**135**	**37.76**	--	--	--	**464**	**W**	**W**
Illinois	--	--	--	--	--	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	--	--	--	51	178	49.97	--	--	--	51	W	W
Ohio	--	--	--	--	--	--	--	--	--	--	--	--
Wisconsin	240	135	38.42	173	132	36.98	--	--	--	414	W	W
West North Central	**91**	**128**	**35.49**	**102**	**152**	**43.49**	--	--	--	**192**	**141**	**39.71**
Iowa	24	194	54.71	21	195	55.08	--	--	--	44	194	54.88
Kansas	--	--	--	81	141	40.51	--	--	--	81	141	40.51
Minnesota	67	104	28.73	--	--	--	--	--	--	67	104	28.73
Missouri	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--
South Atlantic	**81**	--	--	**1,976**	**188**	**53.40**	--	--	--	**2,057**	**W**	**W**
Delaware	--	--	--	--	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--	--	--	--	--
Florida	--	--	--	1,779	188	53.40	--	--	--	1,779	188	53.40
Georgia	81	--	--	197	--	--	--	--	--	278	W	W
Maryland	--	--	--	--	--	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--	--	--	--	--	--
East South Central	**1,160**	--	--	--	--	--	--	--	--	**1,160**	**W**	**W**
Alabama	--	--	--	--	--	--	--	--	--	--	--	--
Kentucky	1,160	--	--	--	--	--	--	--	--	1,160	W	W
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--
West South Central	**1,265**	**160**	**47.09**	--	--	--	**14**	--	--	**1,279**	**W**	**W**
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--
Louisiana	840	160	47.09	--	--	--	14	--	--	854	W	W
Oklahoma	11	--	--	--	--	--	--	--	--	11	W	W
Texas	414	--	--	--	--	--	--	--	--	414	W	W
Mountain	**134**	--	--	**53**	--	--	--	--	--	**186**	**W**	**W**
Arizona	--	--	--	--	--	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--	--	--	--	--
Montana	134	--	--	53	--	--	--	--	--	186	W	W
Nevada	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--	--	--	--	--	--
Pacific Contiguous	**116**	--	--	**41**	--	--	--	--	--	**157**	**W**	**W**
California	116	--	--	41	--	--	--	--	--	157	W	W
Oregon	--	--	--	--	--	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	**3,247**	**155**	**45.09**	**2,395**	**181**	**51.51**	**14**	--	--	**5,656**	**151**	**43.02**

W = Withheld to avoid disclosure of individual company data.

Notes: • Receipts and total average delivered cost of fuel reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost for contract, spot, and unclassified/other purchase types reflect data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 11.A. Receipts and Average Delivered Cost of Petroleum Liquids and Petroleum Coke by Type, Census Division and State: Total (All Sectors), 2008

Census Division and State	Distillate Fuel Oil[1]			Residual Fuel Oil[2]			Total Petroleum liquids[3]			Petroleum Coke		
	Receipts (1,000 barrels)	Heat Value (Btu per gallon)	Cost (cents per million Btu)	Receipts (1,000 barrels)	Heat Value (Btu per gallon)	Cost (cents per million Btu)	Receipts (1,000 barrels)	Heat Value (Btu per gallon)	Cost (cents per million Btu)	Receipts (1,000 tons)	Heat Value (Btu per pound)	Cost (cents per million Btu)
New England	**421**	**138,352**	**1,677**	**6,353**	**150,776**	**968**	**7,014**	**149,481**	**1,294**	**--**	**--**	**--**
Connecticut	72	137,664	2,242	582	150,819	--	686	148,602	1,744	--	--	--
Maine	28	140,202	1,991	1,730	151,093	--	1,929	149,510	1,081	--	--	--
Massachusetts	215	138,371	1,444	3,470	150,188	980	3,714	149,390	1,347	--	--	--
New Hampshire	36	138,079	2,143	546	153,443	967	585	152,379	1,069	--	--	--
Rhode Island	65	138,440	2,027	NM	NM	NM	88	141,786	1,649	--	--	--
Vermont	NM	NM	2,116	NM	NM	NM	NM	NM	1,999	--	--	--
Middle Atlantic	**2,176**	**139,290**	**2,438**	**5,990**	**151,488**	**1,227**	**8,595**	**147,133**	**1,463**	**192**	**13,335**	**201**
New Jersey	185	139,395	2,038	417	150,310	1,158	817	138,217	1,547	--	--	--
New York	1,041	140,183	2,453	4,744	151,467	1,234	5,976	149,140	W	67	14,210	W
Pennsylvania	950	138,290	2,030	830	152,202	--	1,802	144,519	W	126	12,871	W
East North Central	**1,792**	**137,831**	**2,233**	**511**	**152,766**	**1,059**	**2,320**	**141,133**	**W**	**1,149**	**14,085**	**W**
Illinois	271	137,321	2,331	--	--	--	271	137,310	2,432	--	--	--
Indiana	312	137,614	2,229	60	149,524	--	372	139,538	2,002	--	--	--
Michigan	491	138,055	2,438	227	155,262	1,059	734	143,405	W	162	14,061	W
Ohio	570	137,833	2,065	--	--	--	570	137,833	W	519	14,054	W
Wisconsin	148	138,471	2,120	224	151,114	--	372	146,093	W	468	14,127	W
West North Central	**835**	**137,702**	**2,174**	**NM**	**NM**	**574**	**1,000**	**138,610**	**W**	**172**	**13,966**	**W**
Iowa	186	137,307	2,219	--	--	--	186	137,300	W	58	13,711	W
Kansas	100	137,614	2,220	--	--	--	100	137,614	2,220	55	14,297	157
Minnesota	169	136,752	2,155	NM	NM	653	234	141,181	W	55	13,882	114
Missouri	154	137,869	2,102	--	--	--	155	137,733	W	5	14,170	146
Nebraska	70	138,548	2,120	18	142,857	503	88	139,452	1,772	--	--	--
North Dakota	87	139,110	2,372	NM	NM	NM	168	137,595	W	--	--	--
South Dakota	69	138,214	1,979	--	--	--	69	138,214	W	--	--	--
South Atlantic	**3,975**	**138,366**	**2,012**	**17,078**	**153,217**	**1,342**	**21,267**	**150,256**	**W**	**1,986**	**14,144**	**W**
Delaware	263	138,014	2,026	194	151,610	--	457	143,781	1,811	--	--	--
District of Columbia	166	138,700	--	--	--	--	166	138,700	W	--	--	--
Florida	852	139,107	2,176	13,374	153,812	1,362	14,234	152,900	1,396	1,610	14,175	216
Georgia	624	138,248	1,622	764	148,624	--	1,388	143,950	W	374	14,041	W
Maryland	548	138,169	2,032	307	151,819	1,161	869	142,967	1,721	--	--	--
North Carolina	463	138,252	1,976	NM	NM	NM	NM	NM	NM	--	--	--
South Carolina	194	138,005	1,820	235	149,771	--	571	143,710	W	--	--	--
Virginia	613	137,505	2,137	1,483	151,969	1,097	2,133	147,390	1,380	--	--	--
West Virginia	253	139,305	2,193	--	--	--	264	137,543	W	2	8,865	W
East South Central	**1,096**	**136,753**	**1,776**	**433**	**153,199**	**871**	**1,668**	**140,105**	**W**	**1,070**	**14,054**	**W**
Alabama	371	136,383	1,813	149	154,807	--	589	140,050	1,672	--	--	--
Kentucky	290	138,969	2,145	--	--	--	290	138,969	W	1,070	14,054	W
Mississippi	54	138,590	2,029	199	152,876	871	253	149,826	W	--	--	--
Tennessee	382	135,169	1,518	NM	NM	--	536	136,198	W	--	--	--
West South Central	**293**	**139,370**	**1,715**	**619**	**154,835**	**811**	**997**	**147,981**	**1,151**	**1,392**	**14,457**	**289**
Arkansas	53	138,952	1,641	59	150,483	639	147	140,843	W	--	--	--
Louisiana	91	142,543	1,572	532	155,800	833	634	153,379	W	895	14,501	W
Oklahoma	13	140,940	1,555	22	148,000	--	35	145,326	W	11	15,250	W
Texas	136	137,257	2,101	6	138,095	--	180	135,319	W	486	14,357	W
Mountain	**496**	**137,514**	**2,221**	**NM**	**NM**	**NM**	**542**	**134,628**	**W**	**239**	**14,459**	**W**
Arizona	109	138,424	2,050	--	--	--	109	138,424	W	--	--	--
Colorado	58	134,857	2,167	--	--	--	68	128,767	W	--	--	--
Idaho	NM	NM	NM	--	--	--	NM	NM	NM	--	--	--
Montana	38	141,212	2,063	NM	NM	NM	65	120,660	W	239	14,459	W
Nevada	31	138,938	2,360	--	--	--	31	138,938	W	--	--	--
New Mexico	103	134,186	2,353	--	--	--	103	134,186	W	--	--	--
Utah	82	138,979	2,217	--	--	--	82	138,979	2,217	--	--	--
Wyoming	76	138,740	2,263	NM	NM	NM	84	139,926	W	--	--	--
Pacific Contiguous	**245**	**138,926**	**2,198**	**NM**	**NM**	**1,668**	**699**	**130,924**	**W**	**840**	**14,289**	**W**
California	182	138,417	2,258	15	152,900	1,668	363	123,255	W	840	14,289	W
Oregon	14	138,095	976	NM	NM	--	NM	NM	W	--	--	--
Washington	48	141,105	2,757	8	157,143	--	307	139,040	W	--	--	--
Pacific Noncontiguous	**3,077**	**136,596**	**2,315**	**11,665**	**147,692**	**1,617**	**17,038**	**142,311**	**1,788**	**--**	**--**	**--**
Alaska	743	133,552	2,412	194	140,476	1,431	1,659	128,050	W	--	--	--
Hawaii	2,335	137,564	2,286	11,471	147,814	1,621	15,378	143,850	W	--	--	--
U.S. Total	**14,406**	**137,900**	**2,153**	**42,810**	**151,117**	**1,399**	**61,139**	**146,305**	**1,552**	**7,040**	**14,184**	**211**

[1] Distillate fuel oil includes all diesel, No. 1, No. 2, and No. 4 fuel oils.
[2] Residual fuel oil includes No. 5 and No. 6 fuel oils and bunker C fuel oil.
[3] Also includes jet fuel, kerosene, and waste oil.

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes: • Receipts, heat value, and total average delivered cost reflect data supplied by both regulated and unregulated plants. Average delivered cost for distillate and residual fuel oil reflect data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 11.B. Receipts and Average Delivered Cost of Petroleum Liquids and Petroleum Coke by Type, Census Division and State: Total (All Sectors), 2007

Census Division and State	Distillate Fuel Oil[1]			Residual Fuel Oil[2]			Total Petroleum liquids[3]			Petroleum Coke		
	Receipts (1,000 barrels)	Heat Value (Btu per gallon)	Cost (cents per million Btu)	Receipts (1,000 barrels)	Heat Value (Btu per gallon)	Cost (cents per million Btu)	Receipts (1,000 barrels)	Heat Value (Btu per gallon)	Cost (cents per million Btu)	Receipts (1,000 tons)	Heat Value (Btu per pound)	Cost (cents per million Btu)
New England	**219**	**138,744**	**1,577**	**8,227**	**150,872**	**854**	**8,561**	**150,347**	**919**	**--**	**--**	**--**
Connecticut	77	138,960	--	1,603	148,712	--	1,722	147,962	971	--	--	--
Maine	13	135,133	--	1,460	151,410	--	1,536	150,571	W	--	--	--
Massachusetts	76	139,060	1,591	4,840	151,186	948	4,926	150,964	W	--	--	--
New Hampshire	48	138,900	1,576	324	154,462	853	372	152,450	W	--	--	--
Rhode Island	5	138,571	--	--	--	--	5	138,571	W	--	--	--
Vermont	--	--	--	--	--	--	--	--	--	--	--	--
Middle Atlantic	**1,303**	**138,055**	**1,277**	**13,688**	**151,892**	**738**	**15,676**	**149,684**	**W**	**160**	**13,274**	**W**
New Jersey	198	136,843	1,631	314	151,157	468	870	136,271	1,147	--	--	--
New York	361	137,724	1,263	12,355	152,048	749	13,030	151,226	W	37	14,458	W
Pennsylvania	744	138,538	--	1,019	150,236	--	1,775	144,936	W	123	12,912	W
East North Central	**1,439**	**137,981**	**1,618**	**637**	**152,733**	**755**	**2,075**	**142,506**	**W**	**464**	**14,123**	**W**
Illinois	286	137,319	1,830	--	--	--	286	137,319	1,744	--	--	--
Indiana	228	137,881	1,529	61	150,790	--	288	140,607	W	--	--	--
Michigan	266	138,105	1,641	576	152,938	755	842	148,248	W	51	14,005	W
Ohio	575	138,026	1,616	--	--	--	575	138,026	W	--	--	--
Wisconsin	84	139,814	1,652	--	--	--	84	139,814	1,646	414	14,138	W
West North Central	**362**	**137,716**	**1,701**	**--**	**--**	**--**	**362**	**137,716**	**1,675**	**192**	**14,122**	**141**
Iowa	78	137,576	1,745	--	--	--	78	137,576	1,745	44	14,112	194
Kansas	61	137,457	1,661	--	--	--	61	137,457	1,661	81	14,380	141
Minnesota	99	137,393	1,587	--	--	--	99	137,393	1,553	67	13,820	104
Missouri	64	137,476	1,713	--	--	--	64	137,476	1,713	--	--	--
Nebraska	12	138,007	1,669	--	--	--	12	138,007	1,669	--	--	--
North Dakota	48	139,186	1,783	--	--	--	48	139,186	1,783	--	--	--
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--
South Atlantic	**4,011**	**138,949**	**1,522**	**23,699**	**152,905**	**890**	**27,760**	**150,860**	**W**	**2,057**	**14,252**	**W**
Delaware	217	138,348	--	149	152,510	--	366	144,114	1,304	--	--	--
District of Columbia	198	139,371	--	--	--	--	198	139,371	W	--	--	--
Florida	779	138,067	1,577	18,643	153,350	901	19,422	152,736	925	1,779	14,213	188
Georgia	158	138,314	1,582	578	150,476	--	736	147,857	W	278	14,502	W
Maryland	672	138,479	--	921	150,955	--	1,607	145,614	1,060	--	--	--
North Carolina	366	137,976	1,491	843	150,369	--	1,209	146,617	W	--	--	--
South Carolina	213	138,064	1,587	208	150,169	--	458	143,581	W	--	--	--
Virginia	817	137,681	1,358	2,333	151,936	795	3,151	148,238	922	--	--	--
West Virginia	590	143,576	1,564	23	150,000	--	613	143,817	W	--	--	--
East South Central	**448**	**137,530**	**1,563**	**691**	**154,483**	**761**	**1,139**	**147,818**	**W**	**1,160**	**14,070**	**W**
Alabama	135	137,355	1,413	111	150,910	--	246	143,452	W	--	--	--
Kentucky	179	139,121	1,627	--	--	--	179	139,121	W	1,160	14,070	W
Mississippi	16	139,638	1,443	581	155,164	761	597	154,738	W	--	--	--
Tennessee	117	135,000	1,611	--	--	--	117	135,000	1,611	--	--	--
West South Central	**301**	**138,785**	**1,522**	**291**	**150,259**	**814**	**592**	**144,426**	**W**	**1,279**	**14,521**	**W**
Arkansas	50	140,424	1,479	--	--	--	50	140,424	1,479	--	--	--
Louisiana	51	139,695	1,430	87	155,310	814	138	149,579	W	854	14,593	W
Oklahoma	16	138,438	1,639	204	148,095	--	220	147,398	W	11	15,250	W
Texas	184	138,117	1,635	--	--	--	184	138,117	W	414	14,353	W
Mountain	**303**	**139,261**	**1,772**	**--**	**--**	**--**	**318**	**136,992**	**W**	**186**	**14,493**	**W**
Arizona	78	140,914	1,671	--	--	--	78	140,914	1,671	--	--	--
Colorado	20	141,864	1,845	--	--	--	20	141,864	W	--	--	--
Idaho	--	--	--	--	--	--	--	--	--	--	--	--
Montana	16	140,986	--	--	--	--	31	116,762	W	186	14,493	W
Nevada	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	70	136,026	1,897	--	--	--	70	136,026	W	--	--	--
Utah	48	139,376	1,753	--	--	--	48	139,376	1,753	--	--	--
Wyoming	72	139,448	1,772	--	--	--	72	139,448	1,772	--	--	--
Pacific Contiguous	**54**	**138,979**	**1,619**	**6**	**157,143**	**--**	**797**	**118,232**	**W**	**157**	**14,263**	**W**
California	49	138,571	--	--	--	--	583	110,721	W	157	14,263	W
Oregon	5	143,000	1,619	--	--	--	5	143,000	1,619	--	--	--
Washington	--	--	--	6	157,143	--	209	138,598	W	--	--	--
Pacific Noncontiguous	**13**	**131,824**	**--**	**2,097**	**140,486**	**--**	**2,787**	**134,890**	**W**	**--**	**--**	**--**
Alaska	--	--	--	--	--	--	--	--	--	--	--	--
Hawaii	13	131,824	--	2,097	140,486	--	2,787	134,890	W	--	--	--
U.S. Total	**8,452**	**138,507**	**1,579**	**49,336**	**151,762**	**843**	**60,068**	**148,745**	**959**	**5,656**	**14,241**	**151**

[1] Distillate fuel oil includes all diesel, No. 1, No. 2, and No. 4 fuel oils.
[2] Residual fuel oil includes No. 5 and No. 6 fuel oils and bunker C fuel oil.
[3] Also includes jet fuel, kerosene, and waste oil.
W = Withheld to avoid disclosure of individual company data.

Notes: • Receipts, heat value, and total average delivered cost of fuel reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost for distillate and residual fuel oil reflect data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 12. Receipts of Natural Gas to Electric Plants by Census Division and State: Total (All Sectors), 2008 and 2007
(Thousand Mcf)

Census Division and State	2008	2007
New England	**394,730**	**423,067**
Connecticut	65,187	72,612
Maine	59,901	53,922
Massachusetts	165,924	183,232
New Hampshire	49,195	38,563
Rhode Island	54,484	74,711
Vermont	38	27
Middle Atlantic	**752,014**	**726,388**
New Jersey	186,281	161,040
New York	413,327	406,218
Pennsylvania	152,405	159,130
East North Central	**275,521**	**300,726**
Illinois	49,742	68,786
Indiana	52,012	41,496
Michigan	99,021	115,910
Ohio	25,605	29,713
Wisconsin	49,141	44,821
West North Central	**134,928**	**71,146**
Iowa	21,458	2,412
Kansas	26,780	21,656
Minnesota	33,968	21,318
Missouri	42,888	24,893
Nebraska	7,266	866
North Dakota	NM	1
South Dakota	2,568	--
South Atlantic	**1,128,275**	**1,036,766**
Delaware	12,981	20,029
District of Columbia	--	--
Florida	816,252	739,298
Georgia	107,306	109,693
Maryland	23,742	18,706
North Carolina	36,793	26,822
South Carolina	46,973	35,574
Virginia	81,380	82,609
West Virginia	2,849	4,035
East South Central	**392,067**	**350,974**
Alabama	178,936	183,271
Kentucky	13,629	3,620
Mississippi	193,463	163,144
Tennessee	6,038	939
West South Central	**2,757,580**	**2,639,198**
Arkansas	73,848	54,330
Louisiana	487,810	468,019
Oklahoma	290,446	283,888
Texas	1,905,476	1,832,961
Mountain	**734,036**	**648,639**
Arizona	284,700	269,059
Colorado	108,215	118,608
Idaho	14,069	10,093
Montana	1,423	759
Nevada	184,246	169,443
New Mexico	72,539	35,618
Utah	58,101	40,329
Wyoming	10,744	4,728
Pacific Contiguous	**1,264,618**	**968,022**
California	1,060,611	814,263
Oregon	126,636	109,476
Washington	77,371	44,283
Pacific Noncontiguous	**45,278**	**35,391**
Alaska	45,278	35,391
Hawaii	--	--
U.S. Total	**7,879,046**	**7,200,316**

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: • Natural gas, including small amount of supplemental gaseous fuels that cannot be identified separately. Natural gas values do not include blast furnace gas or other gas. • Totals may not equal sum of components because of independent rounding. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Mcf = thousand cubic feet.

Sources: 2008 data source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" 2007 data sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 13. Average Delivered Cost of Natural Gas by Census Division and State: Total (All Sectors), 2008 and 2007

Census Division and State	2008		2007		Percent Change 2007-2008 (cents per million Btu)	Percent Change 2007-2008 (dollars per Mcf)
	(cents per million Btu)	(dollars per Mcf)	(cents per million Btu)	(dollars per Mcf)		
New England	**1,012**	**10.46**	**780**	**8.08**	**29.64**	**29.45**
Connecticut	1,033	10.46	773	7.81	33.75	33.93
Maine	1,006	10.60	W	W	W	W
Massachusetts	1,014	10.49	789	8.17	28.55	28.40
New Hampshire	W	W	W	W	W	W
Rhode Island	W	W	781	8.06	W	W
Vermont	909	9.14	761	7.72	19.42	18.39
Middle Atlantic	**1,047**	**10.73**	**790**	**8.10**	**32.55**	**32.47**
New Jersey	1,041	10.74	789	8.16	31.93	31.62
New York	1,062	10.82	795	8.09	33.61	33.75
Pennsylvania	1,016	10.48	780	8.07	30.33	29.86
East North Central	**919**	**9.34**	**705**	**7.19**	**30.42**	**29.95**
Illinois	967	9.78	708	7.22	36.51	35.46
Indiana	948	9.62	752	7.71	26.05	24.77
Michigan	861	8.73	656	6.65	31.23	31.28
Ohio	1,035	10.72	764	7.89	35.61	35.87
Wisconsin	895	9.10	741	7.57	20.88	20.21
West North Central	**W**	**W**	**678**	**6.92**	**W**	**W**
Iowa	W	W	765	7.73	W	W
Kansas	W	W	619	6.31	W	W
Minnesota	891	9.03	W	W	W	W
Missouri	W	W	W	W	W	W
Nebraska	W	W	899	8.97	W	W
North Dakota	NM	NM	599	6.41	NM	NM
South Dakota	724	7.32	--	--	--	--
South Atlantic	**1,014**	**10.44**	**870**	**8.98**	**16.57**	**16.36**
Delaware	W	W	W	W	W	W
District of Columbia	--	--	--	--	--	--
Florida	1,010	10.38	907	9.33	11.30	11.25
Georgia	996	10.31	727	7.56	37.06	36.38
Maryland	1,051	11.03	757	7.89	38.80	39.80
North Carolina	W	W	W	W	W	W
South Carolina	1,017	10.48	792	8.16	28.51	28.43
Virginia	1,043	10.80	816	8.44	27.79	27.96
West Virginia	1,048	10.77	802	8.28	30.68	30.07
East South Central	**962**	**9.85**	**710**	**7.32**	**35.56**	**34.57**
Alabama	973	10.00	700	7.21	39.04	38.70
Kentucky	W	W	W	W	W	W
Mississippi	942	9.61	720	7.43	30.93	29.34
Tennessee	W	W	W	W	W	W
West South Central	**880**	**9.03**	**673**	**6.91**	**30.71**	**30.75**
Arkansas	890	9.18	686	7.04	29.72	30.40
Louisiana	945	9.78	720	7.44	31.31	31.45
Oklahoma	793	8.18	650	6.68	22.00	22.46
Texas	876	8.96	664	6.80	31.85	31.76
Mountain	**778**	**8.01**	**588**	**6.05**	**32.20**	**32.45**
Arizona	837	8.60	670	6.84	25.09	25.73
Colorado	678	7.02	424	4.35	59.80	61.38
Idaho	W	W	W	W	W	W
Montana	W	W	W	W	W	W
Nevada	797	8.28	605	6.31	31.76	31.22
New Mexico	802	8.20	W	W	W	W
Utah	W	W	W	W	W	W
Wyoming	423	4.17	W	W	W	W
Pacific Contiguous	**799**	**8.20**	**651**	**6.67**	**22.71**	**22.83**
California	808	8.29	659	6.76	22.52	22.63
Oregon	705	7.20	607	6.20	16.29	16.13
Washington	833	8.57	612	6.27	36.02	36.68
Pacific Noncontiguous	**W**	**W**	**358**	**3.58**	**W**	**W**
Alaska	W	W	358	3.58	W	W
Hawaii	--	--	--	--	--	--
U.S. Total	**902**	**9.26**	**711**	**7.30**	**26.84**	**26.85**

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes: • Natural gas, including small amount of supplemental gaseous fuels that cannot be identified separately. Natural gas values do not include blast furnace gas or other gas. • Totals may not equal sum of components because of independent rounding. • Mcf = thousand cubic feet. • Monetary values are expressed in nominal terms.

Sources: 2008 data source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" 2007 data sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 14.A. Receipts and Average Delivered Cost of Natural Gas by Type of Purchase, Census Division and State: Total (All Sectors), 2008

Census Division and State	Firm			Interruptible			Spot		
	Receipts (1,000 Mcf)	Cost (cents per million Btu)	Cost ($ per Mcf)	Receipts (1,000 Mcf)	Cost (cents per million Btu)	Cost ($ per Mcf)	Receipts (1,000 Mcf)	Cost (cents per million Btu)	Cost ($ per Mcf)
New England	**100,396**	**--**	**--**	**33,969**	**1,261**	**12.92**	**246,260**	**1,283**	**13.28**
Connecticut	16,181	--	--	4,014	2,080	21.41	39,111	--	--
Maine	13,697	--	--	18,387	--	--	27,625	--	--
Massachusetts	3,860	--	--	9,573	1,243	12.74	146,574	1,300	13.41
New Hampshire	46,747	--	--	1,957	--	--	73	1,181	12.52
Rhode Island	19,911	--	--	--	--	--	32,877	--	--
Vermont	--	--	--	38	909	9.14	--	--	--
Middle Atlantic	**222,163**	**1,024**	**10.47**	**113,639**	**1,202**	**12.14**	**389,878**	**1,031**	**10.55**
New Jersey	35,237	--	--	38,329	1,106	11.40	103,547	--	--
New York	163,338	1,024	10.47	45,369	1,202	12.14	190,599	1,031	10.55
Pennsylvania	23,588	--	--	29,940	--	--	95,733	--	--
East North Central	**112,202**	**1,047**	**10.70**	**14,422**	**941**	**9.50**	**119,133**	**1,011**	**10.25**
Illinois	20,005	1,351	13.61	3,871	840	8.60	23,306	954	9.60
Indiana	17,701	1,012	10.40	229	1,101	11.27	29,298	1,071	10.91
Michigan	57,527	1,084	10.98	4,716	1,031	10.31	26,123	1,065	10.68
Ohio	2,896	1,031	10.59	--	--	--	17,312	1,112	11.49
Wisconsin	14,073	730	7.32	5,606	960	9.60	23,094	982	9.97
West North Central	**24,766**	**822**	**8.29**	**21,842**	**838**	**8.44**	**78,388**	**843**	**8.59**
Iowa	167	1,261	12.78	6,362	953	9.64	14,633	900	9.10
Kansas	1,422	915	9.24	8,304	785	7.86	16,697	793	8.11
Minnesota	8,977	905	9.14	3,731	878	8.82	15,555	992	10.10
Missouri	10,626	782	7.91	515	778	7.87	28,657	739	7.55
Nebraska	3,574	855	8.55	2,096	924	9.41	1,394	939	9.47
North Dakota	--	--	--	*	1,174	12.68	--	--	--
South Dakota	--	--	--	833	119	1.21	1,452	1,050	10.63
South Atlantic	**742,393**	**1,035**	**10.65**	**13,915**	**963**	**9.91**	**339,638**	**1,018**	**10.49**
Delaware	1,582	--	--	213	--	--	10,980	--	--
District of Columbia	--	--	--	--	--	--	--	--	--
Florida	623,631	1,034	10.63	3,623	967	9.81	173,975	1,015	10.42
Georgia	46,469	1,085	11.20	6,766	--	--	50,442	899	9.39
Maryland	6,628	--	--	1,276	--	--	8,113	--	--
North Carolina	4,162	1,250	12.88	--	--	--	31,922	1,083	11.16
South Carolina	35,187	1,006	10.36	1,253	956	9.84	10,503	1,069	11.03
Virginia	23,681	--	--	605	--	--	52,998	1,066	11.03
West Virginia	1,051	--	--	179	1,148	11.50	706	968	9.96
East South Central	**169,390**	**987**	**10.02**	**28,282**	**1,008**	**10.35**	**176,166**	**901**	**9.26**
Alabama	104,060	1,011	10.42	6,444	--	--	60,074	748	7.72
Kentucky	2,996	1,328	13.61	4,964	1,008	10.35	1,734	1,080	11.12
Mississippi	62,036	949	9.49	16,853	--	--	110,628	946	9.71
Tennessee	298	--	--	22	--	--	3,728	982	10.10
West South Central	**1,264,845**	**874**	**9.02**	**62,076**	**744**	**7.59**	**1,342,672**	**884**	**9.07**
Arkansas	11,098	--	--	--	--	--	53,700	1,100	11.21
Louisiana	266,209	1,094	11.29	8,340	1,350	14.03	198,777	979	10.09
Oklahoma	165,364	836	8.67	115	691	6.93	123,308	784	8.06
Texas	822,174	845	8.61	53,620	744	7.59	966,888	870	8.90
Mountain	**183,296**	**859**	**8.85**	**8,660**	**611**	**6.34**	**524,808**	**776**	**8.01**
Arizona	94,414	882	9.08	271	--	--	189,123	844	8.67
Colorado	52,656	937	9.38	4,876	980	10.04	48,274	672	6.69
Idaho	9,406	--	--	--	--	--	2,473	818	8.19
Montana	1	1,077	11.45	494	930	9.45	16	--	--
Nevada	10,504	--	--	--	--	--	173,741	801	8.33
New Mexico	15,015	533	5.59	154	842	8.67	55,301	850	8.74
Utah	--	--	--	2,865	529	5.50	50,473	636	6.67
Wyoming	1,299	677	6.51	--	--	--	5,407	836	8.47
Pacific Contiguous	**484,699**	**780**	**7.94**	**72,762**	**841**	**8.76**	**547,073**	**788**	**8.04**
California	404,973	796	8.07	68,319	841	8.76	431,128	783	7.98
Oregon	60,697	--	--	3,966	--	--	60,638	759	7.75
Washington	19,028	717	7.38	477	--	--	55,307	893	9.21
Pacific Noncontiguous	**40,146**	**427**	**4.30**	**--**	**--**	**--**	**--**	**--**	**--**
Alaska	40,146	427	4.30	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--	--	--
U.S. Total	**3,344,294**	**967**	**9.92**	**369,567**	**1,017**	**10.32**	**3,764,016**	**874**	**8.97**

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as "*.")

Notes: • Natural gas, including a small amount of supplemental gaseous fuels that cannot be identified separately. Natural gas values do not include blast furnace gas or other gas. • Receipts and total average delivered cost reflect data supplied by both regulated and unregulated plants. Average delivered cost for firm, interruptible, spot, and unclassified/other purchase types reflect data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • Mcf = thousand cubic feet • Firm and Interruptible data represent contracted purchases only. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 14.A. Receipts and Average Delivered Cost of Natural Gas by Type of Purchase, Census Division and State: Total (All Sectors), 2008(Continued)

Census Division and State	Unclassified/Other			Total			
	Receipts (1,000 Mcf)	Cost		Receipts (1,000 Mcf)	Heat Value (Btu per Cubic Foot)	Cost	
		(cents per million Btu)	($ per Mcf)			(cents per million Btu)	($ per Mcf)
New England	**14,105**	**986**	**10.19**	**394,730**	**1,033**	**1,012**	**10.46**
Connecticut	5,881	--	--	65,187	1,012	1,033	10.46
Maine	NM	--	--	59,901	1,053	1,006	10.60
Massachusetts	5,917	986	10.19	165,924	1,034	1,014	10.49
New Hampshire	418	--	--	49,195	1,049	W	W
Rhode Island	1,697	--	--	54,484	1,020	W	W
Vermont	--	--	--	38	1,005	909	9.14
Middle Atlantic	**26,334**	**1,024**	**10.44**	**752,014**	**1,025**	**1,047**	**10.73**
New Jersey	9,168	--	--	186,281	1,032	1,041	10.74
New York	14,020	1,025	10.44	413,327	1,019	1,062	10.82
Pennsylvania	3,145	1,011	10.42	152,405	1,031	1,016	10.48
East North Central	**29,764**	**881**	**8.96**	**275,521**	**1,016**	**919**	**9.34**
Illinois	2,559	1,035	10.51	49,742	1,012	967	9.78
Indiana	4,784	1,029	10.44	52,012	1,015	948	9.62
Michigan	10,655	823	8.33	99,021	1,013	861	8.73
Ohio	5,398	1,061	10.99	25,605	1,035	1,035	10.72
Wisconsin	6,368	770	7.84	49,141	1,016	895	9.10
West North Central	**9,933**	**923**	**9.38**	**134,928**	**1,016**	**W**	**W**
Iowa	296	803	8.12	21,458	1,012	W	W
Kansas	357	902	9.19	26,780	1,015	W	W
Minnesota	5,706	771	7.81	33,968	1,015	891	9.03
Missouri	3,088	1,057	10.79	42,888	1,021	W	W
Nebraska	201	712	7.12	7,266	1,007	W	W
North Dakota	NM	829	8.52	NM	NM	NM	NM
South Dakota	283	828	8.39	2,568	1,011	724	7.32
South Atlantic	**32,328**	**1,021**	**10.51**	**1,128,275**	**1,030**	**1,014**	**10.44**
Delaware	205	1,058	10.95	12,981	1,035	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	15,023	1,016	10.44	816,252	1,028	1,010	10.38
Georgia	3,629	1,000	10.35	107,306	1,035	996	10.31
Maryland	7,724	--	--	23,742	1,050	1,051	11.03
North Carolina	709	--	--	36,793	1,031	W	W
South Carolina	NM	1,029	10.60	46,973	1,030	1,017	10.48
Virginia	4,095	--	--	81,380	1,036	1,043	10.80
West Virginia	913	--	--	2,849	1,028	1,048	10.77
East South Central	**18,229**	**882**	**8.99**	**392,067**	**1,024**	**962**	**9.85**
Alabama	8,357	--	--	178,936	1,028	973	10.00
Kentucky	3,935	1,099	11.24	13,629	1,023	W	W
Mississippi	3,946	881	8.98	193,463	1,020	942	9.61
Tennessee	1,990	--	--	6,038	1,031	W	W
West South Central	**87,987**	**871**	**8.91**	**2,757,580**	**1,027**	**880**	**9.03**
Arkansas	9,050	855	8.82	73,848	1,032	890	9.18
Louisiana	14,484	802	8.30	487,810	1,035	945	9.78
Oklahoma	1,659	854	8.81	290,446	1,032	793	8.18
Texas	62,794	873	8.93	1,905,476	1,023	876	8.96
Mountain	**17,273**	**780**	**8.09**	**734,036**	**1,031**	**778**	**8.01**
Arizona	891	--	--	284,700	1,028	837	8.60
Colorado	2,410	777	8.04	108,215	1,036	678	7.02
Idaho	2,189	--	--	14,069	1,017	W	W
Montana	912	791	8.13	1,423	1,025	W	W
Nevada	NM	793	8.24	184,246	1,039	797	8.28
New Mexico	2,069	804	8.27	72,539	1,022	802	8.20
Utah	4,762	771	8.09	58,101	1,036	W	W
Wyoming	4,038	762	7.51	10,744	985	423	4.17
Pacific Contiguous	**160,085**	**770**	**7.91**	**1,264,618**	**1,026**	**799**	**8.20**
California	156,190	771	7.92	1,060,611	1,026	808	8.29
Oregon	1,335	740	7.56	126,636	1,021	705	7.20
Washington	2,560	748	7.70	77,371	1,029	833	8.57
Pacific Noncontiguous	**5,133**	**772**	**7.77**	**45,278**	**1,007**	**W**	**W**
Alaska	5,133	772	7.77	45,278	1,007	W	W
Hawaii	--	--	--	--	--	--	--
U.S. Total	**401,169**	**854**	**8.73**	**7,879,046**	**1,027**	**902**	**9.26**

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes: • Natural gas, including a small amount of supplemental gaseous fuels that cannot be identified separately. Natural gas values do not include blast furnace gas or other gas. • Receipts and total average delivered cost reflect data supplied by both regulated and unregulated plants. Average delivered cost for firm, interruptible, spot, and unclassified/other purchase types reflect data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • Mcf = thousand cubic feet • Firm and Interruptible data represent contracted purchases only. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 14.B. Receipts and Average Delivered Cost of Natural Gas by Type of Purchase, Census Division and State: Total (All Sectors), 2007

Census Division and State	Firm			Interruptible			Spot		
	Receipts (1,000 Mcf)	Cost (cents per million Btu)	Cost ($ per Mcf)	Receipts (1,000 Mcf)	Cost (cents per million Btu)	Cost ($ per Mcf)	Receipts (1,000 Mcf)	Cost (cents per million Btu)	Cost ($ per Mcf)
New England	**129,210**	**--**	**--**	**29,914**	**755**	**7.74**	**263,944**	**794**	**8.29**
Connecticut	18,105	--	--	3,943	--	--	50,565	--	--
Maine	33,197	--	--	--	--	--	20,725	--	--
Massachusetts	13,999	--	--	5,834	754	7.74	163,399	789	8.14
New Hampshire	--	--	--	20,109	--	--	18,453	799	8.45
Rhode Island	63,909	--	--	--	--	--	10,802	--	--
Vermont	--	--	--	27	761	7.72	--	--	--
Middle Atlantic	**280,568**	**812**	**8.32**	**126,241**	**--**	**--**	**319,139**	**786**	**8.02**
New Jersey	43,313	--	--	90,127	--	--	27,601	--	--
New York	160,878	812	8.32	31,927	--	--	213,413	786	8.02
Pennsylvania	76,377	--	--	4,188	--	--	78,125	--	--
East North Central	**121,522**	**805**	**8.16**	**65,324**	**785**	**7.99**	**113,681**	**762**	**7.85**
Illinois	12,788	--	--	22,380	--	--	33,618	--	--
Indiana	9,939	--	--	7,680	773	7.93	23,877	609	6.20
Michigan	81,370	806	8.17	6,807	810	8.18	27,533	876	8.93
Ohio	1,458	755	7.87	5,921	803	8.26	22,334	748	7.76
Wisconsin	15,966	--	--	22,535	780	7.93	6,319	1,092	10.93
West North Central	**23,444**	**715**	**7.35**	**31,297**	**659**	**6.69**	**16,405**	**707**	**7.16**
Iowa	30	926	9.38	1,359	770	7.85	1,023	753	7.53
Kansas	651	629	6.69	19,550	616	6.27	1,455	658	6.75
Minnesota	8,355	748	7.56	5,242	762	7.71	7,721	802	8.02
Missouri	14,064	708	7.28	4,865	688	6.91	5,964	--	--
Nebraska	344	1,144	11.17	281	787	8.02	242	693	6.94
North Dakota	--	--	--	1	599	6.41	--	--	--
South Dakota	--	--	--	--	--	--	--	--	--
South Atlantic	**673,214**	**951**	**9.78**	**135,623**	**770**	**8.05**	**227,929**	**828**	**8.49**
Delaware	12,564	--	--	7,331	--	--	134	--	--
District of Columbia	--	--	--	--	--	--	--	--	--
Florida	591,396	954	9.81	27,430	867	9.14	120,472	866	8.84
Georgia	24,114	724	7.49	46,517	703	7.40	39,062	699	7.23
Maryland	5,493	--	--	2,409	--	--	10,804	--	--
North Carolina	18,761	918	9.50	853	767	7.94	7,207	--	--
South Carolina	1,724	--	--	25,912	794	8.16	7,939	--	--
Virginia	17,558	--	--	22,831	--	--	42,220	792	8.18
West Virginia	1,604	--	--	2,340	849	8.49	91	--	--
East South Central	**77,528**	**778**	**8.03**	**63,684**	**640**	**6.67**	**209,762**	**718**	**7.40**
Alabama	50,965	748	7.69	62,895	640	6.67	69,411	772	7.93
Kentucky	22	--	--	--	--	--	3,597	808	8.28
Mississippi	26,254	900	9.48	136	--	--	136,753	715	7.37
Tennessee	287	--	--	652	--	--	--	--	--
West South Central	**1,336,554**	**660**	**6.78**	**130,594**	**689**	**7.04**	**1,172,050**	**686**	**7.04**
Arkansas	33,232	--	--	--	--	--	21,099	742	7.62
Louisiana	291,331	630	6.66	--	--	--	176,688	739	7.63
Oklahoma	161,623	669	6.94	5,938	653	6.50	116,327	645	6.60
Texas	850,369	634	6.36	124,656	689	7.04	857,936	670	6.85
Mountain	**235,758**	**664**	**6.77**	**65,204**	**659**	**6.75**	**347,677**	**536**	**5.59**
Arizona	124,308	730	7.46	51,492	659	6.75	93,259	511	5.24
Colorado	57,549	422	4.22	182	439	4.48	60,877	--	--
Idaho	10,093	--	--	--	--	--	--	--	--
Montana	--	--	--	10	688	7.98	749	--	--
Nevada	38,671	868	9.01	--	--	--	130,772	545	5.70
New Mexico	371	946	9.64	13,520	663	6.80	21,727	653	6.66
Utah	58	--	--	--	--	--	40,271	448	4.71
Wyoming	4,707	698	7.45	--	--	--	21	--	--
Pacific Contiguous	**455,098**	**606**	**6.08**	**74,731**	**832**	**8.51**	**438,193**	**586**	**6.00**
California	356,180	608	6.10	63,611	785	8.08	394,472	597	6.11
Oregon	72,187	--	--	11,121	837	8.56	26,169	545	5.56
Washington	26,731	439	4.42	--	--	--	17,552	637	6.40
Pacific Noncontiguous	**35,391**	**358**	**3.58**	**--**	**--**	**--**	**--**	**--**	**--**
Alaska	35,391	358	3.58	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--	--	--
U.S. Total	**3,368,286**	**831**	**8.51**	**722,612**	**711**	**7.34**	**3,108,779**	**678**	**6.97**

Notes: • Natural gas, including a small amount of supplemental gaseous fuels that cannot be identified separately. Natural gas values do not include blast furnace gas or other gas. • Receipts, heat value, and total average delivered cost of fuel reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost for firm, interruptible, spot and unclassified/other purchase types reflect data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • Mcf = thousand cubic feet. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 14.B. Receipts and Average Delivered Cost of Natural Gas by Type of Purchase, Census Division and State: Total (All Sectors), 2007(Continued)

Census Division and State	Unclassified/Other			Total			
	Receipts (1,000 Mcf)	Cost		Receipts (1,000 Mcf)	Heat Value (Btu per Cubic Foot)	Cost	
		(cents per million Btu)	($ per Mcf)			(cents per million Btu)	($ per Mcf)
New England	**--**	**--**	**--**	**423,067**	**1,035**	**780**	**8.08**
Connecticut	--	--	--	72,612	1,011	773	7.81
Maine	--	--	--	53,922	1,056	W	W
Massachusetts	--	--	--	183,232	1,036	789	8.17
New Hampshire	--	--	--	38,563	1,056	W	W
Rhode Island	--	--	--	74,711	1,031	781	8.06
Vermont	--	--	--	27	1,014	761	7.72
Middle Atlantic	**440**	**--**	**--**	**726,388**	**1,025**	**790**	**8.10**
New Jersey	--	--	--	161,040	1,034	789	8.16
New York	--	--	--	406,218	1,018	795	8.09
Pennsylvania	440	--	--	159,130	1,035	780	8.07
East North Central	**200**	**958**	**9.77**	**300,726**	**1,020**	**705**	**7.19**
Illinois	--	--	--	68,786	1,019	708	7.22
Indiana	--	--	--	41,496	1,026	752	7.71
Michigan	200	958	9.77	115,910	1,014	656	6.65
Ohio	--	--	--	29,713	1,033	764	7.89
Wisconsin	--	--	--	44,821	1,021	741	7.57
West North Central	**--**	**--**	**--**	**71,146**	**1,020**	**678**	**6.92**
Iowa	--	--	--	2,412	1,011	765	7.73
Kansas	--	--	--	21,656	1,020	619	6.31
Minnesota	--	--	--	21,318	1,018	W	W
Missouri	--	--	--	24,893	1,024	W	W
Nebraska	--	--	--	866	997	899	8.97
North Dakota	--	--	--	1	1,071	599	6.41
South Dakota	--	--	--	--	--	--	--
South Atlantic	**--**	**--**	**--**	**1,036,766**	**1,032**	**870**	**8.98**
Delaware	--	--	--	20,029	1,088	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	--	--	--	739,298	1,029	907	9.33
Georgia	--	--	--	109,693	1,040	727	7.56
Maryland	--	--	--	18,706	1,042	757	7.89
North Carolina	--	--	--	26,822	1,034	W	W
South Carolina	--	--	--	35,574	1,030	792	8.16
Virginia	--	--	--	82,609	1,035	816	8.44
West Virginia	--	--	--	4,035	1,033	802	8.28
East South Central	**--**	**--**	**--**	**350,974**	**1,031**	**710**	**7.32**
Alabama	--	--	--	183,271	1,031	700	7.21
Kentucky	--	--	--	3,620	1,025	W	W
Mississippi	--	--	--	163,144	1,032	720	7.43
Tennessee	--	--	--	939	1,032	W	W
West South Central	**--**	**--**	**--**	**2,639,198**	**1,026**	**673**	**6.91**
Arkansas	--	--	--	54,330	1,026	686	7.04
Louisiana	--	--	--	468,019	1,034	720	7.44
Oklahoma	--	--	--	283,888	1,029	650	6.68
Texas	--	--	--	1,832,961	1,023	664	6.80
Mountain	**--**	**--**	**--**	**648,639**	**1,029**	**588**	**6.05**
Arizona	--	--	--	269,059	1,022	670	6.84
Colorado	--	--	--	118,608	1,026	424	4.35
Idaho	--	--	--	10,093	1,024	W	W
Montana	--	--	--	759	1,013	W	W
Nevada	--	--	--	169,443	1,044	605	6.31
New Mexico	--	--	--	35,618	1,005	W	W
Utah	--	--	--	40,329	1,051	W	W
Wyoming	--	--	--	4,728	988	W	W
Pacific Contiguous	**--**	**--**	**--**	**968,022**	**1,025**	**651**	**6.67**
California	--	--	--	814,263	1,025	659	6.76
Oregon	--	--	--	109,476	1,023	607	6.20
Washington	--	--	--	44,283	1,023	612	6.27
Pacific Noncontiguous	**--**	**--**	**--**	**35,391**	**1,000**	**358**	**3.58**
Alaska	--	--	--	35,391	1,000	358	3.58
Hawaii	--	--	--	--	--	--	--
U.S. Total	**640**	**958**	**9.77**	**7,200,316**	**1,027**	**711**	**7.30**

W = Withheld to avoid disclosure of individual company data.

Notes: • Natural gas, including a small amount of supplemental gaseous fuels that cannot be identified separately. Natural gas values do not include blast furnace gas or other gas. • Receipts, heat value, and total average delivered cost of fuel reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost for firm, interruptible, spot and unclassified/other purchase types reflect data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • Mcf = thousand cubic feet. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Origin and Destination of Coal

Table 15.A. Destination and Origin of Coal to Electric Plants By State: Total (All Sectors), 2008

Destination Origin	Quantity (thousand tons)	Average Quality				Average Delivered Cost	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Alabama	**36,613**	**10,659**	**.89**	**.83**	**8.62**	**271**	**57.86**
Alabama	7,891	11,937	1.52	1.27	13.51	290	69.14
Colorado	2,945	11,736	.61	.52	9.99	271	63.56
Illinois	808	11,878	2.25	1.90	7.56	238	56.46
Indiana	363	11,478	.96	.83	6.01	286	65.57
Kentucky	3,344	11,906	2.29	1.92	11.09	294	70.03
Tennessee	73	11,735	1.54	1.31	15.50	248	58.23
Utah	1,790	11,910	.59	.49	11.44	256	61.09
Virginia	184	12,329	1.17	.95	11.63	470	115.87
West Virginia	232	11,838	1.03	.87	14.30	392	92.84
Wyoming	13,402	8,708	.29	.33	5.02	178	30.94
Imported	5,076	11,441	.55	.48	6.78	402	92.01
Unclassified	504	11,774	1.23	1.04	10.65	--	--
Alaska	**922**	**8,698**	**.33**	**.38**	**5.83**	**W**	**W**
Alaska	922	8,698	.33	.38	5.83	146	25.32
Arizona	**23,379**	**9,828**	**.59**	**.60**	**10.37**	**W**	**W**
Arizona	7,958	10,841	.56	.52	10.05	163	35.34
Colorado	1,376	10,209	.36	.35	6.76	238	48.65
Montana	720	9,369	.36	.38	4.24	181	33.88
New Mexico	8,017	9,483	.82	.87	15.35	166	31.42
Wyoming	5,307	8,793	.37	.43	5.10	183	32.15
Arkansas	**15,707**	**8,711**	**.28**	**.33**	**4.99**	**W**	**W**
Colorado	70	9,800	.44	.45	5.70	370	72.45
Wyoming	15,464	8,670	.27	.31	4.93	171	29.64
Unclassified	173	11,968	1.68	1.41	10.69	--	--
California	**1,804**	**11,667**	**.58**	**.49**	**10.62**	**W**	**W**
Utah	1,619	11,666	.57	.49	10.61	--	--
Unclassified	186	11,681	.59	.51	10.67	--	--
Colorado	**18,913**	**9,811**	**.38**	**.39**	**7.41**	**W**	**W**
Colorado	10,631	10,641	.45	.43	9.20	160	34.09
Wyoming	7,865	8,611	.27	.32	4.82	115	19.85
Unclassified	417	11,263	.50	.44	10.95	165	37.14
Connecticut	**2,033**	**10,215**	**.39**	**.38**	**4.98**	**W**	**W**
Alabama	44	12,364	.99	.80	12.10	--	--
West Virginia	614	12,412	.99	.80	11.60	--	--
Imported	1,376	9,166	.10	.11	1.80	--	--
Delaware	**2,363**	**12,452**	**.74**	**.60**	**10.75**	**W**	**W**
Colorado	357	12,157	.53	.43	9.64	--	--
Kentucky	365	12,499	.72	.58	10.43	--	--
Pennsylvania	114	12,874	.99	.77	8.57	--	--
Virginia	324	12,646	.97	.77	11.43	--	--
West Virginia	1,075	12,441	.74	.59	11.16	--	--
Wyoming	45	12,225	.60	.49	12.65	--	--
Unclassified	83	12,444	.73	.59	10.81	--	--
Florida	**29,016**	**11,929**	**1.38**	**1.16**	**9.84**	**297**	**70.83**
Colorado	1,855	11,767	.60	.51	8.77	345	81.16
Illinois	2,896	11,620	2.81	2.42	8.43	225	52.23
Indiana	8	11,771	2.48	2.11	9.62	413	97.25
Kentucky	10,316	12,290	1.88	1.53	9.65	283	69.72
Ohio	255	12,618	4.48	3.55	9.09	450	113.66
Tennessee	12	11,695	2.48	2.12	9.40	421	98.40
Virginia	18	12,538	1.12	.89	8.95	487	122.09
West Virginia	7,411	12,170	.84	.69	11.34	350	84.80
Wyoming	64	8,900	.30	.34	4.80	304	54.17
Imported	6,025	11,213	.61	.54	9.39	244	54.74
Unclassified	156	11,926	1.41	1.18	9.82	--	--
Georgia	**39,683**	**10,947**	**.78**	**.72**	**8.51**	**307**	**67.22**
Alabama	1,079	12,367	1.69	1.36	11.94	303	75.02
Colorado	129	12,135	.47	.39	8.61	563	136.75
Illinois	54	11,573	1.94	1.68	8.97	446	103.29
Indiana	174	12,008	.86	.72	8.11	330	79.24
Kentucky	17,333	12,398	1.09	.88	10.98	339	84.11
Tennessee	794	12,606	1.22	.97	8.84	373	93.97
Virginia	2,853	12,477	1.10	.88	11.27	353	87.90
West Virginia	1,571	12,220	.79	.64	11.89	364	89.44

Table 15.A. Destination and Origin of Coal to Electric Plants By State: Total (All Sectors), 2008 (Continued)

Destination Origin	Quantity (thousand tons)	Average Quality				Average Delivered Cost	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Georgia (Continued)							
Wyoming	14,613	8,529	.28	.33	4.58	206	35.08
Imported	983	11,395	.47	.41	5.56	386	87.89
Unclassified	101	12,345	1.08	.87	10.86	291	71.86
Hawaii	**681**	**10,669**	**.66**	**.62**	**8.88**	**W**	**W**
Imported	681	10,669	.66	.62	8.88	--	--
Idaho	**198**	**9,947**	**.85**	**.85**	**7.69**	**W**	**W**
Unclassified	198	9,947	.85	.85	7.69	--	--
Illinois	**60,517**	**8,892**	**.50**	**.57**	**5.36**	**158**	**28.09**
Alabama	23	11,137	3.15	2.83	13.16	--	--
Illinois	5,138	10,592	3.02	2.85	10.25	182	36.60
Indiana	43	10,580	2.36	2.23	8.95	--	--
Kentucky	205	5,914	2.58	4.36	22.55	131	14.82
Wyoming	54,724	8,728	.24	.27	4.80	--	--
Unclassified	386	10,776	3.07	2.85	9.51	187	40.33
Indiana	**61,080**	**10,486**	**1.71**	**1.63**	**7.76**	**193**	**40.50**
Alabama	16	10,799	1.18	1.09	8.81	331	71.52
Colorado	731	12,028	.48	.40	9.90	243	58.56
Illinois	6,033	11,153	2.42	2.17	8.70	206	46.51
Indiana	29,128	11,150	2.57	2.31	9.18	171	38.09
Kentucky	993	12,066	1.31	1.09	10.97	404	97.28
Montana	1,571	9,386	.35	.37	4.14	--	--
Ohio	17	12,113	2.65	2.19	9.08	469	113.59
Pennsylvania	1,266	13,032	2.30	1.77	7.90	270	70.49
West Virginia	2,073	12,426	1.55	1.25	10.46	280	69.62
Wyoming	18,516	8,746	.24	.28	4.89	186	32.53
Unclassified	735	11,317	2.43	2.15	9.19	190	43.00
Iowa	**27,801**	**8,605**	**.41**	**.48**	**5.35**	**127**	**21.93**
Alabama	336	10,293	3.20	3.11	7.93	--	--
Colorado	65	11,699	.48	.41	9.48	301	70.52
Illinois	370	11,183	2.91	2.60	8.87	269	61.29
Indiana	146	10,987	.98	.89	10.27	276	60.63
Kentucky	5	11,405	.95	.83	8.00	241	54.94
Wyoming	26,001	8,503	.31	.37	5.20	115	19.53
Unclassified	879	9,270	1.20	1.30	6.27	193	32.74
Kansas	**21,533**	**8,545**	**.39**	**.45**	**5.22**	**141**	**24.15**
Kansas	48	10,848	3.71	3.42	15.73	180	38.96
Missouri	168	10,960	3.93	3.59	15.88	179	39.16
Wyoming	21,317	8,521	.35	.41	5.11	141	24.00
Kentucky	**41,399**	**11,534**	**2.33**	**2.02**	**10.67**	**214**	**49.30**
Colorado	3,239	11,974	.56	.47	9.70	232	55.50
Illinois	1,210	11,784	2.67	2.26	8.51	275	64.74
Indiana	2,261	10,858	2.48	2.29	10.17	201	43.58
Kentucky	25,645	11,644	2.67	2.30	10.70	214	50.03
Ohio	1,674	11,482	3.83	3.34	14.21	205	47.07
Pennsylvania	3	13,155	2.66	2.02	8.50	308	81.06
Tennessee	73	12,957	1.24	.96	7.36	233	60.45
Utah	165	11,737	.45	.38	10.63	262	61.57
Virginia	10	13,595	.49	.36	4.10	771	209.55
West Virginia	5,189	11,936	1.99	1.66	12.78	228	54.53
Wyoming	1,927	8,846	.29	.33	5.22	184	32.48
Unclassified	NM	NM	NM	NM	NM	187	43.73
Louisiana	**15,399**	**8,183**	**.41**	**.50**	**6.55**	**W**	**W**
Louisiana	3,855	7,125	.75	1.05	11.56	189	26.99
Wyoming	11,517	8,530	.29	.34	4.86	269	46.47
Imported	3	9,605	.25	.26	5.10	553	106.29
Unclassified	24	11,342	1.56	1.38	10.80	--	--
Maine	**243**	**12,979**	**.72**	**.55**	**6.90**	**W**	**W**
Imported	243	12,979	.72	.55	6.90	--	--
Maryland	**11,167**	**12,361**	**1.20**	**.97**	**10.79**	**366**	**90.47**
Kentucky	603	12,450	1.15	.92	9.36	--	--
Maryland	1,138	11,395	1.69	1.49	18.85	--	--
Pennsylvania	2,416	12,927	1.73	1.33	8.24	--	--
West Virginia	6,415	12,510	.99	.79	10.88	--	--
Wyoming	258	8,816	.25	.29	5.08	--	--
Imported	338	11,305	.52	.46	7.29	--	--

Table 15.A. Destination and Origin of Coal to Electric Plants By State: Total (All Sectors), 2008 (Continued)

Destination / Origin	Quantity (thousand tons)	Average Quality				Average Delivered Cost	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Massachusetts	**4,674**	**11,517**	**.52**	**.46**	**6.77**	**294**	**67.74**
Kentucky	573	12,202	.75	.62	10.11	--	--
Imported	4,018	11,417	.49	.43	6.29	--	--
Unclassified	83	11,614	.52	.45	6.89	--	--
Michigan	**38,251**	**9,902**	**.54**	**.55**	**5.99**	**197**	**38.94**
Colorado	979	11,840	.47	.40	9.75	306	72.28
Illinois	139	11,353	1.45	1.28	9.45	--	--
Indiana	24	11,236	1.12	.99	9.28	--	--
Kentucky	5,231	12,745	1.35	1.06	8.56	255	65.08
Montana	8,142	9,305	.36	.39	4.77	137	25.53
Ohio	280	12,049	2.93	2.43	10.86	301	72.47
Pennsylvania	606	12,752	2.05	1.61	8.35	223	56.93
Utah	251	12,133	1.10	.91	10.15	355	87.07
West Virginia	1,450	12,661	.99	.78	10.76	320	80.77
Wyoming	20,406	8,874	.26	.30	4.97	171	30.36
Unclassified	742	12,528	1.21	.97	9.02	177	44.58
Minnesota	**19,860**	**8,902**	**.46**	**.52**	**6.57**	**169**	**30.10**
Illinois	99	10,939	.94	.86	8.08	393	85.89
Kentucky	46	12,700	.96	.76	8.80	377	95.76
Montana	10,880	8,924	.56	.63	7.67	154	27.43
Wyoming	7,777	8,794	.30	.34	4.94	177	31.15
Unclassified	1,058	9,126	.57	.63	7.03	179	32.27
Mississippi	**9,730**	**9,276**	**.55**	**.59**	**10.56**	**W**	**W**
Colorado	1,524	11,544	.55	.47	9.25	351	81.07
Kentucky	12	12,360	.68	.55	11.30	329	81.25
Mississippi	3,018	5,068	.48	.95	15.92	--	--
Virginia	816	12,718	1.03	.81	10.07	332	84.54
West Virginia	231	12,394	.84	.68	11.62	328	81.24
Wyoming	1,012	8,738	.21	.24	4.63	258	45.02
Imported	3,078	11,267	.58	.51	7.98	326	73.57
Unclassified	NM	NM	NM	NM	NM	287	66.68
Missouri	**44,793**	**8,837**	**.38**	**.43**	**5.27**	**151**	**26.66**
Illinois	477	11,243	2.77	2.47	8.61	268	60.10
Kansas	132	11,626	3.39	2.92	11.94	227	52.88
Kentucky	627	12,202	2.86	2.35	7.98	188	45.82
Missouri	21	10,831	3.88	3.58	15.71	255	55.23
Utah	394	12,160	1.08	.89	9.78	283	68.78
Wyoming	42,844	8,699	.28	.33	5.10	146	25.38
Unclassified	299	11,893	2.49	2.09	9.04	180	42.75
Montana	**12,321**	**8,347**	**.69**	**.83**	**9.88**	**W**	**W**
Montana	11,399	8,386	.69	.82	9.47	134	17.43
Wyoming	673	8,363	.22	.27	4.35	--	--
Unclassified	249	6,532	2.37	3.63	43.47	--	--
Nebraska	**14,663**	**8,496**	**.31**	**.36**	**5.17**	**90**	**15.35**
Utah	12	11,065	.34	.31	10.00	196	43.46
Wyoming	14,651	8,494	.31	.36	5.17	90	15.33
Nevada	**3,963**	**10,664**	**.44**	**.42**	**9.07**	**W**	**W**
Colorado	278	12,170	.54	.44	9.74	248	60.27
Utah	2,247	11,392	.49	.43	10.30	223	50.73
Wyoming	1,240	9,242	.35	.38	7.00	199	37.88
Unclassified	197	9,192	.35	.38	7.22	--	--
New Hampshire	**1,459**	**12,886**	**1.20**	**.93**	**6.77**	**353**	**90.86**
Pennsylvania	340	13,036	1.95	1.49	7.26	356	92.95
Virginia	87	13,955	.66	.47	4.73	328	91.43
West Virginia	160	13,289	2.63	1.98	7.31	332	88.29
Imported	873	12,648	.71	.56	6.69	358	90.46
New Jersey	**4,483**	**12,073**	**1.03**	**.86**	**6.18**	**333**	**80.36**
Alabama	71	12,626	.85	.67	6.40	--	--
Kentucky	66	12,505	.74	.59	9.90	--	--
Pennsylvania	1,061	13,058	1.85	1.42	6.96	--	--
Virginia	858	13,549	.95	.70	6.45	--	--
West Virginia	927	12,797	1.50	1.17	9.54	--	--
Wyoming	84	8,836	.32	.37	5.34	--	--
Imported	1,414	10,108	.23	.23	3.08	413	105.26
New Mexico	**15,419**	**9,173**	**.75**	**.82**	**21.96**	**199**	**36.59**

Table 15.A. Destination and Origin of Coal to Electric Plants By State: Total (All Sectors), 2008 (Continued)

Destination Origin	Quantity (thousand tons)	Average Quality				Average Delivered Cost	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
New Mexico (Continued)							
New Mexico	15,419	9,173	.75	.82	21.96	199	36.59
New York	**9,505**	**11,248**	**1.43**	**1.27**	**7.14**	**257**	**57.88**
Kentucky	158	12,889	.96	.74	9.64	--	--
Montana	260	9,316	.34	.37	4.36	--	--
Ohio	15	12,301	3.76	3.06	7.67	350	87.50
Pennsylvania	1,008	12,529	2.04	1.63	10.80	304	74.17
West Virginia	3,279	13,011	2.80	2.15	8.42	261	69.25
Wyoming	3,610	8,862	.28	.31	5.06	--	--
Imported	956	12,721	.61	.48	6.75	--	--
Unclassified	219	12,876	2.21	1.72	8.38	188	48.52
North Carolina	**31,394**	**12,243**	**1.01**	**.82**	**11.52**	**326**	**79.77**
Alabama	4	12,614	.66	.52	14.55	352	88.82
Kentucky	11,687	12,376	1.07	.86	10.50	338	83.20
Tennessee	160	12,649	1.07	.85	8.37	287	72.55
Virginia	1,218	11,795	1.04	.88	15.20	320	75.05
West Virginia	17,724	12,184	.97	.80	12.07	320	77.91
Imported	360	12,178	.72	.59	6.06	393	95.64
Unclassified	241	12,205	1.01	.83	11.74	--	--
North Dakota	**25,163**	**6,667**	**.73**	**1.10**	**9.62**	**110**	**14.69**
Montana	802	9,297	.36	.39	4.84	124	23.10
North Dakota	23,827	6,543	.75	1.15	9.88	107	13.95
Wyoming	240	7,982	.32	.40	5.07	161	25.65
Unclassified	294	8,460	.33	.39	5.58	--	--
Ohio	**58,556**	**11,444**	**1.96**	**1.71**	**9.42**	**205**	**46.92**
Alabama	59	13,125	2.32	1.77	7.89	--	--
Illinois	2,345	11,751	2.44	2.08	8.34	216	50.73
Indiana	370	11,263	3.11	2.77	8.89	182	40.94
Kentucky	9,263	11,730	1.55	1.32	11.82	224	52.54
Montana	130	9,461	.34	.35	4.89	--	--
Ohio	15,338	12,117	3.57	2.94	10.08	178	43.13
Pennsylvania	5,241	12,973	2.51	1.94	8.38	212	54.88
Virginia	23	12,445	.69	.55	11.20	--	--
West Virginia	13,450	12,103	1.57	1.30	11.30	187	45.71
Wyoming	11,641	8,826	.26	.30	5.13	216	38.19
Unclassified	695	11,636	1.86	1.60	10.98	188	45.66
Oklahoma	**23,213**	**8,689**	**.36**	**.42**	**5.64**	**W**	**W**
Colorado	114	11,965	.45	.38	9.90	--	--
Oklahoma	559	10,202	2.05	2.01	26.28	--	--
Wyoming	22,540	8,635	.32	.37	5.11	132	22.81
Oregon	**2,655**	**8,339**	**.28**	**.33**	**4.74**	**145**	**24.15**
Wyoming	2,655	8,339	.28	.33	4.74	145	24.15
Pennsylvania	**57,044**	**11,079**	**2.09**	**1.88**	**18.31**	**210**	**46.53**
Illinois	23	12,225	3.01	2.46	9.00	--	--
Kentucky	587	12,524	1.25	1.00	9.01	--	--
Montana	195	9,246	.35	.38	4.44	--	--
Ohio	1,098	12,235	3.02	2.47	11.33	--	--
Pennsylvania	42,073	10,966	2.05	1.87	19.72	--	--
Virginia	21	13,339	2.65	1.98	7.17	--	--
West Virginia	9,527	12,582	2.40	1.90	10.54	--	--
Wyoming	1,431	8,797	.35	.40	5.27	--	--
Unclassified	2,089	7,182	2.39	3.33	41.91	--	--
South Carolina	**15,919**	**12,435**	**1.34**	**1.08**	**10.39**	**W**	**W**
Indiana	24	11,731	3.42	2.91	8.10	236	55.48
Kentucky	10,219	12,343	1.34	1.08	10.61	288	70.95
Pennsylvania	2,378	12,776	1.90	1.49	8.96	195	49.79
Tennessee	637	12,541	1.20	.96	9.99	306	77.25
Virginia	128	12,572	1.11	.88	10.34	385	96.76
West Virginia	2,122	12,422	.86	.69	11.65	320	79.49
Imported	400	12,650	.80	.63	7.36	568	143.60
Unclassified	NM	NM	NM	NM	NM	--	--
South Dakota	**2,257**	**8,391**	**.31**	**.37**	**5.42**	**174**	**29.16**
Wyoming	2,257	8,391	.31	.37	5.42	174	29.16
Tennessee	**28,765**	**11,090**	**1.22**	**1.10**	**8.18**	**W**	**W**
Colorado	2,102	12,019	.56	.46	9.30	214	51.33
Illinois	5,691	12,085	2.89	2.39	8.72	178	42.96

Table 15.A. Destination and Origin of Coal to Electric Plants By State: Total (All Sectors), 2008 (Continued)

Destination / Origin	Quantity (thousand tons)	Average Quality				Average Delivered Cost	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Tennessee (Continued)							
Kentucky	5,073	12,212	1.47	1.20	10.49	247	60.03
Pennsylvania	272	13,101	2.84	2.17	8.51	225	59.02
Tennessee	16	12,418	1.00	.81	9.68	403	100.01
Utah	812	12,204	.78	.64	10.74	232	56.65
Virginia	1,548	12,852	.93	.72	9.57	311	77.04
West Virginia	3,082	12,406	1.21	.97	10.99	256	63.44
Wyoming	9,775	8,836	.28	.31	5.02	198	34.97
Unclassified	393	12,249	1.68	1.37	9.80	--	--
Texas	**102,968**	**7,759**	**.56**	**.72**	**9.34**	**162**	**25.17**
Montana	28	9,753	.66	.68	9.09	308	60.04
Texas	37,925	6,514	.98	1.50	16.37	213	25.90
Wyoming	65,016	8,485	.32	.37	5.24	185	31.53
Utah	**18,142**	**11,060**	**.53**	**.48**	**12.63**	**W**	**W**
Colorado	2,070	9,392	.43	.45	15.31	203	38.06
Utah	15,668	11,339	.54	.48	12.45	128	29.36
Wyoming	405	8,813	.60	.68	6.18	263	46.41
Virginia	**15,511**	**12,492**	**.92**	**.74**	**10.01**	**277**	**69.18**
Alabama	11	12,675	.64	.50	8.60	--	--
Colorado	226	12,193	.56	.46	9.60	264	64.26
Kentucky	5,913	12,697	1.06	.84	9.42	269	68.25
Virginia	3,883	12,591	.98	.78	11.92	248	62.32
West Virginia	2,406	12,638	.83	.65	10.41	282	70.21
Imported	1,643	11,368	.47	.42	7.06	272	61.77
Unclassified	1,431	12,469	.93	.74	10.10	--	--
Washington	**5,777**	**8,366**	**.32**	**.39**	**10.20**	**W**	**W**
Montana	4,120	8,406	.30	.36	12.09	--	--
Wyoming	1,657	8,267	.37	.45	5.51	--	--
West Virginia	**38,284**	**11,897**	**2.00**	**1.68**	**12.12**	**222**	**52.72**
Illinois	127	12,030	2.47	2.05	7.57	--	--
Kentucky	2,011	12,126	1.27	1.05	11.06	372	90.41
Maryland	3,349	11,831	1.91	1.62	16.94	215	50.82
Montana	232	9,616	.67	.70	5.03	273	52.74
Ohio	4,956	12,463	4.19	3.37	9.21	159	39.64
Pennsylvania	3,377	12,822	1.91	1.49	7.97	259	66.25
West Virginia	21,851	11,948	1.78	1.49	13.62	230	55.74
Wyoming	2,329	8,980	.37	.41	5.17	201	36.06
Unclassified	52	12,250	2.11	1.72	11.77	--	--
Wisconsin	**26,551**	**9,025**	**.37**	**.41**	**5.52**	**198**	**35.81**
Alabama	37	11,445	.56	.49	10.90	370	84.69
Colorado	1,140	11,714	.48	.41	10.18	352	82.55
Illinois	236	11,894	1.52	1.28	7.46	231	54.95
Indiana	56	11,003	1.35	1.22	8.98	357	78.64
Kentucky	92	11,798	2.89	2.45	7.80	--	--
Montana	562	9,334	.31	.33	4.24	237	44.21
Pennsylvania	148	13,061	2.50	1.92	7.45	--	--
Utah	446	12,529	1.07	.85	8.97	274	68.59
West Virginia	12	10,922	.62	.57	9.60	430	93.91
Wyoming	22,665	8,631	.29	.34	5.04	179	30.89
Unclassified	1,157	11,076	.83	.75	8.25	179	36.52
Wyoming	**27,938**	**8,769**	**.51**	**.58**	**7.48**	**W**	**W**
Wyoming	27,058	8,707	.48	.56	7.41	114	19.90
Unclassified	880	10,676	1.20	1.13	9.39	165	28.76
Total	**1,069,709**	**9,947**	**.97**	**.98**	**8.95**	**207**	**41.14**

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes: • Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal. • Receipts, heat value, sulfur, ash, and average delivered cost of fuel at the destination reflect data supplied by both regulated and unregulated plants. Average delivered cost of fuel at the origin reflects data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Virginia, Florida, Illinois, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report"

Table 15.B. Destination and Origin of Coal to Electric Plants By State: Total (All Sectors), 2007

Destination Origin	Quantity (thousand tons)	Average Quality				Average Delivered Cost (Origin data based on FERC Form423 data only)	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Alabama	**37,887**	**10,644**	**.88**	**.83**	**7.98**	**W**	**W**
Alabama	9,502	11,996	1.40	1.16	12.64	248	59.30
Colorado	3,134	11,747	.56	.47	9.55	173	40.64
Illinois	1,508	11,861	2.14	1.80	7.36	197	46.72
Indiana	563	11,521	.85	.74	6.13	238	54.73
Kentucky	1,881	11,643	3.31	2.85	12.20	155	36.02
Pennsylvania	*	13,000	2.83	2.18	9.00	208	54.03
Utah	631	11,890	.74	.62	10.75	217	51.55
Wyoming	14,369	8,771	.31	.35	5.07	166	29.14
Imported	6,298	11,535	.57	.50	5.56	239	55.23
Arizona	**21,583**	**9,946**	**.57**	**.57**	**10.78**	**W**	**W**
Arizona	7,937	10,894	.55	.50	9.74	142	31.02
Colorado	1,462	10,370	.36	.35	6.53	221	45.80
Montana	599	9,303	.34	.37	4.39	161	30.00
New Mexico	7,611	9,542	.72	.75	16.04	159	30.36
Wyoming	3,975	8,765	.41	.47	5.32	159	27.82
Arkansas	**15,175**	**8,717**	**.26**	**.30**	**4.83**	**160**	**27.95**
Wyoming	14,906	8,712	.26	.30	4.86	155	26.98
Imported	269	9,008	.17	.19	3.52	456	82.16
California	**1,157**	**11,868**	**.59**	**.50**	**9.58**	**W**	**W**
Colorado	75	11,702	.53	.45	9.83	--	--
Utah	1,083	11,879	.60	.50	9.57	--	--
Colorado	**19,828**	**9,726**	**.40**	**.41**	**7.63**	**126**	**24.59**
Colorado	11,187	10,587	.48	.45	9.81	141	29.91
Wyoming	8,641	8,612	.29	.33	4.80	103	17.70
Connecticut	**2,008**	**10,286**	**.42**	**.41**	**4.94**	**W**	**W**
Virginia	47	13,462	.73	.55	6.31	--	--
West Virginia	648	12,241	1.08	.88	11.67	--	--
Imported	1,313	9,207	.09	.09	1.57	--	--
Delaware	**2,407**	**12,524**	**.73**	**.58**	**10.43**	**W**	**W**
Colorado	403	12,068	.48	.40	10.00	--	--
Kentucky	757	12,521	.64	.51	10.08	--	--
Pennsylvania	236	12,661	1.08	.86	10.28	--	--
Virginia	396	12,639	.88	.70	11.47	--	--
West Virginia	615	12,700	.77	.61	10.53	--	--
Florida	**31,566**	**12,116**	**1.35**	**1.12**	**9.18**	**256**	**61.92**
Colorado	22	11,917	.44	.37	9.16	264	62.83
Illinois	4,619	11,853	2.25	1.90	7.45	198	46.98
Kentucky	13,893	12,401	1.68	1.36	9.57	257	63.84
Pennsylvania	215	12,993	2.14	1.65	7.61	252	65.46
Virginia	135	12,876	.74	.57	9.10	275	70.78
West Virginia	4,752	12,474	.74	.59	11.85	318	79.64
Imported	7,931	11,517	.62	.54	7.96	250	57.55
Georgia	**41,679**	**10,983**	**.78**	**.71**	**8.37**	**261**	**57.37**
Alabama	890	12,134	1.80	1.49	11.81	259	62.77
Colorado	378	12,081	.41	.34	8.76	306	73.86
Kentucky	16,418	12,399	1.11	.90	10.69	281	69.62
Tennessee	343	12,758	1.15	.90	7.92	290	73.93
Virginia	5,674	12,585	1.04	.83	11.30	286	71.99
West Virginia	994	12,242	1.07	.88	12.15	323	79.49
Wyoming	15,363	8,583	.28	.33	4.66	199	34.18
Imported	1,620	11,745	.52	.44	5.50	328	77.12
Hawaii	**704**	**10,871**	**.47**	**.43**	**5.47**	**W**	**W**
Imported	704	10,871	.47	.43	5.47	--	--
Illinois	**58,477**	**8,962**	**.52**	**.58**	**5.44**	**134**	**23.95**
Colorado	12	12,290	.46	.37	8.40	--	--
Illinois	6,070	10,706	2.66	2.48	9.67	151	32.33
Indiana	55	10,850	1.75	1.61	7.80	--	--
Kentucky	385	11,031	2.44	2.21	17.74	126	27.45
Oklahoma	2	10,500	3.80	3.62	19.00	--	--
West Virginia	6	13,600	.87	.64	7.00	--	--
Wyoming	51,946	8,739	.25	.29	4.85	128	22.52
Indiana	**59,882**	**10,588**	**1.74**	**1.64**	**7.70**	**W**	**W**
Colorado	809	11,984	.41	.34	10.18	207	49.57
Illinois	7,102	11,104	2.37	2.13	8.62	173	38.77

Table 15.B. Destination and Origin of Coal to Electric Plants By State: Total (All Sectors), 2007 (Continued)

Destination / Origin	Quantity (thousand tons)	Average Quality				Average Delivered Cost (Origin data based on FERC Form423 data only)	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Indiana (Continued)							
Indiana	28,331	11,176	2.52	2.26	8.99	140	31.24
Kentucky	181	12,617	1.74	1.38	8.51	222	56.28
Montana	1,647	9,439	.33	.35	4.13	--	--
Ohio	1,339	11,452	2.05	1.79	7.27	151	34.49
Pennsylvania	1,276	13,061	2.34	1.80	8.06	207	54.07
West Virginia	2,871	12,582	1.68	1.33	10.01	177	44.52
Wyoming	16,326	8,751	.25	.28	4.91	183	32.10
Iowa	**22,592**	**8,619**	**.41**	**.47**	**5.24**	**W**	**W**
Colorado	136	11,312	.41	.36	7.60	281	63.54
Illinois	677	10,906	2.93	2.69	8.47	228	51.94
Kentucky	66	12,800	1.00	.78	10.00	374	95.74
Utah	56	10,976	.36	.33	10.97	288	63.31
Wyoming	21,654	8,511	.33	.38	5.09	102	17.28
Imported	3	11,218	.62	.55	6.10	287	64.30
Kansas	**24,384**	**8,582**	**.41**	**.48**	**5.25**	**123**	**21.12**
Kansas	374	11,034	3.93	3.57	15.97	175	38.63
Missouri	16	11,358	4.14	3.65	15.70	166	37.73
Wyoming	23,993	8,542	.35	.41	5.08	122	20.83
Kentucky	**40,063**	**11,661**	**2.22**	**1.90**	**10.54**	**175**	**40.80**
Colorado	3,210	11,966	.60	.50	9.23	171	40.82
Illinois	417	11,841	2.72	2.29	7.90	169	40.07
Indiana	1,583	10,895	2.29	2.10	9.77	187	40.70
Kentucky	25,885	11,697	2.65	2.26	10.55	171	40.29
Ohio	868	11,155	4.11	3.68	15.96	141	31.39
Pennsylvania	5	13,068	2.47	1.89	8.60	178	46.44
Tennessee	173	12,587	1.28	1.02	8.97	228	57.49
West Virginia	6,610	12,141	1.44	1.18	11.84	206	50.01
Wyoming	1,313	8,859	.31	.35	5.51	147	26.03
Louisiana	**16,756**	**8,246**	**.39**	**.47**	**6.35**	**W**	**W**
Louisiana	3,068	6,855	.73	1.07	13.02	164	22.48
Wyoming	13,510	8,549	.31	.36	4.88	230	40.11
Imported	178	9,280	.37	.40	3.33	429	79.59
Maine	**267**	**13,171**	**.65**	**.50**	**6.37**	**W**	**W**
Imported	267	13,171	.65	.50	6.37	--	--
Maryland	**11,788**	**12,501**	**1.26**	**1.01**	**10.43**	**212**	**53.11**
Kentucky	172	12,160	.84	.69	11.03	--	--
Maryland	970	11,948	1.65	1.38	15.88	--	--
Pennsylvania	3,079	12,841	1.84	1.44	8.15	--	--
Virginia	39	11,574	.93	.81	15.39	--	--
West Virginia	7,435	12,490	.99	.79	10.73	--	--
Imported	93	8,962	.23	.26	1.89	--	--
Massachusetts	**4,694**	**11,595**	**.45**	**.39**	**6.16**	**278**	**64.45**
Colorado	675	11,994	.44	.37	9.10	--	--
Indiana	21	9,350	.09	.10	1.40	--	--
Kentucky	40	12,140	.86	.71	11.00	--	--
Imported	3,958	11,533	.45	.39	5.63	--	--
Michigan	**37,014**	**9,920**	**.54**	**.55**	**5.92**	**172**	**34.11**
Colorado	770	11,954	.44	.37	9.45	265	63.21
Kentucky	5,254	12,765	1.34	1.05	8.42	235	60.02
Montana	9,811	9,360	.35	.38	4.59	107	19.96
Ohio	288	11,871	2.97	2.50	11.44	220	52.46
Pennsylvania	810	12,767	2.18	1.71	8.78	207	52.98
Utah	66	12,737	.95	.75	8.30	--	--
Virginia	5	13,180	.73	.55	8.58	--	--
West Virginia	2,091	12,639	.89	.70	10.27	251	63.25
Wyoming	17,675	8,792	.25	.28	4.99	156	27.45
Unclassified	244	10,629	1.00	.94	8.15	--	--
Minnesota	**19,883**	**8,853**	**.45**	**.51**	**6.79**	**W**	**W**
Illinois	117	10,767	.97	.90	8.03	388	83.62
Indiana	12	10,783	.86	.80	8.03	449	96.86
Kentucky	65	12,676	.89	.70	8.78	344	87.28
Montana	11,858	8,879	.55	.62	7.93	132	23.50
Wyoming	7,831	8,751	.29	.33	5.04	171	29.96
Mississippi	**9,964**	**9,290**	**.59**	**.63**	**11.66**	**W**	**W**
Colorado	1,639	11,355	.49	.43	11.35	326	74.07

Table 15.B. Destination and Origin of Coal to Electric Plants By State: Total (All Sectors), 2007 (Continued)

Destination Origin	Quantity (thousand tons)	Average Quality				Average Delivered Cost (Origin data based on FERC Form423 data only)	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Mississippi (Continued)							
Kentucky	943	12,470	1.08	.86	11.37	311	77.66
Mississippi	3,387	5,100	.47	.92	16.09	--	--
Virginia	282	12,697	1.06	.83	10.23	283	71.80
Wyoming	152	8,823	.30	.34	5.63	252	44.47
Imported	3,562	11,233	.59	.53	8.03	276	61.91
Missouri	**45,843**	**8,825**	**.38**	**.43**	**5.25**	**W**	**W**
Illinois	1,139	11,399	2.51	2.20	8.29	204	47.03
Kansas	150	11,328	3.59	3.17	13.89	157	35.62
Kentucky	278	12,505	2.61	2.09	7.39	223	55.66
Missouri	6	9,313	1.91	2.05	9.36	265	49.38
Utah	336	12,327	.97	.79	9.39	283	69.84
Wyoming	43,935	8,700	.29	.34	5.10	128	22.26
Montana	**11,479**	**8,426**	**.61**	**.72**	**9.05**	**W**	**W**
Montana	10,703	8,432	.64	.76	9.38	111	14.77
Wyoming	776	8,345	.24	.29	4.41	--	--
Nebraska	**12,780**	**8,511**	**.31**	**.37**	**5.06**	**88**	**14.96**
Wyoming	12,780	8,511	.31	.37	5.06	88	14.96
Nevada	**3,572**	**11,151**	**.46**	**.41**	**9.30**	**188**	**41.97**
Colorado	312	12,189	.46	.38	9.26	196	47.68
Utah	2,401	11,606	.49	.42	9.56	192	44.67
Wyoming	858	9,500	.38	.40	8.58	170	32.33
New Hampshire	**1,498**	**13,109**	**1.51**	**1.15**	**6.79**	**290**	**75.92**
Pennsylvania	649	12,979	1.90	1.46	7.40	318	82.50
Virginia	102	14,057	.71	.50	4.78	283	79.58
West Virginia	186	13,161	2.73	2.08	7.96	285	75.13
Imported	560	13,069	.79	.61	6.05	260	67.88
New Jersey	**4,017**	**11,890**	**.88**	**.74**	**6.13**	**289**	**68.69**
Kentucky	58	12,427	.67	.54	10.10	--	--
Ohio	9	12,635	2.83	2.24	7.50	--	--
Pennsylvania	844	13,073	1.82	1.39	7.18	--	--
Virginia	43	13,482	.70	.52	5.20	--	--
West Virginia	2,708	11,495	.63	.55	5.93	--	--
Wyoming	12	8,902	.24	.27	4.70	--	--
Imported	343	11,895	.52	.44	4.55	369	96.94
New Mexico	**16,012**	**9,198**	**.77**	**.84**	**22.06**	**179**	**32.87**
New Mexico	16,012	9,198	.77	.84	22.06	179	32.87
New York	**9,999**	**11,382**	**1.37**	**1.20**	**7.02**	**241**	**54.95**
Kentucky	19	12,610	1.09	.86	9.80	--	--
Ohio	61	12,869	3.18	2.47	8.44	--	--
Pennsylvania	1,936	12,859	2.28	1.77	8.59	228	58.44
West Virginia	3,118	13,057	2.39	1.83	8.34	235	60.66
Wyoming	3,852	8,889	.27	.30	5.30	--	--
Imported	1,013	12,775	.59	.46	6.37	--	--
North Carolina	**32,928**	**12,374**	**1.01**	**.81**	**11.45**	**274**	**67.92**
Kentucky	10,171	12,476	.94	.76	10.84	284	70.54
Tennessee	532	12,673	1.11	.88	8.57	296	75.08
Virginia	1,227	11,967	.87	.72	14.60	250	59.34
West Virginia	20,507	12,338	1.05	.85	11.76	272	66.97
Imported	491	12,426	.58	.47	6.00	291	72.25
North Dakota	**24,931**	**6,621**	**.74**	**1.12**	**9.87**	**98**	**13.02**
Montana	891	9,349	.33	.36	4.67	107	19.93
North Dakota	23,789	6,504	.76	1.17	10.12	97	12.66
Wyoming	252	8,033	.35	.43	5.07	140	22.56
Ohio	**58,372**	**11,495**	**1.70**	**1.48**	**9.74**	**171**	**39.39**
Colorado	142	10,357	.41	.39	9.08	261	54.14
Illinois	837	11,633	2.04	1.75	8.75	199	46.37
Kentucky	12,550	11,811	1.37	1.16	12.28	173	40.76
Montana	56	9,307	.32	.34	4.27	--	--
Ohio	16,896	12,266	3.16	2.58	9.44	142	35.01
Pennsylvania	4,953	12,924	2.15	1.67	8.04	177	46.46
West Virginia	10,960	12,013	1.07	.89	12.88	189	45.48
Wyoming	11,050	8,808	.28	.32	5.32	194	34.28
Unclassified	928	11,588	1.46	1.26	6.73	--	--
Oklahoma	**22,063**	**8,735**	**.41**	**.47**	**5.87**	**W**	**W**
Colorado	90	12,000	.39	.33	8.54	--	--

Table 15.B. Destination and Origin of Coal to Electric Plants By State: Total (All Sectors), 2007 (Continued)

Destination Origin	Quantity (thousand tons)	Average Quality				Average Delivered Cost (Origin data based on FERC Form423 data only)	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Oklahoma (Continued)							
Oklahoma	766	10,573	2.61	2.47	24.46	--	--
Wyoming	21,206	8,655	.33	.38	5.18	117	20.22
Oregon	**2,291**	**8,360**	**.31**	**.37**	**4.72**	**138**	**23.06**
Wyoming	2,291	8,360	.31	.37	4.72	138	23.06
Pennsylvania	**52,657**	**11,400**	**2.08**	**1.83**	**16.39**	**175**	**39.92**
Montana	130	9,299	.34	.36	4.40	--	--
Ohio	667	12,329	3.13	2.54	9.54	--	--
Pennsylvania	28,994	11,341	1.92	1.69	17.45	--	--
Virginia	39	12,924	1.22	.94	10.55	--	--
West Virginia	7,448	12,699	2.74	2.16	9.92	--	--
Wyoming	1,281	8,764	.32	.36	5.43	--	--
Imported	370	13,118	.72	.55	5.50	--	--
Unclassified	13,726	10,989	2.24	2.04	19.46	--	--
South Carolina	**16,895**	**12,539**	**1.25**	**1.00**	**10.01**	**W**	**W**
Kentucky	12,770	12,485	1.20	.96	10.20	235	58.69
Pennsylvania	1,714	13,043	2.04	1.57	7.87	194	50.48
Tennessee	648	12,947	1.32	1.02	8.62	255	66.15
Virginia	4	13,015	.95	.73	8.40	232	60.26
West Virginia	1,393	12,253	.90	.73	12.35	236	57.76
Imported	350	12,416	.70	.56	6.74	287	71.15
Unclassified	17	12,658	.85	.68	12.60	--	--
South Dakota	**1,616**	**8,530**	**.30**	**.35**	**5.46**	**156**	**26.57**
Wyoming	1,616	8,530	.30	.35	5.46	156	26.57
Tennessee	**29,447**	**11,255**	**1.16**	**1.03**	**8.53**	**W**	**W**
Colorado	3,643	11,973	.60	.50	9.37	165	39.42
Illinois	5,830	12,061	2.73	2.26	8.86	170	41.09
Kentucky	5,349	12,171	1.41	1.16	10.18	217	52.65
Pennsylvania	307	13,031	2.75	2.11	8.79	206	53.60
Utah	755	11,967	.77	.64	10.53	210	50.29
Virginia	2,202	12,816	.85	.66	9.48	228	57.63
West Virginia	3,190	12,347	.95	.77	11.52	256	63.31
Wyoming	8,172	8,782	.28	.32	5.20	159	27.95
Texas	**102,524**	**7,681**	**.60**	**.79**	**9.63**	**W**	**W**
Texas	40,856	6,463	1.03	1.59	16.23	181	21.84
Wyoming	61,668	8,488	.33	.38	5.25	161	27.55
Imported	*	8,296	.37	.44	5.45	120	19.91
Utah	**17,400**	**11,156**	**.58**	**.52**	**13.23**	**W**	**W**
Colorado	1,428	9,793	.56	.57	12.03	188	36.82
Utah	15,971	11,278	.59	.52	13.34	132	30.08
Virginia	**14,746**	**12,531**	**.94**	**.75**	**9.93**	**249**	**62.34**
Colorado	12	12,379	.50	.40	9.00	289	71.43
Kentucky	2,609	12,721	.96	.75	9.47	251	63.33
Ohio	316	11,680	.54	.46	7.97	257	59.95
Virginia	9,201	12,636	1.02	.81	10.51	234	59.00
West Virginia	1,327	12,665	.81	.64	10.33	244	59.76
Imported	1,281	11,458	.51	.44	6.82	264	60.57
Washington	**5,184**	**9,211**	**.34**	**.37**	**4.33**	**W**	**W**
Montana	5,184	9,211	.34	.37	4.33	--	--
West Virginia	**38,839**	**12,046**	**2.04**	**1.70**	**11.98**	**173**	**41.69**
Kentucky	1,403	12,264	1.62	1.32	12.95	196	48.08
Maryland	905	12,026	1.75	1.45	15.56	173	41.61
Montana	293	9,968	.71	.72	4.99	227	45.33
Ohio	5,663	12,560	4.34	3.46	8.66	141	35.36
Pennsylvania	4,006	12,816	1.85	1.44	7.87	184	47.15
Virginia	816	12,109	1.91	1.58	14.96	194	47.08
West Virginia	24,646	11,960	1.68	1.41	13.51	182	43.90
Wyoming	1,108	8,810	.31	.35	5.36	225	39.63
Wisconsin	**23,364**	**8,967**	**.36**	**.40**	**5.44**	**W**	**W**
Colorado	1,057	11,818	.46	.39	10.04	293	70.19
Illinois	152	11,504	1.14	.99	7.14	206	48.99
Indiana	110	11,092	1.28	1.16	8.57	308	68.38
Kentucky	100	11,780	2.88	2.44	9.00	--	--
Montana	675	9,314	.31	.33	4.36	158	29.44
Pennsylvania	16	13,096	2.43	1.86	8.20	252	65.95
Utah	559	12,595	1.03	.82	8.57	264	66.39

Table 15.B. Destination and Origin of Coal to Electric Plants By State: Total (All Sectors), 2007 (Continued)

Destination Origin	Quantity (thousand tons)	Average Quality				Average Delivered Cost (Origin data based on FERC Form423 data only)	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Wisconsin (Continued)							
West Virginia	139	13,116	2.47	1.88	7.85	--	--
Wyoming	20,548	8,635	.30	.34	5.09	154	26.62
Imported	8	11,218	.62	.55	6.10	287	64.30
Wyoming	**26,446**	**8,684**	**.49**	**.57**	**7.37**	**W**	**W**
Wyoming	26,446	8,684	.49	.57	7.37	106	18.53
Total	**1,054,664**	**10,028**	**.96**	**.96**	**8.84**	**177**	**35.48**

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as "*.")

W = Withheld to avoid disclosure of individual company data.

Notes: • Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal. • Receipts, heat value, sulfur, ash and average delivered cost of fuel at the destination reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost of fuel at the origin reflects data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Alabama, Florida, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 16.A. Origin and Destination of Coal to Electric Plants By State: Total (All Sectors), 2008

Origin Destination	Quantity (thousand tons)	Average Quality				Average Delivered Cost	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Alabama	**9,571**	**11,938**	**1.59**	**1.33**	**13.02**	**292**	**69.93**
Alabama	7,891	11,937	1.52	1.27	13.51	290	69.14
Connecticut	44	12,364	.99	.80	12.10	--	--
Georgia	1,079	12,367	1.69	1.36	11.94	303	75.02
Illinois	23	11,137	3.15	2.83	13.16	--	--
Indiana	16	10,799	1.18	1.09	8.81	331	71.52
Iowa	336	10,293	3.20	3.11	7.93	--	--
New Jersey	71	12,626	.85	.67	6.40	--	--
North Carolina	4	12,614	.66	.52	14.55	352	88.82
Ohio	59	13,125	2.32	1.77	7.89	--	--
Virginia	11	12,675	.64	.50	8.60	--	--
Wisconsin	37	11,445	.56	.49	10.90	370	84.69
Alaska	**922**	**8,698**	**.33**	**.38**	**5.83**	**146**	**25.32**
Alaska	922	8,698	.33	.38	5.83	146	25.32
Arizona	**7,958**	**10,841**	**.56**	**.52**	**10.05**	**163**	**35.34**
Arizona	7,958	10,841	.56	.52	10.05	163	35.34
Colorado	**29,831**	**11,171**	**.50**	**.45**	**9.70**	**232**	**51.76**
Alabama	2,945	11,736	.61	.52	9.99	271	63.56
Arizona	1,376	10,209	.36	.35	6.76	238	48.65
Arkansas	70	9,800	.44	.45	5.70	370	72.45
Colorado	10,631	10,641	.45	.43	9.20	160	34.09
Delaware	357	12,157	.53	.43	9.64	--	--
Florida	1,855	11,767	.60	.51	8.77	345	81.16
Georgia	129	12,135	.47	.39	8.61	563	136.75
Indiana	731	12,028	.48	.40	9.90	243	58.56
Iowa	65	11,699	.48	.41	9.48	301	70.52
Kentucky	3,239	11,974	.56	.47	9.70	232	55.50
Michigan	979	11,840	.47	.40	9.75	306	72.28
Mississippi	1,524	11,544	.55	.47	9.25	351	81.07
Nevada	278	12,170	.54	.44	9.74	248	60.27
Oklahoma	114	11,965	.45	.38	9.90	--	--
Tennessee	2,102	12,019	.56	.46	9.30	214	51.33
Utah	2,070	9,392	.43	.45	15.31	203	38.06
Virginia	226	12,192	.56	.46	9.60	264	64.26
Wisconsin	1,140	11,714	.48	.41	10.18	352	82.55
Illinois	**25,645**	**11,423**	**2.69**	**2.36**	**8.89**	**208**	**48.09**
Alabama	808	11,878	2.25	1.90	7.56	238	56.46
Florida	2,896	11,620	2.81	2.42	8.43	225	52.23
Georgia	54	11,573	1.94	1.68	8.97	446	103.29
Illinois	5,138	10,592	3.02	2.85	10.25	182	36.60
Indiana	6,033	11,153	2.42	2.17	8.70	206	46.51
Iowa	370	11,183	2.91	2.60	8.87	269	61.29
Kentucky	1,210	11,784	2.67	2.26	8.51	275	64.74
Michigan	139	11,353	1.45	1.28	9.45	--	--
Minnesota	99	10,939	.94	.86	8.08	393	85.89
Missouri	477	11,243	2.77	2.47	8.61	268	60.10
Ohio	2,345	11,751	2.44	2.08	8.34	216	50.73
Pennsylvania	23	12,225	3.01	2.46	9.00	--	--
Tennessee	5,691	12,085	2.89	2.39	8.72	178	42.96
West Virginia	127	12,030	2.47	2.05	7.57	--	--
Wisconsin	236	11,894	1.52	1.28	7.46	231	54.95
Indiana	**32,597**	**11,138**	**2.54**	**2.28**	**9.21**	**176**	**39.25**
Alabama	363	11,478	.96	.83	6.01	286	65.57
Florida	8	11,771	2.48	2.11	9.62	413	97.25
Georgia	174	12,008	.86	.72	8.11	330	79.24
Illinois	43	10,580	2.36	2.23	8.95	--	--
Indiana	29,128	11,150	2.57	2.31	9.18	171	38.09
Iowa	146	10,987	.98	.89	10.27	276	60.63
Kentucky	2,261	10,858	2.48	2.29	10.17	201	43.58
Michigan	24	11,236	1.12	.99	9.28	--	--
Ohio	370	11,263	3.11	2.77	8.89	182	40.94
South Carolina	24	11,731	3.42	2.91	8.10	236	55.48
Wisconsin	56	11,003	1.35	1.22	8.98	357	78.64
Kansas	**180**	**11,417**	**3.48**	**3.05**	**12.96**	**215**	**49.14**
Kansas	48	10,848	3.71	3.42	15.73	180	38.96

Table 16.A. Origin and Destination of Coal to Electric Plants By State: Total (All Sectors), 2008 (Continued)

Origin Destination	Quantity (thousand tons)	Average Quality				Average Delivered Cost	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Kansas (Continued)							
Missouri	132	11,626	3.39	2.92	11.94	227	52.88
Kentucky	**110,367**	**12,138**	**1.67**	**1.38**	**10.53**	**278**	**67.36**
Alabama	3,344	11,906	2.29	1.92	11.09	294	70.03
Delaware	365	12,498	.72	.58	10.43	--	--
Florida	10,316	12,290	1.88	1.53	9.65	283	69.72
Georgia	17,333	12,398	1.09	.88	10.98	339	84.11
Illinois	205	5,914	2.58	4.36	22.55	131	14.82
Indiana	993	12,066	1.31	1.09	10.97	404	97.28
Iowa	5	11,405	.95	.83	8.00	241	54.94
Kentucky	25,645	11,644	2.67	2.30	10.70	214	50.03
Maryland	603	12,450	1.15	.92	9.36	--	--
Massachusetts	573	12,202	.75	.62	10.11	--	--
Michigan	5,231	12,745	1.35	1.06	8.56	255	65.08
Minnesota	46	12,700	.96	.76	8.80	377	95.76
Mississippi	12	12,360	.68	.55	11.30	329	81.25
Missouri	627	12,202	2.86	2.35	7.98	188	45.82
New Jersey	66	12,505	.74	.59	9.90	--	--
New York	158	12,889	.96	.74	9.64	--	--
North Carolina	11,687	12,376	1.07	.86	10.50	338	83.20
Ohio	9,263	11,730	1.55	1.32	11.82	224	52.54
Pennsylvania	587	12,524	1.25	1.00	9.01	--	--
South Carolina	10,219	12,343	1.34	1.08	10.61	288	70.95
Tennessee	5,073	12,212	1.47	1.20	10.49	247	60.03
Virginia	5,913	12,697	1.06	.84	9.42	269	68.25
West Virginia	2,011	12,126	1.27	1.05	11.06	372	90.41
Wisconsin	92	11,798	2.89	2.45	7.80	--	--
Louisiana	**3,855**	**7,125**	**.75**	**1.05**	**11.56**	**189**	**26.99**
Louisiana	3,855	7,125	.75	1.05	11.56	189	26.99
Maryland	**4,487**	**11,721**	**1.86**	**1.59**	**17.43**	**215**	**50.82**
Maryland	1,138	11,395	1.69	1.49	18.85	--	--
West Virginia	3,349	11,831	1.91	1.62	16.94	215	50.82
Mississippi	**3,018**	**5,068**	**.48**	**.95**	**15.92**	**--**	**--**
Mississippi	3,018	5,068	.48	.95	15.92	--	--
Missouri	**188**	**10,946**	**3.93**	**3.59**	**15.86**	**187**	**40.91**
Kansas	168	10,960	3.93	3.59	15.88	179	39.16
Missouri	21	10,831	3.88	3.58	15.71	255	55.23
Montana	**39,041**	**8,843**	**.51**	**.57**	**7.68**	**151**	**27.35**
Arizona	720	9,369	.36	.38	4.24	181	33.88
Indiana	1,571	9,386	.35	.37	4.14	--	--
Michigan	8,142	9,305	.36	.39	4.77	137	25.53
Minnesota	10,880	8,924	.56	.63	7.67	154	27.43
Montana	11,399	8,386	.69	.82	9.47	134	17.43
New York	260	9,316	.34	.37	4.36	--	--
North Dakota	802	9,297	.36	.39	4.84	124	23.10
Ohio	130	9,461	.34	.35	4.89	--	--
Pennsylvania	195	9,246	.35	.38	4.44	--	--
Texas	28	9,753	.66	.68	9.09	308	60.04
Washington	4,120	8,406	.30	.36	12.09	--	--
West Virginia	232	9,616	.67	.70	5.03	273	52.74
Wisconsin	562	9,334	.31	.33	4.24	237	44.21
New Mexico	**23,436**	**9,279**	**.78**	**.84**	**19.70**	**188**	**34.88**
Arizona	8,017	9,483	.82	.87	15.35	166	31.42
New Mexico	15,419	9,173	.75	.82	21.96	199	36.59
North Dakota	**23,827**	**6,543**	**.75**	**1.15**	**9.88**	**107**	**13.95**
North Dakota	23,827	6,543	.75	1.15	9.88	107	13.95
Ohio	**23,633**	**12,155**	**3.69**	**3.04**	**10.24**	**184**	**44.57**
Florida	255	12,618	4.48	3.55	9.09	450	113.66
Indiana	17	12,113	2.65	2.19	9.08	469	113.59
Kentucky	1,674	11,482	3.83	3.34	14.21	205	47.07
Michigan	280	12,049	2.93	2.43	10.86	301	72.47
New York	15	12,301	3.76	3.06	7.67	350	87.50
Ohio	15,338	12,117	3.57	2.94	10.08	178	43.13
Pennsylvania	1,098	12,235	3.02	2.47	11.33	--	--
West Virginia	4,956	12,463	4.19	3.37	9.21	159	39.64
Oklahoma	**559**	**10,202**	**2.05**	**2.01**	**26.28**	**--**	**--**

Table 16.A. Origin and Destination of Coal to Electric Plants By State: Total (All Sectors), 2008 (Continued)

Origin Destination	Quantity (thousand tons)	Average Quality				Average Delivered Cost	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Oklahoma (Continued)							
Oklahoma	559	10,202	2.05	2.01	26.28	--	--
Pennsylvania	**60,303**	**11,549**	**2.07**	**1.79**	**16.29**	**235**	**60.41**
Delaware	114	12,874	.99	.77	8.57	--	--
Indiana	1,266	13,032	2.30	1.77	7.90	270	70.49
Kentucky	3	13,155	2.66	2.02	8.50	308	81.06
Maryland	2,416	12,927	1.73	1.33	8.24	--	--
Michigan	606	12,752	2.05	1.61	8.35	223	56.93
New Hampshire	340	13,036	1.95	1.49	7.26	356	92.95
New Jersey	1,061	13,058	1.85	1.42	6.96	--	--
New York	1,008	12,529	2.04	1.63	10.80	304	74.17
Ohio	5,241	12,973	2.51	1.94	8.38	212	54.88
Pennsylvania	42,073	10,966	2.05	1.87	19.72	--	--
South Carolina	2,378	12,776	1.90	1.49	8.96	195	49.79
Tennessee	272	13,101	2.84	2.17	8.51	225	59.02
West Virginia	3,377	12,822	1.91	1.49	7.97	259	66.25
Wisconsin	148	13,061	2.50	1.92	7.45	--	--
Tennessee	**1,765**	**12,557**	**1.22**	**.97**	**9.44**	**333**	**83.71**
Alabama	73	11,735	1.54	1.31	15.50	248	58.23
Florida	12	11,695	2.48	2.12	9.40	421	98.40
Georgia	794	12,606	1.22	.97	8.84	373	93.97
Kentucky	73	12,957	1.24	.96	7.36	233	60.45
North Carolina	160	12,649	1.07	.85	8.37	287	72.55
South Carolina	637	12,541	1.20	.96	9.99	306	77.25
Tennessee	16	12,418	1.00	.81	9.68	403	100.01
Texas	**37,925**	**6,514**	**.98**	**1.50**	**16.37**	**213**	**25.90**
Texas	37,925	6,514	.98	1.50	16.37	213	25.90
Utah	**23,403**	**11,488**	**.57**	**.50**	**11.83**	**163**	**37.72**
Alabama	1,790	11,910	.59	.49	11.44	256	61.09
California	1,619	11,666	.57	.49	10.61	--	--
Kentucky	165	11,737	.45	.38	10.63	262	61.57
Michigan	251	12,133	1.10	.91	10.15	355	87.07
Missouri	394	12,160	1.08	.89	9.78	283	68.78
Nebraska	12	11,065	.34	.31	10.00	196	43.46
Nevada	2,247	11,392	.49	.43	10.30	223	50.73
Tennessee	812	12,204	.78	.64	10.74	232	56.65
Utah	15,668	11,339	.54	.48	12.45	128	29.36
Wisconsin	446	12,529	1.07	.85	8.97	274	68.59
Virginia	**11,970**	**12,603**	**1.01**	**.80**	**11.17**	**306**	**76.22**
Alabama	184	12,329	1.17	.95	11.63	470	115.87
Delaware	324	12,646	.97	.77	11.43	--	--
Florida	18	12,538	1.12	.89	8.95	487	122.09
Georgia	2,853	12,477	1.10	.88	11.27	353	87.90
Kentucky	10	13,595	.49	.36	4.10	771	209.55
Mississippi	816	12,718	1.03	.81	10.07	332	84.54
New Hampshire	87	13,955	.66	.47	4.73	328	91.43
New Jersey	858	13,549	.95	.70	6.45	--	--
North Carolina	1,218	11,795	1.04	.88	15.20	320	75.05
Ohio	23	12,445	.69	.55	11.20	--	--
Pennsylvania	21	13,339	2.65	1.98	7.17	--	--
South Carolina	128	12,572	1.11	.88	10.34	385	96.76
Tennessee	1,548	12,852	.93	.72	9.57	311	77.04
Virginia	3,883	12,591	.98	.78	11.92	248	62.32
West Virginia	**100,801**	**12,240**	**1.48**	**1.21**	**11.77**	**271**	**66.11**
Alabama	232	11,838	1.03	.87	14.30	392	92.84
Connecticut	614	12,412	.99	.80	11.60	--	--
Delaware	1,075	12,441	.74	.59	11.16	--	--
Florida	7,411	12,170	.84	.69	11.34	350	84.80
Georgia	1,571	12,220	.79	.64	11.89	364	89.44
Indiana	2,073	12,426	1.55	1.25	10.46	280	69.62
Kentucky	5,189	11,936	1.99	1.66	12.78	228	54.53
Maryland	6,415	12,510	.99	.79	10.88	--	--
Michigan	1,450	12,661	.99	.78	10.76	320	80.77
Mississippi	231	12,394	.84	.68	11.62	328	81.24
New Hampshire	160	13,289	2.63	1.98	7.31	332	88.29
New Jersey	927	12,797	1.50	1.17	9.54	--	--

Table 16.A. Origin and Destination of Coal to Electric Plants By State: Total (All Sectors), 2008 (Continued)

Origin Destination	Quantity (thousand tons)	Average Quality				Average Delivered Cost	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
West Virginia (Continued)							
New York	3,279	13,011	2.80	2.15	8.42	261	69.25
North Carolina	17,724	12,184	.97	.80	12.07	320	77.91
Ohio	13,450	12,103	1.57	1.30	11.30	187	45.71
Pennsylvania	9,527	12,582	2.40	1.90	10.54	--	--
South Carolina	2,122	12,422	.86	.69	11.65	320	79.49
Tennessee	3,082	12,406	1.21	.97	10.99	256	63.44
Virginia	2,406	12,638	.83	.65	10.41	282	70.21
West Virginia	21,851	11,948	1.78	1.49	13.62	230	55.74
Wisconsin	12	10,922	.62	.57	9.60	430	93.91
Wyoming	**452,987**	**8,646**	**.30**	**.35**	**5.18**	**158**	**27.32**
Alabama	13,402	8,708	.29	.33	5.02	178	30.94
Arizona	5,307	8,793	.37	.43	5.10	183	32.15
Arkansas	15,464	8,670	.27	.31	4.93	171	29.64
Colorado	7,865	8,611	.27	.32	4.82	115	19.85
Delaware	45	12,225	.60	.49	12.65	--	--
Florida	64	8,900	.30	.34	4.80	304	54.17
Georgia	14,613	8,529	.28	.33	4.58	206	35.08
Illinois	54,724	8,728	.24	.27	4.80	--	--
Indiana	18,516	8,746	.24	.28	4.89	186	32.53
Iowa	26,001	8,503	.31	.37	5.20	115	19.53
Kansas	21,317	8,521	.35	.41	5.11	141	24.00
Kentucky	1,927	8,846	.29	.33	5.22	184	32.48
Louisiana	11,517	8,530	.29	.34	4.86	269	46.47
Maryland	258	8,816	.25	.29	5.08	--	--
Michigan	20,406	8,874	.26	.30	4.97	171	30.36
Minnesota	7,777	8,794	.30	.34	4.94	177	31.15
Mississippi	1,012	8,738	.21	.24	4.63	258	45.02
Missouri	42,844	8,699	.28	.33	5.10	146	25.38
Montana	673	8,362	.22	.27	4.35	--	--
Nebraska	14,651	8,494	.31	.36	5.17	90	15.33
Nevada	1,240	9,242	.35	.38	7.00	199	37.88
New Jersey	84	8,836	.32	.37	5.34	--	--
New York	3,610	8,862	.28	.31	5.06	--	--
North Dakota	240	7,982	.32	.40	5.07	161	25.65
Ohio	11,641	8,826	.26	.30	5.13	216	38.19
Oklahoma	22,540	8,635	.32	.37	5.11	132	22.81
Oregon	2,655	8,339	.28	.33	4.74	145	24.15
Pennsylvania	1,431	8,797	.35	.40	5.27	--	--
South Dakota	2,257	8,391	.31	.37	5.42	174	29.16
Tennessee	9,775	8,836	.28	.31	5.02	198	34.97
Texas	65,016	8,485	.32	.37	5.24	185	31.53
Utah	405	8,813	.60	.68	6.18	263	46.41
Washington	1,657	8,267	.37	.45	5.51	--	--
West Virginia	2,329	8,980	.37	.41	5.17	201	36.06
Wisconsin	22,665	8,631	.29	.34	5.04	179	30.89
Wyoming	27,058	8,707	.48	.56	7.41	114	19.90
Imported	**27,466**	**11,282**	**.53**	**.47**	**7.00**	**328**	**75.00**
Alabama	5,076	11,441	.55	.48	6.78	402	92.01
Connecticut	1,376	9,166	.10	.11	1.80	--	--
Florida	6,025	11,213	.61	.54	9.39	244	54.74
Georgia	983	11,395	.47	.41	5.56	386	87.89
Hawaii	681	10,669	.66	.62	8.88	--	--
Louisiana	3	9,605	.25	.26	5.10	553	106.29
Maine	243	12,979	.72	.55	6.90	--	--
Maryland	338	11,305	.52	.46	7.29	--	--
Massachusetts	4,018	11,417	.49	.43	6.29	--	--
Mississippi	3,078	11,267	.58	.51	7.98	326	73.57
New Hampshire	873	12,648	.71	.56	6.69	358	90.46
New Jersey	1,414	10,108	.23	.23	3.08	413	105.26
New York	956	12,721	.61	.48	6.75	--	--
North Carolina	360	12,178	.72	.59	6.06	393	95.64
South Carolina	400	12,650	.80	.63	7.36	568	143.60
Virginia	1,643	11,368	.47	.42	7.06	272	61.77
Unclassified	**13,974**	**10,466**	**1.44**	**1.37**	**14.55**	**180**	**36.80**
Alabama	504	11,774	1.23	1.04	10.65	--	--

Table 16.A. Origin and Destination of Coal to Electric Plants By State: Total (All Sectors), 2008 (Continued)

Origin Destination	Quantity (thousand tons)	Average Quality				Average Delivered Cost	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Unclassified (Continued)							
Arkansas	173	11,968	1.68	1.41	10.69	--	--
California	186	11,681	.59	.51	10.67	--	--
Colorado	417	11,262	.50	.44	10.95	165	37.14
Delaware	83	12,444	.73	.59	10.81	--	--
Florida	156	11,926	1.41	1.18	9.82	--	--
Georgia	101	12,345	1.08	.87	10.86	291	71.86
Idaho	198	9,947	.85	.85	7.69	--	--
Illinois	386	10,776	3.07	2.85	9.51	187	40.33
Indiana	735	11,317	2.43	2.15	9.19	190	43.00
Iowa	879	9,270	1.20	1.30	6.27	193	32.74
Kentucky	NM	NM	NM	NM	NM	187	43.73
Louisiana	24	11,342	1.56	1.38	10.80	--	--
Massachusetts	83	11,614	.52	.45	6.89	--	--
Michigan	742	12,528	1.21	.97	9.02	177	44.58
Minnesota	1,058	9,126	.57	.63	7.03	179	32.27
Mississippi	NM	NM	NM	NM	NM	287	66.68
Missouri	299	11,893	2.49	2.09	9.04	180	42.75
Montana	249	6,532	2.37	3.63	43.47	--	--
Nevada	197	9,192	.35	.38	7.22	--	--
New York	219	12,876	2.21	1.72	8.38	188	48.52
North Carolina	241	12,205	1.01	.83	11.74	--	--
North Dakota	294	8,460	.33	.39	5.58	--	--
Ohio	695	11,635	1.86	1.60	10.98	188	45.66
Pennsylvania	2,089	7,182	2.39	3.33	41.91	--	--
South Carolina	NM	NM	NM	NM	NM	--	--
Tennessee	393	12,249	1.68	1.37	9.80	--	--
Virginia	1,431	12,469	.93	.74	10.10	--	--
West Virginia	52	12,250	2.11	1.72	11.77	--	--
Wisconsin	1,157	11,076	.83	.75	8.25	179	36.52
Wyoming	880	10,676	1.20	1.13	9.39	165	28.76
Total	**1,069,709**	**9,947**	**.97**	**.98**	**8.95**	**206**	**41.32**

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: • Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal. • Receipts, heat value, sulfur, ash, and average delivered cost of fuel at the origin reflect data supplied by both regulated and unregulated plants. Average delivered cost of fuel at the destination reflects data supplied by regulated plants only. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Virginia, Florida, Illinois, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. For more information, please see the Technical Notes. • Monetary values are expressed in nominal terms.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report"

Table 16.B. Origin and Destination of Coal to Electric Plants By State: Total (All Sectors), 2007

Origin Destination	Quantity (thousand tons)	Average Quality				Average Delivered Cost (Origin data based on FERC Form423 data only)	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Alabama	**10,392**	**12,008**	**1.43**	**1.19**	**12.57**	**249**	**59.60**
Alabama	9,502	11,996	1.40	1.16	12.64	248	59.30
Georgia	890	12,134	1.80	1.49	11.81	259	62.77
Arizona	**7,937**	**10,894**	**.55**	**.50**	**9.74**	**142**	**31.02**
Arizona	7,937	10,894	.55	.50	9.74	142	31.02
Colorado	**30,596**	**11,220**	**.51**	**.45**	**9.66**	**182**	**40.75**
Alabama	3,134	11,747	.56	.47	9.55	173	40.64
Arizona	1,462	10,370	.36	.35	6.53	221	45.80
California	75	11,702	.53	.45	9.83	--	--
Colorado	11,187	10,587	.48	.45	9.81	141	29.91
Delaware	403	12,068	.48	.40	10.00	--	--
Florida	22	11,917	.44	.37	9.16	264	62.83
Georgia	378	12,081	.41	.34	8.76	306	73.86
Illinois	12	12,290	.46	.37	8.40	--	--
Indiana	809	11,984	.41	.34	10.18	207	49.57
Iowa	136	11,312	.41	.36	7.60	281	63.54
Kentucky	3,210	11,966	.60	.50	9.23	171	40.82
Massachusetts	675	11,994	.44	.37	9.10	--	--
Michigan	770	11,954	.44	.37	9.45	265	63.21
Mississippi	1,639	11,355	.49	.43	11.35	326	74.07
Nevada	312	12,189	.46	.38	9.26	196	47.68
Ohio	142	10,357	.41	.39	9.08	261	54.14
Oklahoma	90	12,000	.39	.33	8.54	--	--
Tennessee	3,643	11,973	.60	.50	9.37	165	39.42
Utah	1,428	9,793	.56	.57	12.03	188	36.82
Virginia	12	12,379	.50	.40	9.00	289	71.43
Wisconsin	1,057	11,818	.46	.39	10.04	293	70.19
Illinois	**28,467**	**11,411**	**2.47**	**2.17**	**8.60**	**180**	**41.70**
Alabama	1,508	11,861	2.14	1.80	7.36	197	46.72
Florida	4,619	11,853	2.25	1.90	7.45	198	46.98
Illinois	6,070	10,706	2.66	2.48	9.67	151	32.33
Indiana	7,102	11,104	2.37	2.13	8.62	173	38.77
Iowa	677	10,906	2.93	2.69	8.47	228	51.94
Kentucky	417	11,841	2.72	2.29	7.90	169	40.07
Minnesota	117	10,767	.97	.90	8.03	388	83.62
Missouri	1,139	11,399	2.51	2.20	8.29	204	47.03
Ohio	837	11,633	2.04	1.75	8.75	199	46.37
Tennessee	5,830	12,061	2.73	2.26	8.86	170	41.09
Wisconsin	152	11,504	1.14	.99	7.14	206	48.99
Indiana	**30,675**	**11,165**	**2.47**	**2.21**	**8.97**	**145**	**32.35**
Alabama	563	11,521	.85	.74	6.13	238	54.73
Illinois	55	10,850	1.75	1.61	7.80	--	--
Indiana	28,331	11,176	2.52	2.26	8.99	140	31.24
Kentucky	1,583	10,895	2.29	2.10	9.77	187	40.70
Massachusetts	21	9,350	.09	.10	1.40	--	--
Minnesota	12	10,783	.86	.80	8.03	449	96.86
Wisconsin	110	11,092	1.28	1.16	8.57	308	68.38
Kansas	**525**	**11,118**	**3.84**	**3.45**	**15.38**	**170**	**37.76**
Kansas	374	11,034	3.93	3.57	15.97	175	38.63
Missouri	150	11,328	3.59	3.17	13.89	157	35.62
Kentucky	**111,249**	**12,183**	**1.64**	**1.34**	**10.56**	**228**	**55.54**
Alabama	1,881	11,643	3.31	2.85	12.20	155	36.02
Delaware	757	12,521	.64	.51	10.08	--	--
Florida	13,893	12,401	1.68	1.36	9.57	257	63.84
Georgia	16,418	12,399	1.11	.90	10.69	281	69.62
Illinois	385	11,030	2.44	2.21	17.74	126	27.45
Indiana	181	12,617	1.74	1.38	8.51	222	56.28
Iowa	66	12,800	1.00	.78	10.00	374	95.74
Kentucky	25,885	11,697	2.65	2.26	10.55	171	40.29
Maryland	172	12,160	.84	.69	11.03	--	--
Massachusetts	40	12,140	.86	.71	11.00	--	--
Michigan	5,254	12,765	1.34	1.05	8.42	235	60.02
Minnesota	65	12,676	.89	.70	8.78	344	87.28
Mississippi	943	12,470	1.08	.86	11.37	311	77.66
Missouri	278	12,505	2.61	2.09	7.39	223	55.66

Table 16.B. Origin and Destination of Coal to Electric Plants By State: Total (All Sectors), 2007 (Continued)

Origin Destination	Quantity (thousand tons)	Average Quality				Average Delivered Cost (Origin data based on FERC Form423 data only)	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Kentucky (Continued)							
New Jersey	58	12,427	.67	.54	10.10	--	--
New York	19	12,610	1.09	.86	9.80	--	--
North Carolina	10,171	12,476	.94	.76	10.84	284	70.54
Ohio	12,550	11,811	1.37	1.16	12.28	173	40.76
South Carolina	12,770	12,485	1.20	.96	10.20	235	58.69
Tennessee	5,349	12,171	1.41	1.16	10.18	217	52.65
Virginia	2,609	12,721	.96	.75	9.47	251	63.33
West Virginia	1,403	12,264	1.62	1.32	12.95	196	48.08
Wisconsin	100	11,780	2.88	2.44	9.00	--	--
Louisiana	**3,068**	**6,855**	**.73**	**1.07**	**13.02**	**164**	**22.48**
Louisiana	3,068	6,855	.73	1.07	13.02	164	22.48
Maryland	**1,875**	**11,985**	**1.70**	**1.42**	**15.73**	**173**	**41.61**
Maryland	970	11,948	1.65	1.38	15.88	--	--
West Virginia	905	12,025	1.75	1.45	15.56	173	41.61
Mississippi	**3,387**	**5,100**	**.47**	**.92**	**16.09**	**--**	**--**
Mississippi	3,387	5,100	.47	.92	16.09	--	--
Missouri	**22**	**10,831**	**3.57**	**3.29**	**14.07**	**188**	**40.73**
Kansas	16	11,358	4.14	3.65	15.70	166	37.73
Missouri	6	9,313	1.91	2.05	9.36	265	49.38
Montana	**41,846**	**8,973**	**.48**	**.54**	**6.71**	**123**	**22.43**
Arizona	599	9,303	.34	.37	4.39	161	30.00
Indiana	1,647	9,439	.33	.35	4.13	--	--
Michigan	9,811	9,360	.35	.38	4.59	107	19.96
Minnesota	11,858	8,879	.55	.62	7.93	132	23.50
Montana	10,703	8,432	.64	.76	9.38	111	14.77
North Dakota	891	9,349	.33	.36	4.67	107	19.93
Ohio	56	9,307	.32	.34	4.27	--	--
Pennsylvania	130	9,299	.34	.36	4.40	--	--
Washington	5,184	9,211	.34	.37	4.33	--	--
West Virginia	293	9,968	.71	.72	4.99	227	45.33
Wisconsin	675	9,314	.31	.33	4.36	158	29.44
New Mexico	**23,622**	**9,309**	**.75**	**.81**	**20.12**	**173**	**32.09**
Arizona	7,611	9,542	.72	.75	16.04	159	30.36
New Mexico	16,012	9,198	.77	.84	22.06	179	32.87
North Dakota	**23,789**	**6,504**	**.76**	**1.17**	**10.12**	**97**	**12.66**
North Dakota	23,789	6,504	.76	1.17	10.12	97	12.66
Ohio	**26,106**	**12,243**	**3.36**	**2.74**	**9.38**	**145**	**35.42**
Indiana	1,339	11,452	2.05	1.79	7.27	151	34.49
Kentucky	868	11,155	4.11	3.68	15.96	141	31.39
Michigan	288	11,871	2.97	2.50	11.44	220	52.46
New Jersey	9	12,635	2.83	2.24	7.50	--	--
New York	61	12,869	3.18	2.47	8.44	--	--
Ohio	16,896	12,266	3.16	2.58	9.44	142	35.01
Pennsylvania	667	12,329	3.13	2.54	9.54	--	--
Virginia	316	11,680	.54	.46	7.97	257	59.95
West Virginia	5,663	12,560	4.34	3.46	8.66	141	35.36
Oklahoma	**769**	**10,572**	**2.62**	**2.48**	**24.44**	**--**	**--**
Illinois	2	10,500	3.80	3.62	19.00	--	--
Oklahoma	766	10,572	2.61	2.47	24.46	--	--
Pennsylvania	**49,041**	**11,980**	**1.96**	**1.64**	**13.61**	**201**	**51.91**
Alabama	*	13,000	2.83	2.18	9.00	208	54.03
Delaware	236	12,661	1.08	.86	10.28	--	--
Florida	215	12,993	2.14	1.65	7.61	252	65.46
Indiana	1,276	13,061	2.34	1.80	8.06	207	54.07
Kentucky	5	13,068	2.47	1.89	8.60	178	46.44
Maryland	3,079	12,841	1.84	1.44	8.15	--	--
Michigan	810	12,767	2.18	1.71	8.78	207	52.98
New Hampshire	649	12,979	1.90	1.46	7.40	318	82.50
New Jersey	844	13,073	1.82	1.39	7.18	--	--
New York	1,936	12,858	2.28	1.77	8.59	228	58.44
Ohio	4,953	12,924	2.15	1.67	8.04	177	46.46
Pennsylvania	28,994	11,341	1.92	1.69	17.45	--	--
South Carolina	1,714	13,043	2.04	1.57	7.87	194	50.48
Tennessee	307	13,031	2.75	2.11	8.79	206	53.60
West Virginia	4,006	12,816	1.85	1.44	7.87	184	47.15

Table 16.B. Origin and Destination of Coal to Electric Plants By State: Total (All Sectors), 2007 (Continued)

Origin Destination	Quantity (thousand tons)	Average Quality				Average Delivered Cost (Origin data based on FERC Form423 data only)	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Pennsylvania (Continued)							
Wisconsin	16	13,096	2.43	1.86	8.20	252	65.95
Tennessee	**1,696**	**12,786**	**1.22**	**.95**	**8.50**	**272**	**69.64**
Georgia	343	12,758	1.15	.90	7.92	290	73.93
Kentucky	173	12,587	1.28	1.02	8.97	228	57.49
North Carolina	532	12,673	1.11	.88	8.57	296	75.08
South Carolina	648	12,947	1.32	1.02	8.62	255	66.15
Texas	**40,856**	**6,463**	**1.03**	**1.59**	**16.23**	**181**	**21.84**
Texas	40,856	6,463	1.03	1.59	16.23	181	21.84
Utah	**21,859**	**11,439**	**.60**	**.53**	**12.36**	**152**	**35.09**
Alabama	631	11,890	.74	.62	10.75	217	51.55
California	1,083	11,879	.60	.50	9.57	--	--
Iowa	56	10,976	.36	.33	10.97	288	63.31
Michigan	66	12,737	.95	.75	8.30	--	--
Missouri	336	12,327	.97	.79	9.39	283	69.84
Nevada	2,401	11,606	.49	.42	9.56	192	44.67
Tennessee	755	11,967	.77	.64	10.53	210	50.29
Utah	15,971	11,278	.59	.52	13.34	132	30.08
Wisconsin	559	12,595	1.03	.82	8.57	264	66.39
Virginia	**20,212**	**12,592**	**1.03**	**.82**	**11.01**	**251**	**62.93**
Connecticut	47	13,462	.73	.55	6.31	--	--
Delaware	396	12,639	.88	.70	11.47	--	--
Florida	135	12,876	.74	.57	9.10	275	70.78
Georgia	5,674	12,585	1.04	.83	11.30	286	71.99
Maryland	39	11,574	.93	.81	15.39	--	--
Michigan	5	13,180	.73	.55	8.58	--	--
Mississippi	282	12,697	1.06	.83	10.23	283	71.80
New Hampshire	102	14,057	.71	.50	4.78	283	79.58
New Jersey	43	13,482	.70	.52	5.20	--	--
North Carolina	1,227	11,967	.87	.72	14.60	250	59.34
Pennsylvania	39	12,924	1.22	.94	10.55	--	--
South Carolina	4	13,015	.95	.73	8.40	232	60.26
Tennessee	2,202	12,816	.85	.66	9.48	228	57.63
Virginia	9,201	12,636	1.02	.81	10.51	234	59.00
West Virginia	816	12,109	1.91	1.58	14.96	194	47.08
West Virginia	**101,644**	**12,262**	**1.38**	**1.12**	**11.73**	**227**	**55.55**
Connecticut	648	12,240	1.08	.88	11.67	--	--
Delaware	615	12,700	.77	.61	10.53	--	--
Florida	4,752	12,474	.74	.59	11.85	318	79.64
Georgia	994	12,242	1.07	.88	12.15	323	79.49
Illinois	6	13,600	.87	.64	7.00	--	--
Indiana	2,871	12,582	1.68	1.33	10.01	177	44.52
Kentucky	6,610	12,141	1.44	1.18	11.84	206	50.01
Maryland	7,435	12,490	.99	.79	10.73	--	--
Michigan	2,091	12,639	.89	.70	10.27	251	63.25
New Hampshire	186	13,161	2.73	2.08	7.96	285	75.13
New Jersey	2,708	11,495	.63	.55	5.93	--	--
New York	3,118	13,056	2.39	1.83	8.34	235	60.66
North Carolina	20,507	12,338	1.05	.85	11.76	272	66.97
Ohio	10,960	12,013	1.07	.89	12.88	189	45.48
Pennsylvania	7,448	12,699	2.74	2.16	9.92	--	--
South Carolina	1,393	12,253	.90	.73	12.35	236	57.76
Tennessee	3,190	12,347	.95	.77	11.52	256	63.31
Virginia	1,327	12,665	.81	.64	10.33	244	59.76
West Virginia	24,646	11,960	1.68	1.41	13.51	182	43.90
Wisconsin	139	13,116	2.47	1.88	7.85	--	--
Wyoming	**429,508**	**8,648**	**.31**	**.36**	**5.20**	**142**	**24.52**
Alabama	14,369	8,771	.31	.35	5.07	166	29.14
Arizona	3,975	8,765	.41	.47	5.32	159	27.82
Arkansas	14,906	8,712	.26	.30	4.86	155	26.98
Colorado	8,641	8,612	.29	.33	4.80	103	17.70
Georgia	15,363	8,582	.28	.33	4.66	199	34.18
Illinois	51,946	8,739	.25	.29	4.85	128	22.52
Indiana	16,326	8,751	.25	.28	4.91	183	32.10
Iowa	21,654	8,511	.33	.38	5.09	102	17.28
Kansas	23,993	8,542	.35	.41	5.08	122	20.83

Table 16.B. Origin and Destination of Coal to Electric Plants By State: Total (All Sectors), 2007 (Continued)

Origin Destination	Quantity (thousand tons)	Average Quality				Average Delivered Cost (Origin data based on FERC Form423 data only)	
		Heat Value (Btu per pound)	Sulfur (percent by weight)	Sulfur (pounds per Million Btu)	Ash (percent by weight)	(cents per million Btu)	(dollars per ton)
Wyoming (Continued)							
Kentucky	1,313	8,859	.31	.35	5.51	147	26.03
Louisiana	13,510	8,549	.31	.36	4.88	230	40.11
Michigan	17,675	8,792	.25	.28	4.99	156	27.45
Minnesota	7,831	8,751	.29	.33	5.04	171	29.96
Mississippi	152	8,823	.30	.34	5.63	252	44.47
Missouri	43,935	8,700	.29	.34	5.10	128	22.26
Montana	776	8,345	.24	.29	4.41	--	--
Nebraska	12,780	8,511	.31	.37	5.06	88	14.96
Nevada	858	9,500	.38	.40	8.58	170	32.33
New Jersey	12	8,902	.24	.27	4.70	--	--
New York	3,852	8,888	.27	.30	5.30	--	--
North Dakota	252	8,033	.35	.43	5.07	140	22.56
Ohio	11,050	8,808	.28	.32	5.32	194	34.28
Oklahoma	21,206	8,655	.33	.38	5.18	117	20.22
Oregon	2,291	8,360	.31	.37	4.72	138	23.06
Pennsylvania	1,281	8,764	.32	.36	5.43	--	--
South Dakota	1,616	8,530	.30	.35	5.46	156	26.57
Tennessee	8,172	8,782	.28	.32	5.20	159	27.95
Texas	61,668	8,488	.33	.38	5.25	161	27.55
West Virginia	1,108	8,810	.31	.35	5.36	225	39.63
Wisconsin	20,548	8,635	.30	.34	5.09	154	26.62
Wyoming	26,446	8,684	.49	.57	7.37	106	18.53
Imported	**30,611**	**11,475**	**.55**	**.47**	**6.37**	**262**	**60.46**
Alabama	6,298	11,534	.57	.50	5.56	239	55.23
Arkansas	269	9,008	.17	.19	3.52	456	82.16
Connecticut	1,313	9,207	.09	.09	1.57	--	--
Florida	7,931	11,517	.62	.54	7.96	250	57.55
Georgia	1,620	11,745	.52	.44	5.50	328	77.12
Hawaii	704	10,871	.47	.43	5.47	--	--
Iowa	3	11,218	.62	.55	6.10	287	64.30
Louisiana	178	9,280	.37	.40	3.33	429	79.59
Maine	267	13,170	.65	.50	6.37	--	--
Maryland	93	8,962	.23	.26	1.89	--	--
Massachusetts	3,958	11,533	.45	.39	5.63	--	--
Mississippi	3,562	11,233	.59	.53	8.03	276	61.91
New Hampshire	560	13,069	.79	.61	6.05	260	67.88
New Jersey	343	11,894	.52	.44	4.55	369	96.94
New York	1,013	12,775	.59	.46	6.37	--	--
North Carolina	491	12,426	.58	.47	6.00	291	72.25
Pennsylvania	370	13,118	.72	.55	5.50	--	--
South Carolina	350	12,416	.70	.56	6.74	287	71.15
Texas	*	8,296	.37	.44	5.45	120	19.91
Virginia	1,281	11,458	.51	.44	6.82	264	60.57
Wisconsin	8	11,218	.62	.55	6.10	287	64.30
Unclassified	**14,915**	**11,022**	**2.17**	**1.97**	**18.48**	**--**	**--**
Michigan	244	10,629	1.00	.94	8.15	--	--
Ohio	928	11,588	1.46	1.26	6.73	--	--
Pennsylvania	13,726	10,989	2.24	2.04	19.46	--	--
South Carolina	17	12,658	.85	.68	12.60	--	--
Total	**1,054,664**	**10,028**	**.96**	**.96**	**8.84**	**178**	**36.06**

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as "*.")

Notes: • Includes anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal. • Receipts, heat value, sulfur, and ash reflect data supplied via both the Form EIA-423 and the FERC Form 423. Average delivered cost of fuel reflects data supplied via the FERC Form 423 only. • Totals may not equal sum of components because of independent rounding. • The cost of coal receipts displayed for the States of Alabama, Florida, Kentucky, and Tennessee does not represent the total average delivered cost of coal for these States and their respective Census Divisions. In some instances, coal is delivered to a transfer facility prior to being delivered to the power plant. The costs presented in this table reflect the initial delivery costs, not any additional costs incurred to deliver the coal from the transfer facility to the power plant site. • Monetary values are expressed in nominal terms.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Relative Standard Error.

Table A1. Relative Standard Error for Receipts and Average Delivered Cost by Fuel Type: Total (All Sectors) by Census Division and State, 2008

Census Division and State	Coal		Distillate Fuel Oil		Residual Fuel Oil		Petroleum Liquids		Petroleum Coke		Natural Gas	
	Receipts	Cost	Receipts	Cost	Receipts	Cost	Receipts	Cost	Receipts	Cost	Receipts	Cost
New England	*	0	7	*	3	*	3	*	--	--	*	--
Connecticut	--	--	13	*	7	*	7	*	--	--	1	0
Maine	--	--	39	2	10	*	9	*	--	--	*	--
Massachusetts	*	0	6	*	2	*	2	*	--	--	*	--
New Hampshire	--	--	22	2	13	1	12	1	--	--	*	0
Rhode Island	--	--	27	4	139	89	42	8	--	--	1	0
Vermont	--	--	104	24	660	2,129	93	30	--	--	--	--
Middle Atlantic	*	--	3	0	1	*	1	*	7	2	*	--
New Jersey	--	--	10	*	--	--	2	*	--	--	*	--
New York	*	0	5	*	1	*	1	*	--	--	*	--
Pennsylvania	*	0	2	*	10	-1	5	*	11	7	*	--
East North Central	*	--	1	*	20	2	5	*	5	2	*	0
Illinois	*	--	3	*	--	--	3	*	--	--	1	0
Indiana	*	--	3	*	2	*	2	*	--	--	1	0
Michigan	*	0	4	*	15	1	5	*	19	14	*	0
Ohio	*	--	1	0	--	--	1	0	9	6	3	*
Wisconsin	*	--	3	0	44	8	26	3	2	1	1	*
West North Central	*	0	2	*	52	15	8	*	3	2	*	0
Iowa	*	0	4	*	--	--	5	*	8	11	*	0
Kansas	--	--	9	*	--	--	9	*	--	--	*	0
Minnesota	*	*	6	*	72	27	21	2	--	--	1	*
Missouri	*	--	6	*	--	--	6	*	--	--	1	0
Nebraska	--	--	7	*	--	--	5	*	--	--	1	*
North Dakota	*	0	6	*	111	57	36	6	--	--	315	1,676
South Dakota	--	--	8	1	--	--	8	1	--	--	2	*
South Atlantic	*	--	2	0	8	1	7	*	--	--	*	--
Delaware	1	0	2	*	16	1	7	*	--	--	*	0
District of Columbia	--	--	--	--	--	--	--	--	--	--	--	--
Florida	*	--	3	*	3	*	3	*	--	--	*	--
Georgia	*	--	7	*	10	1	6	*	--	--	1	0
Maryland	--	--	2	*	4	*	2	*	--	--	3	0
North Carolina	*	--	4	*	166	271	101	101	--	--	1	0
South Carolina	*	--	3	*	--	--	1	*	--	--	*	0
Virginia	1	0	3	*	25	6	17	3	--	--	1	0
West Virginia	*	--	--	--	--	--	--	--	--	--	10	*
East South Central	*	--	3	*	18	-1	7	*	--	--	*	0
Alabama	*	--	7	*	34	11	13	1	--	--	1	0
Kentucky	*	--	1	0	--	--	1	0	--	--	5	*
Mississippi	*	0	33	4	--	--	7	1	--	--	*	0
Tennessee	*	--	3	*	70	-58	15	-1	--	--	9	*
West South Central	*	--	3	*	10	1	9	1	2	*	*	--
Arkansas	*	0	9	*	16	10	28	9	--	--	1	0
Louisiana	*	--	2	*	12	1	10	1	3	*	*	--
Oklahoma	--	--	28	3	--	--	10	1	--	--	*	--
Texas	--	--	3	*	--	--	23	3	3	*	*	--
Mountain	*	--	4	*	227	241	5	*	--	--	*	0
Arizona	--	--	3	*	--	--	3	*	--	--	*	0
Colorado	*	0	18	3	--	--	21	3	--	--	*	0
Idaho	14	6	422	1,263	--	--	422	1,263	--	--	1	*
Montana	*	*	9	1	872	3,533	9	1	--	--	9	2
Nevada	1	*	11	1	--	--	11	1	--	--	*	--
New Mexico	--	--	1	0	--	--	1	0	--	--	*	*
Utah	--	--	15	2	--	--	15	2	--	--	1	*
Wyoming	*	0	6	*	235	258	23	3	--	--	3	*
Pacific Contiguous	*	0	6	-1	52	-26	12	*	9	3	*	0
California	1	*	7	-1	--	--	3	-1	9	3	*	0
Oregon	--	--	--	--	164	-352	75	-32	--	--	*	--
Washington	--	--	16	2	--	--	26	3	--	--	*	0
Pacific Noncontiguous	5	*	2	*	2	*	2	*	--	--	1	*
Alaska	8	*	7	*	16	1	4	*	--	--	1	*
Hawaii	3	*	2	*	2	*	2	*	--	--	--	--
U.S. Total	*	--	1	0	3	*	3	*	2	*	*	--

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" and values under 0.5 are shown as "*.")

Notes: • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Beginning in 2008, receipts and average delivered costs are imputed for plants under 50 MW. Purchase type, mine type, and coal origin state are unavailable for these data.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Report;"

Table A2. Relative Standard Error for Receipts and Average Delivered Cost with Unclassified Purchase Type: Total (All Sectors) by Census Division and State, 2008

Census Division and State	Coal		Distillate Fuel Oil		Residual Fuel Oil		Petroleum Coke		Natural Gas	
	Receipts	Cost	Receipts	Cost	Receipts	Cost	Receipts	Cost	Receipts	Cost
New England	**15**	--	**27**	**14**	**20**	--	--	--	**8**	--
Connecticut	--	--	81	--	106	--	--	--	12	--
Maine	--	--	65	--	22	--	--	--	133	--
Massachusetts	15	--	56	--	68	--	--	--	12	--
New Hampshire	--	--	98	178	64	--	--	--	46	--
Rhode Island	--	--	48	--	139	--	--	--	23	--
Vermont	--	--	104	--	660	--	--	--	--	--
Middle Atlantic	**6**	--	**12**	**3**	**24**	--	**60**	--	**6**	--
New Jersey	--	--	38	26	--	--	--	--	10	--
New York	23	--	14	4	16	--	--	--	7	--
Pennsylvania	6	--	31	--	51	--	60	--	18	--
East North Central	**4**	--	**23**	**12**	**42**	**32**	**15**	--	**4**	--
Illinois	12	--	92	157	--	--	--	--	19	--
Indiana	7	--	89	146	4,286	--	--	--	14	--
Michigan	8	--	26	16	132	--	27	--	4	--
Ohio	16	--	159	479	--	--	19	--	13	--
Wisconsin	6	--	80	162	44	--	31	--	5	--
West North Central	**4**	--	**25**	**14**	**72**	--	**33**	--	**6**	--
Iowa	6	--	48	57	--	--	33	--	27	--
Kansas	--	--	89	145	--	--	--	--	6	--
Minnesota	8	--	39	39	95	--	--	--	6	--
Missouri	11	--	78	112	--	--	--	--	15	--
Nebraska	--	--	96	228	--	--	--	--	23	--
North Dakota	8	--	91	--	111	--	--	--	818	--
South Dakota	--	--	78	--	--	--	--	--	19	--
South Atlantic	**5**	--	**25**	**12**	**108**	--	--	--	**7**	--
Delaware	15	--	143	--	143	--	--	--	28	--
District of Columbia	--	--	--	--	--	--	--	--	--	--
Florida	17	--	93	--	98	--	--	--	12	--
Georgia	20	--	48	47	60	--	--	--	18	--
Maryland	--	--	64	--	349	--	--	--	10	--
North Carolina	13	--	128	--	222	--	--	--	40	--
South Carolina	66	--	85	--	--	--	--	--	67	--
Virginia	6	--	26	14	193	--	--	--	17	--
West Virginia	19	--	--	--	--	--	--	--	33	--
East South Central	**6**	--	**20**	**8**	**55**	--	--	--	**8**	--
Alabama	10	--	23	11	88	--	--	--	12	--
Kentucky	227	--	219	--	--	--	--	--	16	--
Mississippi	58	--	43	35	--	--	--	--	17	--
Tennessee	7	--	70	--	70	--	--	--	26	--
West South Central	**15**	--	**99**	**179**	**66**	--	**28**	--	**4**	--
Arkansas	16	--	163	--	466	--	--	--	11	--
Louisiana	42	--	401	--	66	--	34	--	9	--
Oklahoma	--	--	210	796	--	--	--	--	26	--
Texas	--	--	168	--	--	--	51	--	4	--
Mountain	**7**	--	**25**	**15**	**227**	--	--	--	**5**	--
Arizona	--	--	130	--	--	--	--	--	27	--
Colorado	9	--	43	48	--	--	--	--	17	--
Idaho	14	--	422	--	--	--	--	--	9	--
Montana	24	--	136	--	872	--	--	--	14	--
Nevada	27	--	91	--	--	--	--	--	557	--
New Mexico	--	--	512	--	--	--	--	--	13	--
Utah	--	--	36	--	--	--	--	--	9	--
Wyoming	10	--	99	--	235	--	--	--	7	--
Pacific Contiguous	**14**	--	**13**	--	**246**	--	**10**	--	**2**	--
California	14	--	12	--	--	--	10	--	3	--
Oregon	--	--	--	--	246	--	--	--	12	--
Washington	--	--	58	--	--	--	--	--	9	--
Pacific Noncontiguous	**7**	--	**7**	--	**17**	--	--	--	**6**	--
Alaska	8	--	8	--	146	--	--	--	6	--
Hawaii	21	--	12	--	18	--	--	--	--	--
U.S. Total	**2**	--	**6**	**1**	**31**	**11**	**8**	--	**2**	--

Notes: • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Beginning in 2008, receipts and average delivered costs are imputed for plants under 50 MW. Purchase type, mine type, and coal origin state are unavailable for these data.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Report;"

Table A3. Relative Standard Error for Receipts and Average Delivered Cost of Coal: Total (All Sectors) by Census Division and State, 2008

Census Division and State	Unclassified Origin State		Unclassified Mine State	
	Receipts	Cost	Receipts	Cost
New England	**15**	**--**	**15**	**--**
Connecticut	--	--	--	--
Maine	--	--	--	--
Massachusetts	15	--	15	--
New Hampshire	--	--	--	--
Rhode Island	--	--	--	--
Vermont	--	--	--	--
Middle Atlantic	**5**	**--**	**5**	**--**
New Jersey	--	--	--	--
New York	21	--	23	--
Pennsylvania	6	--	6	--
East North Central	**3**	**--**	**3**	**--**
Illinois	12	--	12	--
Indiana	7	--	7	--
Michigan	8	--	8	--
Ohio	9	--	9	--
Wisconsin	6	--	6	--
West North Central	**4**	**--**	**4**	**--**
Iowa	6	--	6	--
Kansas	--	--	--	--
Minnesota	8	--	8	--
Missouri	11	--	11	--
Nebraska	--	--	--	--
North Dakota	8	--	8	--
South Dakota	--	--	--	--
South Atlantic	**5**	**--**	**5**	**--**
Delaware	15	--	10	--
District of Columbia	--	--	--	--
Florida	17	--	12	--
Georgia	20	--	20	--
Maryland	--	--	--	--
North Carolina	13	--	13	--
South Carolina	66	--	66	--
Virginia	6	--	6	--
West Virginia	19	--	19	--
East South Central	**6**	**--**	**6**	**--**
Alabama	10	--	9	--
Kentucky	227	--	44	--
Mississippi	58	--	58	--
Tennessee	7	--	7	--
West South Central	**15**	**--**	**15**	**--**
Arkansas	16	--	16	--
Louisiana	42	--	42	--
Oklahoma	--	--	--	--
Texas	--	--	--	--
Mountain	**7**	**--**	**7**	**--**
Arizona	--	--	--	--
Colorado	9	--	9	--
Idaho	14	--	14	--
Montana	24	--	24	--
Nevada	27	--	27	--
New Mexico	--	--	--	--
Utah	--	--	--	--
Wyoming	10	--	10	--
Pacific Contiguous	**14**	**--**	**14**	**--**
California	14	--	14	--
Oregon	--	--	--	--
Washington	--	--	--	--
Pacific Noncontiguous	**7**	**--**	**7**	**--**
Alaska	8	--	8	--
Hawaii	21	--	21	--
U.S. Total	**2**	**--**	**2**	**--**

Notes: • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Beginning in 2008, receipts and average delivered costs are imputed for plants under 50 MW. Purchase type, mine type, and coal origin state are unavailable for these data.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Report;"

Appendix
Technical Notes

This appendix describes how the U.S. Energy Information Administration (EIA) collects, estimates, and reports electric power data in the *Cost and Quality of Fossil Fuels for Electric Plants* reports. Following is a description of the ongoing data quality efforts and sources of data.

Data Quality

The *Cost and Quality of Fossil Fuels for Electric Plants* is prepared by the Electric Power Division, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), EIA, U.S. Department of Energy (DOE). The CNEAF office performs routine reviews of the data collected and the forms on which they are collected. Additionally, to assure that the data are collected from the complete set of respondents, CNEAF routinely reviews the frames for each data collection.

Unified Data Submission Process

Data submitted to EIA are either received on paper forms or entered directly by respondents into CNEAF's Internet Data Collection (IDC) System. Hard copy forms are keyed by EIA into the IDC. All data are subject to review via edits built into the IDC, additional quality assurance reports, and review by subject matter experts. Questionable data values are verified through contacts with respondents. Also, survey non-respondents are identified and contacted.

Initial edit checks of the data are performed through the IDC by the respondent. Other program edits include both deterministic checks, in which records are checked for the presence of data in required fields, and statistical checks, in which the data are checked against a range of values based on historical data values and for logical or mathematical consistency with data elements reported in the survey. Discrepancies found in the data, as a result of these checks, are resolved either by the processing staff or by further information obtained from a telephone call to the respondent.

Those respondents unable to use the electronic reporting method provide the data in hard copy, typically via fax and email. These data are manually entered into the computerized database and are subjected to the same data edits as those that are electronically submitted. Resolution of questionable data is accomplished via telephone or email contact with the respondents.

Reliability of Data

Survey data have non-sampling errors. Non-sampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse); (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data; and (6) other errors of collection, response, coverage, and estimation for missing data. Although no direct measurement of the biases due to non-sampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence.

Data Revision Procedure

CNEAF has adopted the following procedures with respect to the revision of data disseminated in energy data products:

- Annual survey data are disseminated either as preliminary or final when first appearing in a data product. Data initially released as preliminary will be so noted in the data product. These data are typically released as final by the next dissemination of the same product; however, if final data are available at an earlier interval they may be released in another product.
- After data are disseminated as final, further revisions will be considered if they make a difference of 1 percent or greater at the national level. Revisions for differences that do not meet the 1 percent or greater threshold will be determined by the Office Director. In either case, the proposed revision will be subject to the EIA revision policy concerning how it affects other EIA products.
- The magnitudes of changes due to revisions experienced in the past will be included periodically in the data products, so that the reader can assess the accuracy of the data..

The *Cost and Quality of Fossil Fuels for Electric Plants 2007 and 2008* presents the most current annual data available to the EIA. The statistics may differ from those published previously in EIA publications due to corrections, revisions, or other adjustments to the data subsequent to its original release but will be consistent with the *Electric Power Annual 2008*.

Rounding and Percent Change Calculations

Rounding Rules for Data. To round a number to n digits (decimal places), add one unit to the nth digit if the (n+1) digit is 5 or larger and keep the nth digit unchanged if the (n+1) digit is less than 5. The symbol for a number rounded to zero is (*).

Percent Change. The following formula is used to calculate percent differences:

$$\text{Percent Change} = \left(\frac{x\,(t_2) - x\,(t_1)}{x\,(t_1)} \right) x\,100,$$

where x (t_1) and x (t_2) denote the quantity at year t_1 and subsequent year t_2.

Data Sources for the Cost and Quality of Fossil Fuels for Electric Plants

Data published in the report are compiled from forms filed monthly and annually by electric utilities and electricity generators. The current applicable EIA form is Form EIA-923, "Power Plant Operations Report", which began collection in 2008. Previously, cost and quality of fuels data were collected on Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." 2007 data from Form EIA-423 appear in this publication.

Survey data from the Federal Energy Regulatory Commission are also utilized for this publication, for the 2007 data year. This information is derived from the FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Understanding the effect of the restructuring of the electricity industry is important when reviewing data presented in this publication. Since January 1998, many electric utilities have sold their plants or created subsidiaries whose assets are not regulated by state public utility commissions. Once a plant becomes the property of such an entity, it is no longer required to file on the FERC Form 423. The EIA has attempted to capture the data from these unregulated entities on the Form EIA-423, which originated in 2002. The respondents from both the FERC Form 423 and the Form EIA-423 now submit Form EIA-923.

Form EIA-423

The Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," collected information from selected electric generating plants in the United States. The data collected on this survey included the cost and quality of fossil fuels delivered to nonutility plants to produce electricity and generate useful thermal output. These plants include independent power producers (including those facilities that formerly reported on the FERC Form 423) and commercial and industrial combined heat and power producers whose total fossil-fueled nameplate generating capacity is 50 or more megawatts. The Form EIA-423 survey respondents were required to submit their data by the 45th calendar day following the close of the month. Prior to 2002, data for unregulated plants were not collected by the Federal government.

Instrument and Design History. The Form EIA-423 was originally implemented in January 2002 to collect monthly cost and quality data for fossil fuel receipts from owners or operators of nonutility electricity generating plants. Due to the restructuring of the electric power industry, many plants which had historically submitted this information for utility plants on the FERC Form 423 (see subsequent section) were being transferred to the nonutility sector. As a result, a large percentage of fossil fuel receipts were no longer being reported. The Form EIA-423 was implemented to fill this void and to capture the data associated with existing unregulated power producers. Its design closely follows that of the FERC Form 423.

Formulas and Methodologies. Data for the Form EIA-423 were collected at the plant level. These data were then used in the following formulas to produce aggregates and averages for each fuel type at the State, Census Division, and U.S. levels. For these formulas, receipts and average heat content were at the plant level. For each geographic region, the summation sign, $\sum$, represents the sum of all facilities in that geographic region.

For coal, units for receipts are in tons and units for average heat contents (A) are in million Btu per ton.

For petroleum, units for receipts are in barrels and units for average heat contents (A) are in million Btu per barrel.

For gas, units for receipts are in thousand cubic feet (Mcf) and units for average heat contents (A) are in million Btu per thousand cubic feet.

For each of the above fossil fuels:

$$\text{Total Btu} = \sum_i (R_i \times A_i),$$

where i denotes a facility; R_i = receipts for facility i;

A_i = average heat content for receipts at facility i;

$$\text{Weighted Average Btu} = \frac{\sum_i (R_i \times A_i)}{\sum_i R_i},$$

where i denotes a facility; R_i = receipts for facility i; and,
A_i = average heat content for receipts at facility i.

The weighted average cost in cents per million Btu is calculated using the following formula:

$$\text{Weighted Average Cost} = \frac{\sum_i (R_i \times A_i \times C_i)}{\sum_i (R_i \times A_i)},$$

where i denotes a facility; R_i = receipts for facility i;

A_i average heat content for receipts at facility i;

and C_i = cost in cents per million Btu for facility i.

The weighted average cost in dollars per unit (i.e., tons, barrels, or Mcf) is calculated using the following formula:

$$\text{Weighted Average Cost} = \frac{\sum_i (R_i \times A_i \times C_i)}{10^2 \sum_i R_i},$$

where i denotes a facility; R_i = receipts for facility i;

A_i = average heat content for receipts at facility i;

and, C_i = cost in cents per million Btu for facility i.

Issues within Historical Data Series. Natural gas values for 2001 forward do not include blast furnace gas or other gas.

Prior to 2008, unregulated plants reported receipts data on the FERC Form 423. These plants, along with regulated plants, now report receipts data on Schedule 2 of Form EIA-923. Because FERC issued waivers to Form 423 filing requirements to some plants who met certain criteria, and because not all types of generators were required to report (only steam turbines and combined cycle units reported), a significant number of plants either did not submit fossil fuel receipts data or submitted only a portion of their fossil fuel receipts. Since Form EIA-923 does not have exemptions based on generator type, or reporting waivers, receipts data from 2008 and later cannot be directly compared to previous years' data for the regulated sector. Furthermore, there may be a notable increase in fuel receipts beginning with January 2008 data.

Sensitive Data (Formerly Identified as Data Confidentiality). Plant fuel cost data collected on the survey are considered business sensitive. State and national level aggregations will be published in this report if sufficient data are available to avoid disclosure of individual company and plant level costs.

FERC Form 423

The Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," was administered by FERC through the 2007 data year. The historical data are kept in downloaded an EIA database. The Form was due to FERC no later than 45 days after the end of the report month and was filed by approximately 600 regulated plants. To meet the criteria for filing, a plant must have a total steam turbine electric generating capacity and/or combined-cycle (gas turbine with associated steam turbine) generating capacity of 50 or more megawatts. Only fuel delivered for use in steam-turbine and combined-cycle units was reported. Fuel received for use in gas-turbine or internal-combustion units not associated with a combined-cycle operation were not reported.

Instrument and Design History. On July 7, 1972, the Federal Power Commission (FPC) issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, legally creating the FPC Form 423. Originally, the form was used to collect data only on fossil-steam plants, but was amended in 1974 to include data on internal-combustion and combustion-turbine units. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 eliminated peaking units, for which data were previously collected on the FPC Form 423. In addition, the generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants. All historical FPC Form 423 data in this publication were revised to reflect the new generator-nameplate-capacity threshold of 50 or more megawatts reported on the FERC Form 423. In January 1991, the collection of data on the FERC Form 423 was extended to include combined-cycle units. Historical data have not been revised to include these units. Starting with the January 1993 data, the FERC began to collect the data directly from the respondents.

Data Processing and Data System Editing. The FERC Form 423 was active through the 2007 data year. During that period, the FERC posted a monthly file on their website and EIA downloaded that file and reviewed the data for accuracy. Edit checks of the data were performed through computer programs. These edits included both deterministic checks in which records are checked for the presence of data in required fields, and statistical checks in which the data are checked against a range of values based on historical data values and for logical or mathematical consistency with other data elements in the file.

Estimation for FERC Form 423 Data. In order to address FERC Form 423 fuel receipts data that were determined to either be out of range (+/- 20 percent from the prior period) or missing due to non-response, a procedure was utilized to estimate fuel receipts for the affected plants on a monthly basis for the reporting period beginning in 2003. For missing or out-of-range natural gas receipts, the monthly consumption value from the Form EIA-906, "Power Plant Report," was used as a proxy for the monthly receipts. For missing or out-of-range coal and petroleum receipts, the estimated

monthly fuel receipts were calculated using the Form EIA-906 data (where receipts were estimated to be equal to the monthly fuel consumption plus the difference between ending and beginning fuel stocks).

For each non-respondent, the associated fuel quality and cost information for each fuel was estimated using the State weighted average for the electric power industry for the month (FERC Form 423 and Form EIA-423). In the event that no values were available at the State level, national averages for the electric power industry for the month were used.

Beginning in 2005, the procedure used the State or national averages for fuel quality and cost information only in the event of non-response. For out of range receipts, the reported fuel quality and cost information for each facility was retained. Prior to 2005, the State or national average value was used in the case of out of range receipts in addition to non-response.

Formulas and Methodologies. Data for the FERC Form 423 were collected at the plant level. These data were then used in the same formulas shown under the "Formulas and Methodologies" section for the Form EIA-423 to produce aggregates and averages for each fuel type at the State, Census division, and U.S. levels.

Issues within Historical Data Series. The FERC Form 423 data published by EIA have been reviewed for consistency between volumes and prices and for their consistency over time.

The FERC Form 423 data were collected by FERC for regulatory rather than statistical and publication purposes. EIA does not attempt to resolve any late filing issues in the FERC Form 423 data. In 2003, EIA introduced a procedure to estimate for late or non-responding entities that were required to report on the FERC Form 423 (as discussed above). Due to the introduction of this procedure, 2003 and later data cannot be directly compared to previous years' data.

Prior to 2008, regulated plants reported receipts data on the FERC Form 423. These plants, along with unregulated plants, now report receipts data on Schedule 2 of Form EIA-923. Because FERC issued waivers to Form 423 filing requirements to some plants who met certain criteria, and because not all types of generators were required to report (only steam turbines and combined cycle units reported), a significant number of plants either did not submit fossil fuel receipts data or submitted only a portion of their fossil fuel receipts. Since Form EIA-923 does not have exemptions based on generator type, or reporting waivers, receipts data from 2008 and later cannot be directly compared to previous years' data for the regulated sector. Furthermore, there may be a notable increase in fuel receipts beginning with January 2008 data.

Sensitive Data (Formerly Identified as Data Confidentiality). Data collected on FERC Form 423 are not considered to be sensitive.

Form EIA-923 *[New]*

Form EIA-923, "Power Plant Operations Report," is used to collect information on receipts and cost of fossil fuels, fuel stocks, electric power generation, fuel consumption, and environmental data (e.g., emission controls and cooling systems). Data are collected from a monthly sample of approximately 1,700 plants, which includes a census of nuclear and pumped storage hydroelectric plants. The plants in the monthly sample report their receipts, cost and stocks of fossil fuels, electric power generation, and the total consumption of fuels for both electric power generation and, if a combined heat and power plant, useful thermal output. At the end of the year, the monthly respondents report their annual source and disposition of electric power (nonutilities only), and if applicable, the environmental data on the Form EIA-923 Supplemental Form (Schedules 6, 7, and 8A to 8F). Approximately 3,300 plants, representing all generators not included in the monthly sample and with a nameplate capacity of 1 MW or more, report data on the entire form (Schedules 1 to 8F, as applicable) annually. In addition to electric power generating plants, respondents include fuel storage terminals without generating capacity that receive shipments of fossil fuels for eventual use in electric power generation. The monthly data are due by the last day of the month following the reporting period.

Receipts of fossil fuels, fuel cost and quality information, and fuel stocks at the end of the reporting period are all reported at the plant level. Fuel receipts and costs are collected from plants with a nameplate capacity of 50 MW or more and burn fossil fuels. Plants that burn organic fuels and have a steam turbine capacity of at least 10 megawatts report consumption at the boiler level and generation at the generator level for each month, regardless of whether the plant reports in the monthly sample or reports once a year (annually). For all other plants, consumption is reported at the prime-mover level. For these plants, generation is reported either at the prime-mover level or, for noncombustible sources (e.g., wind, nuclear), at the prime-move and energy source level (including generating unit for nuclear only). The source and disposition of electricity is reported annually for nonutilities at the plant level, as is revenue from sales for resale. Additional operational data, including environmental data, are collected annually from facilities that have a steam turbine capacity of at least 10 megawatts.

Instrument and Design History:

Receipts and Cost and Quality of Fossil Fuels

On July 7, 1972, the Federal Power Commission (FPC) issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, legally creating the FPC Form 423. Originally, the form was used to collect data only on fossil-steam plants, but was amended in 1974 to include data on internal-combustion and combustion-turbine units. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 eliminated peaking units, for which data were previously collected on the FPC Form 423. In addition, the

generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants. All historical FPC Form 423 data in this publication were revised to reflect the new generator-nameplate-capacity threshold of 50 or more megawatts reported on the FERC Form 423. In January 1991, the collection of data on the FERC Form 423 was extended to include combined-cycle units. Historical data have not been revised to include these units. Starting with the January 1993 data, the FERC began to collect the data directly from the respondents.

The Form EIA-423 was originally implemented in January 2002 to collect monthly cost and quality data for fossil fuel receipts from owners or operators of nonutility electricity generating plants. Due to the restructuring of the electric power industry, many plants which had historically submitted this information for utility plants on the FERC Form 423 (see above) were being transferred to the nonutility sector. As a result, a large percentage of fossil fuel receipts were no longer being reported. The Form EIA-423 was implemented to fill this void and to capture the data associated with existing non-regulated power producers. Its design closely followed that of the FERC Form 423.

Both the Form EIA-423 and FERC-423 were superseded by Form EIA-923 (Schedule 2) in January of 2008. The EIA-923 maintains the same 50 megawatt threshold for these data. However, not all data are collected monthly on the new form. Beginning with 2008 data, a sample of the respondents will report monthly, with the remainder reporting annually (monthly values will be imputed via regression). For 2007, Schedule 2 annual data were not be collected or imputed, as most of the plants required to report on Schedule 2 already submitted their 2007 receipts data on a monthly basis via the FERC Form 423 or the Form EIA-423.

Data Processing and Data System Editing. Respondents are encouraged to enter data directly into a computerized database via the e-filing system. A variety of automated quality control mechanisms are run during this process, such as range checks and comparisons with historical data. These edit checks are performed as the data are provided, and many problems that are encountered are resolved during the reporting process. Those plants that are unable to use the electronic reporting medium provide the data in hard copy, typically via fax. These data are manually entered into the computerized database, and are subjected to the same edits as those that were electronically submitted.

If the reported data appeared to be in error and the data issue could not be resolved by follow up contact with the respondent, or if a facility was a nonrespondent, a regression methodology was used to impute for the facility.

Issues within Historical Data Series. Beginning with 2008 data, tables for total receipts will include imputed quantities for plants with capacity one megawatt or more, to be consistent with other electric power data. Previous published receipts data were from plants over a 50 megawatt threshold, which was a legacy of their original collection as information for a regulatory agency (FERC), not as a survey to provide more meaningful estimates of totals for statistical purposes. Totals appeared to become smaller as more electric production came from unregulated plants, until the EIA-423 was created to help fill that gap. As a further improvement, the Form EIA-923 collects data from the universe normally depicted in the Electric Power Annual (*i.e.,* one megawatt and above), and provides estimates for nonresponse data from that universe with associated relative standard errors, providing a more complete assessment of the market.

Imputation. For data collected monthly, regression prediction, or imputation, is done for all missing data including non-sampled units and any nonrespondents. For data collected annually, imputation is done for nonrespondents.

Receipts of Fossil Fuels. Note that for 2007, these data were collected on Form EIA-423 and FERC Form 423.

Receipts data, including cost and quality of fuels, are collected at the plant level from selected electric generating plants and fossil-fuel storage terminals in the United States. These plants include independent power producers, electric utilities, and commercial and industrial combined heat and power producers whose total fossil-fueled nameplate capacity is 50 megawatts or more (excluding storage terminals, which do not produce electricity). The data on cost and quality of fuel shipments are then used in the following formulas to produce aggregates and averages for each fuel type at the State, Census Division, and U.S. levels. For these formulas, receipts and average heat content are at the plant level. For each geographic region, the summation sign, $\sum$, represents the sum of all facilities in that geographic region.

For coal, units for receipts are in tons and units for average heat contents (A) are in million Btu per ton.

For petroleum, units for receipts are in barrels and units for average heat contents (A) are in million Btu per barrel.

For gas, units for receipts are in thousand cubic feet (Mcf) and units for average heat contents (A) are in million Btu per thousand cubic foot.

For each of the above fossil fuels:

$$\text{Total Btu} = \sum_i (R_i \times A_i),$$

where i denotes a facility; R_i = receipts for facility i;

A_i = average heat content for receipts at facility i;

$$\text{Weighted Average Btu} = \frac{\sum_i (R_i \times A_i)}{\sum_i R_i},$$

where *i* denotes a facility; R_i = receipts for facility i; and, A_i = average heat content for receipts at facility i.

The weighted average cost in cents per million Btu is calculated using the following formula:

$$\text{Weighted Average Cost} = \frac{\sum_i (R_i \times A_i \times C_i)}{\sum_i (R_i \times A_i)},$$

where *i* denotes a facility; R_i = receipts for facility *i*;

A_i average heat content for receipts at facility *i*;

and C_i = cost in cents per million Btu for facility *i*.

The weighted average cost in dollars per physical unit (i.e., tons, barrels, or Mcf) is calculated using the following formula:

$$\text{Weighted Average Cost} = \frac{\sum_i (R_i \times A_i \times C_i)}{10^2 \sum_i R_i},$$

where *i* denotes a facility; R_i = receipts for facility *i*;

A_i = average heat content for receipts at facility *i*;

and, C_i = cost in cents per million Btu for facility *i*.

Relative Standard Error

The relative standard error (RSE) statistic, usually given as a percent, describes the magnitude of sampling error that might reasonably be incurred. The RSE is the square root of the estimated variance, divided by the variable of interest. The variable of interest may be the ratio of two variables, or a single variable.

The sampling error may be less than the nonsampling error. In fact, large RSE estimates found in preliminary work with these data have often indicated nonsampling errors, which were then identified and corrected. Nonsampling errors may be attributed to many sources, including the response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding data obtained, and other errors of collection, response, or coverage. These nonsampling errors also occur in complete censuses. In a complete census, this problem may become unmanageable.

Using the Central Limit Theorem, which applies to sums and means such as are applicable here, there is approximately a 68-percent chance that the true total or mean is within one RSE of the estimated total. Note that reported RSEs are always estimates, themselves, and are usually, as here, reported as percents. As an example, suppose that a net generation from coal value is estimated to be 1,507 total million kilowatthours with an estimated RSE of 4.9 percent. This means that, ignoring any nonsampling error, there is approximately a 68-percent chance that the true million kilowatthour value is within approximately 4.9 percent of 1,507 million kilowatthours (that is, between 1,433 and 1,581 million kilowatthours). Also under the Central Limit Theorem, there is approximately a 95-percent chance that the true mean or total is within 2 RSEs of the estimated mean or total.

Note that there are times when a model may not apply, such as in the case of a substantial reclassification of sales, when the relationship between the variable of interest and the regressor data does not hold. In such a case, the new information represents only itself, and such numbers are added to model results when estimating totals. Further, there are times when sample data may be known to be in error, or are not reported. Such cases are treated as if they were never part of the model-based sample, and values are imputed.