Quarterly Coal Report October-December 1992

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Preface

The *Quarterly Coal Report* (QCR) provides comprehensive information about U.S. coal production, distribution, exports, imports, receipts, prices, consumption, and stocks to a wide audience, including Congress, Federal and State agencies, the coal industry, and the general public. Coke production, consumption, distribution, imports, and exports data are also provided. The data presented in the QCR are collected and published by the Energy Information Administration (EIA) to fulfill data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (Public Law 93-275), as amended.

This issue presents detailed quarterly data for October through December 1992 and aggregated quarterly historical data for 1984 through the third quarter of 1992. Appendix A displays, from 1980 on, detailed quarterly historical coal imports data, as specified in Section 202 of the Energy Policy and Conservation Amendments Act of 1985 (Public Law 99-58). Appendix B gives selected quarterly tables converted to metric tons.

To provide a complete picture of coal supply and demand in the United States, historical information has been integrated in this report. Additional historical data can also be found in the following EIA publications:

Annual Energy Review 1991 (DOE/EIA-0384(91)),
Monthly Energy Review (DOE/EIA-0035), and
Coal Data: A Reference (DOE/EIA-0064(90)).

The historical data in this report are collected by the EIA in three quarterly coal surveys (coal consumption at manufacturing plants, coal distribution, and coal consumption at coke plants), one annual coal production survey, and two monthly surveys of electric utilities. The coal surveys originated at the Bureau of Mines, U.S. Department of the Interior, in the 1920's. In 1977, the responsibility for these surveys was transferred to the EIA under the Department of Energy Organization Act (Public Law 95-91). The two electric utility surveys originated at the Federal Power Commission (FPC); one in 1936 under the Federal Power Act and one in 1972 under FPC Order Number 453. The EIA continued these surveys, reducing the frequency and quantity of information requested, and increasing the automation of the associated data processing and report generation functions. Coal export and import data are obtained from the Bureau of the Census, U.S. Department of Commerce, which compiles monthly data from documents filed with the U.S. Customs Service, as required by law.

All data shown for 1992 are preliminary, and all data shown for 1991 and previous years are final. Coal production data for 1991 and previous years were based on the annual survey Form EIA-7A, "Coal Production Report." Coal production data for 1992 are preliminary and are based on the quarterly survey Form EIA-6, "Coal Distribution Report."

The Office of Coal, Nuclear, Electric and Alternate Fuels acknowledges the cooperation of the respondents in supplying the information published in this report.

Contents

	Page
Executive Summary	1
Legislation	7
Industry Developments	9
Production	13
Distribution	17
Exports and Imports	37
Receipts	51
Consumption	75
Stocks	85
Appendices	
A. U.S. Coal Imports	97
B. Metric Tables	133
C. Explanatory Notes	149
Glossary	159

Illustrations

	Page
1. Quarterly U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1984-1992 . . .	2
2. U.S. Coke Production, Imports, Consumption, Exports, and Stocks, 1984-1992	4
3. U.S. Quarterly Coal Production, 1984-1992	14
4. Quarterly Domestic Coal Distribution by End-Use Sector, 1984-1992	18
5. Domestic Distribution of U.S. Coal by Leading State Destination, January-December 1992 .	23
6. Quarterly Domestic Coal Distribution by Method of Transportation, 1984-1992	28
7. Quarterly U.S. Coal Exports and Imports, 1984-1992	39
8. Quarterly U.S. Coal Receipts, 1984-1992	52
9. Quarterly Average Price of U.S. Coal Receipts, 1984-1992	54
10. Quarterly U.S. Coal Consumption, 1984-1992	76
11. Quarterly U.S. Coal Stocks, 1984-1992	86

Tables

	Page
1. U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1984-1992	3
2. U.S. Coke Production, Imports, Consumption, Exports, and Stocks, 1984-1992	5
3. U.S. Coal Production, 1984-1992	14
4. Coal Production by State	15
5. Coke and Breeze Production at Coke Plants	16
6. Distribution of U.S. Coal by Origin State	19
7. Domestic Distribution of U.S. Coal to End-Use Sectors by Origin State	20
8. Foreign Distribution of U.S. Coal by Origin State, January-December 1992	22
9. Distribution of U.S. Coal by Destination	24
10. Domestic Distribution of U.S. Coal to End-Use Sectors by Destination State	25
11. Domestic Distribution of U.S. Coal by Method of Transportation and Origin State	29
12. Domestic Distribution of U.S. Coal by Method of Transportation and Destination State	32
13. Coke and Breeze Distributed by Coke Plants	35
14. U.S. Coal Exports and Imports, 1984-1992	38
15. Average Price of U.S. Coal Exports and Imports, 1984-1992	38
16. U.S. Coal Exports	40
17. Average Price of U.S. Coal Exports	41
18. U.S. Steam Coal Exports	42
19. Average Price of U.S. Steam Coal Exports	43
20. U.S. Metallurgical Coal Exports	44
21. Average Price of U.S. Metallurgical Coal Exports	45
22. Coal Exports by Customs District	46
23. U.S. Coke Exports	47
24. U.S. Coal Imports	47
25. Average Price of U.S. Coal Imports	48
26. Coal Imports by Customs District	49
27. U.S. Coke Imports	48
28. U.S. Coal Receipts by End-Use Sector, 1984-1992	53
29. Average Price of Coal Receipts by End-Use Sector, 1984-1992	55
30. Coal Receipts by Census Division and State	56
31. Quantity and Price of Coal Receipts at Electric Utility Plants by Census Division and State	57
32. Quantity and Price of Contract Coal Receipts at Electric Utility Plants by Census Division and State	58
33. Quantity and Price of Spot Coal Receipts at Electric Utility Plants by Census Division and State	59
34. Average Cost of Coal Receipts at Electric Utility Plants by Census Division and State	60
35. Coal Receipts and Price by Sulfur Content at Electric Utility Plants by State of Origin and Imports, January-December 1992	61
36. Destination of Coal Received at Electric Utility Plants by Origin, January-December 1992, 1991	62
37. Origin of Coal Received at Electric Utility Plants by Destination, January-December 1992, 1991	66
38. Coal Receipts at Coke Plants	69
39. Average Price of Coal Receipts at Coke Plants	70
40. Coal Receipts at Other Industrial Plants by Census Division and State	71
41. Average Price of Coal Receipts at Other Industrial Plants by Census Division and State	72
42. U.S. Coal Receipts at Manufacturing Plants by Standard Industrial Classification (SIC) Code	73
43. Average Price of Coal Receipts at Manufacturing Plants by Standard Industrial Classification (SIC) Code	73
44. Coal Receipts by the Residential and Commercial Sector by Census Division and State	74
45. U.S. Coal Consumption by End-Use Sector, 1984-1992	77
46. Coal Consumption by Census Division and State	78
47. Coal Consumption at Electric Utility Plants by Census Division and State	79
48. Coal Carbonized at Coke Plants by Census Division and State	80
49. Coal Consumption at Other Industrial Plants by Census Division and State	81
50. U.S. Coal Consumption at Manufacturing Plants by Standard Industrial Classification (SIC) Code	82
51. Coal Consumption by Residential and Commercial Sector by Census Division and State	83

52.	U.S. Coal Stocks, 1984-1992	87
53.	Consumer Coal Stocks by Census Division and State, December 31, 1992	88
54.	Coal Stocks at Electric Utility Plants by Census Division and State	89
55.	Coal Stocks at Coke Plants by Census Division and State	90
56.	Coal Stocks at Other Industrial Plants by Census Division and State	91
57.	U.S. Coal Stocks at Manufacturing Plants by Standard Industrial Classification (SIC) Code ..	92
58.	Coke and Breeze Stocks at Coke Plants	92
59.	Coal Stocks at Coal Producers and Distributors by Coal-Producing State	93
A1.	Quantity and Average Price of U.S. Coal Imports, 1984-1992	98
A2.	Quantity and Average Price of U.S. Coal Imports by Origin, 1984-1992	99
A3.	U.S. Coal Imports by Origin and by Customs District	100
A4.	Average Price of U.S. Coal Imports by Origin and by Customs District	101
A5.	Imported Coal Received at Electric Utility Plants by Origin	102
A6.	Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1992 ..	103
A7.	Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992	108
B1.	U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1984-1992	134
B2.	U.S. Coal Consumption by End-Use Sector, 1984-1992	135
B3.	U.S. Coal Stocks, 1984-1992	136
B4.	U.S. Coal Exports and Imports, 1984-1992	137
B5.	U.S. Coal Exports	138
B6.	Average Price of U.S. Coal Exports	139
B7.	U.S. Steam Coal Exports	140
B8.	Average Price of U.S. Steam Coal Exports	141
B9.	U.S. Metallurgical Coal Exports	142
B10.	Average Price of U.S. Metallurgical Coal Exports	143
B11.	U.S. Coal Imports	144
B12.	Average Price of U.S. Coal Imports	145
C1.	Approximate Heat Content of Coal	158

Executive Summary

The United States produced just over 1 billion short tons of coal in 1992, 0.4 percent more than in 1991 (Table 1). This was the second year that U.S. coal production was over 1 billion short tons. In 1990, coal production reached a record 1.029 billion short tons. For the fifth consecutive year, Wyoming was the top coal-producing State (190 million short tons), followed by West Virginia (165 million short tons) and Kentucky (161 million short tons) (Table 4). Together, these three States produced 52 percent of the U.S. total.

Most of the 4-million-short-ton increase in coal production occurred west of the Mississippi River, where a record level of 408 million short tons of coal was produced. Although Wyoming experienced a 4-million-short-ton decline in coal production, this was more than offset by higher production in New Mexico, North Dakota, Colorado, and Texas.

The amount of coal received by domestic consumers in 1992 totaled 887 million short tons. This was 7 million short tons more than in 1991, primarily due to increased coal demand from electric utilities (Table 28). The average price of delivered coal to each sector declined by about 2 percent (Table 29).

Coal consumption in 1992 was 893 million short tons, only 1 percent higher than in 1991, due primarily to a 1-percent increase in consumption at electric utility plants (Table 45). Most of this increase occurred in the Mountain Census Division, particularly in Wyoming, New Mexico, Arizona, and Utah, where coal-fired generation was used to meet the increased demand for electricity in those States.

Consumer coal stocks at the end of 1992 were 163 million short tons, a decrease of 3 percent from the level at the end of 1991, and the lowest year-end level since 1989 (Table 52). Electric utility end-of-year coal stocks were at the lowest year-end level since 1989. Coal stocks at other industrial plants declined to a record year-end low.

U.S. coal exports fell 6 percent from the 1991 level to 103 million short tons in 1992. Less coal was exported to markets in Europe, Asia, and South America, but coal exports to Canada increased 4 million short tons. The overall decrease was due primarily to lower demand for U.S. coal from Italy, France, China (Taiwan), and Brazil. The leading destinations for U.S. coal exports were Canada, Japan, Italy, and the Netherlands,

which together accounted for 45 percent of the total (Table 16). Coal exports in 1992 were valued at over \$4 billion, based on an average price of \$41.34 per short ton, a record annual low (Table 15). The Customs District of Norfolk, Virginia, handled 52 percent of all coal exported (Table 22).

Steam coal exports for 1992 totaled 43 million short tons, a decrease of 3 percent from a year earlier (Table 18). Although steam coal exports to Canada showed an increase of 3 million short tons, this was offset by a decline in steam coal exports to Italy, China (Taiwan), the Netherlands, and Germany. The four leading destinations of steam coal exports in 1992 were Canada, the Netherlands, Denmark, and France, together accounting for 52 percent of all U.S. steam coal exports.

Metallurgical coal exports amounted to 59 million short tons, a decrease of 8 percent from the 1991 level (Table 20). The largest decline occurred in metallurgical exports to France, Brazil, and Spain. The three leading destinations for metallurgical coal exports in 1992 were Japan, Italy, and Brazil, which together received 37 percent of the U.S. total.

U.S. coal imports for 1992 reached a record level of 3.8 million short tons, 12 percent more than in 1991 (Table 24). Coal imported to Hawaii from Indonesia accounted for most of the increase. Colombia was the leading source of imported coal, accounting for 46 percent of the total. Coal imports for 1992 were valued at \$127 million, based on an average price of \$33.46 per short ton (Table 25).

Figure 1. Quarterly U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1984-1992

Note: Each increment represents end-of-quarter data.
 Sources: Production: Energy Information Administration (EIA), Form EIA-8, "Coal Distribution Report" and Form EIA-7A, "Coal Production;" U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report;" and State mining agency coal production reports; Imports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 146;" Producer and Distributor Stocks: EIA, Form EIA-6, "Coal Distribution Report;" Exports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 546;" Consumption and Consumer Stocks: EIA, Form EIA-759, "Monthly Power Plant Report," Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants;" Form EIA-5, "Coke Plant Report - Quarterly;" and Form EIA-6, "Coal Distribution Report."

**Table 1. U.S. Coal Production, Imports, Consumption, Exports, and Stocks,
1984-1992**
(Thousand Short Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks ¹	Consumption	Exports	Consumer Stocks ¹	Losses and Unaccounted For ²
1984 January - March	223,115	276	34,265	199,942	15,125	174,283	2,358
April - June	230,226	269	30,841	185,817	23,737	194,065	4,584
July - September	244,592	435	29,701	208,113	25,263	208,019	-1,164
October - December	197,988	306	34,090	197,424	17,357	197,211	-10,066
Total	855,921	1,286		791,296	81,483		-4,288
1985 January - March	213,238	330	35,371	205,484	18,544	179,454	6,016
April - June	228,160	500	35,197	193,529	24,208	188,013	2,538
July - September	222,827	623	32,632	213,937	25,831	176,195	-1,935
October - December	219,414	500	33,133	205,099	24,097	170,234	-3,823
Total	883,638	1,952		818,049	92,680		2,797
1986 January - March	227,974	485	38,024	206,233	17,245	166,398	3,925
April - June	220,001	576	38,148	188,673	24,170	176,018	-2,010
July - September	218,681	537	33,804	212,671	23,687	164,885	-1,663
October - December	223,659	614	32,093	196,654	20,416	175,226	-1,427
Total	890,315	2,212		804,231	85,518		-1,175
1987 January - March	222,199	331	36,560	199,523	16,576	173,173	4,017
April - June	218,823	483	33,939	199,627	20,113	176,037	-677
July - September	232,958	475	28,775	229,397	21,033	165,598	-1,395
October - December	244,782	459	28,321	208,394	21,885	185,459	-4,445
Total	918,762	1,747		836,941	79,607		-2,499
1988 January - March	236,889	542	36,764	220,787	16,061	175,279	2,320
April - June	226,645	587	36,079	205,735	24,900	173,308	-746
July - September	241,622	437	31,360	238,672	27,691	154,331	-607
October - December	245,109	567	30,418	218,448	26,371	158,413	-2,283
Total	950,265	2,134		883,642	95,023		-1,316
1989 January - March	247,179	531	35,508	223,486	21,429	149,238	6,882
April - June	239,022	687	30,598	208,025	28,445	159,013	-1,628
July - September	243,060	925	28,848	232,026	23,991	147,165	1,566
October - December	251,468	708	29,000	226,163	26,949	146,087	-9
Total	980,729	2,851		889,699	100,815		6,811
1990 January - March	264,184	735	35,099	217,014	22,383	160,782	4,727
April - June	254,279	674	36,895	211,666	27,733	173,061	1,479
July - September	254,760	514	33,659	240,821	29,497	161,639	-387
October - December	255,853	776	33,418	225,978	26,191	168,210	-1,870
Total	1,029,076	2,699		895,480	105,804		3,949
1991 January - March	254,746	938	42,162	219,208	22,318	171,485	2,140
April - June	237,006	730	41,054	208,757	26,214	173,663	1,696
July - September	251,438	984	33,628	236,093	31,197	163,860	2,360
October - December	252,794	738	32,971	223,562	29,239	167,711	-2,464
Total	995,984	3,390		887,621	108,969		3,731
1992 January - March	256,673	679	39,853	220,283	24,731	168,621	4,546
April - June	243,425	1,043	40,513	210,428	27,010	173,120	1,872
July - September	249,677	882	35,198	237,508	26,481	160,989	4,016
October - December	250,475	1,199	33,993	224,333	24,294	162,968	2,272
Total	1,000,250	3,803		892,552	102,516		12,706

¹ Reported as of the last day of the quarter.

² Losses and Unaccounted for equals production plus imports minus the change in producer and distributor stocks minus consumption minus exports minus the change in consumer stocks.

Notes: Total may not equal sum of components because of independent rounding. See Technical Note 1 for differences between production and distribution.

Sources: • Production: Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report" and Form EIA-7A, "Coal Production Report"; Mine Safety and Health Administration, U.S. Department of Labor, Form 7000-2, "Quarterly Mine Employment and Coal Production Report"; and State mining agency coal production reports; • Imports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145"; • Producer and Distributor Stocks: EIA, Form EIA-6, "Coal Distribution Report"; • Exports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545"; • Consumption and Consumer Stocks: EIA, Form EIA-759, "Monthly Power Plant Report"; Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; and Form EIA-6, "Coal Distribution Report."

Figure 2. U.S. Coke Production, Imports, Consumption, Exports, and Stocks, 1984-1992

Note: Each increment represents end-of-quarter data.
 Sources: Production, Consumption, and Producer and Distributor Stocks: Energy Information Administration (EIA), Form EIA-6, "Coke Plant Report - Quarterly;" Exports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545;" Imports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145."

**Table 2. U.S. Coke Production, Imports, Consumption, Exports, and Stocks,
1984-1992**
(Thousand Short Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks ¹	Consumption ²	Exports
1984 January - March	7,672	177	3,153	8,110	104
April - June	8,207	96	2,966	8,255	235
July - September	7,460	147	3,441	6,852	280
October - December	7,060	161	3,716	6,521	425
Total	30,399	582		29,738	1,045
1985 January - March	7,159	226	3,471	7,484	146
April - June	7,550	160	3,279	7,555	347
July - September	7,096	92	3,217	6,923	327
October - December	6,632	100	2,553	7,094	302
Total	28,438	578		29,057	1,122
1986 January - March	7,145	91	2,319	7,330	140
April - June	7,061	129	2,174	7,088	247
July - September	5,315	17	2,141	5,033	332
October - December	5,396	92	2,066	5,278	285
Total	24,917	329		24,729	1,004
1987 January - March	5,719	80	1,853	5,863	149
April - June	6,661	209	1,546	7,063	113
July - September	6,886	342	1,436	7,187	151
October - December	7,038	291	1,064	7,540	161
Total	26,304	922		27,654	574
1988 January - March	7,103	606	956	7,643	174
April - June	7,288	630	1,140	7,400	335
July - September	7,274	746	1,271	7,672	216
October - December	7,279	706	1,583	7,305	368
Total	28,945	2,688		30,021	1,093
1989 January - March	7,063	687	1,167	7,992	173
April - June	7,134	929	1,264	7,708	259
July - September	6,870	546	1,763	6,684	234
October - December	6,978	149	1,919	6,551	420
Total	28,045	2,311		28,935	1,085
1990 January - March	7,096	167	1,965	7,085	132
April - June	6,961	148	1,929	7,001	144
July - September	6,701	278	1,840	6,929	140
October - December	6,859	171	1,918	6,795	157
Total	27,617	765		27,811	572
1991 January - March	5,967	168	2,093	5,920	40
April - June	5,706	277	2,003	5,800	273
July - September	6,256	432	2,172	6,275	244
October - December	6,117	222	2,107	6,221	183
Total	24,046	1,099		24,216	740
1992 January - March	5,892	508	2,101	6,290	116
April - June	5,850	430	2,027	6,156	157
July - September	5,837	333	2,055	5,897	245
October - December	5,831	468	1,883	6,347	124
Total	23,410	1,739		24,690	642

¹ Reported as of the last day of the quarter.

² Consumption is equal to production plus imports plus/minus the change in producer and distributor stocks minus exports.

Notes: Total may not equal sum of components because of independent rounding.

Sources: • Production, Consumption, and Producer and Distributor Stocks: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly" • Imports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145" and • Exports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545".

Legislation

Proposed Federal Legislation

Bill	Title	Status
H.R. 266	Black Lung Benefits Equity Act	Introduced on January 5, 1993. Referred to the House Education and Labor Committee.
H.R. 598	1993 H.R. 598	Introduced on January 26, 1993. Referred to the House Education and Labor Committee.
H.R. 804	1993 H.R. 804	Introduced on February 3, 1993. Referred to the House Ways and Means Committee.

H.R. 266 would amend the Black Lung Benefits Act to provide that if black lung benefits are paid to a beneficiary for at least 2 years following an initial determination of eligibility, repayment of benefits will not be required if the beneficiary is ultimately found to be ineligible for the benefits.

H.R. 598 would amend the Coal Mine Health and Safety Act of 1969 to establish a presumption of eligibility for disability benefits for certain coal miners who filed claims under Part C of the Act between July 1, 1973, and April 1, 1980.

H.R. 804 would amend the Internal Revenue Code to impose a tax on certain fuels based upon their carbon content.

State Legislation Update

Ohio. House Bill 374, first introduced on April 30, 1991, allows a letter of credit to be accepted in lieu of a performance bond for coal strip mine permits. The proposal passed the House on April 9, 1992, and was sent to the Senate. It was referred to the Committee on Commerce and Labor on April 28, 1992, and reported on November 18, 1992, with recommendations for amendments. The bill was amended and passed by the Senate on November 19, 1992, and returned to the House for concurrence. The House concurred on December 15, 1992, and the bill was signed by the Governor on January 15, 1993.

New State Legislation

Alabama. House Bills 609 and 630, both introduced on February 25, 1993, would provide for the appropriation and disbursement of the proceeds from certain coal and lignite severance taxes. House Bill 609 was referred to the House Committee on Ways and Means, and House Bill 630 was referred to the House Committee on Commerce, Transportation and Utilities.

Illinois. House Bill 456, introduced on February 17, 1993, would amend the Public Utilities Act by removing coal transportation costs from allowable costs recoverable by utilities as a cost of fuel. The measure was referred to the House Committee on Public Utilities on February 24, 1993.

House Bill 751, introduced February 26, 1993, would amend the Surface Coal Mining Land Conservation and Reclamation Act to permit the Mines and Mineral Department to accept an applicant's bond without separate surety if the applicant has a history of solvency and designates a suitable agent for service of process. The measure was referred to the House Committee on Environment and Energy on March 2, 1993.

House Bill 773 was introduced on February 26, 1993, and referred to the House Committee on Revenue on March 2, 1993. The measure would amend the Income Tax Act to extend through 2005 the tax credit for coal research and coal utilization equipment. The measure would also provide a \$1,500 tax credit for coal mining

companies which hire at least five additional full-time employees in a year.

Indiana. Senate Bill 374 would eliminate a provision under which a mine operator's obligation to pay fees into the Surface Mine Reclamation Bond Pool is suspended after payments have been made for 5 years. The measure was introduced on January 11, 1993, and referred to the Senate Natural Resources Committee. The Committee reported the measure to the Senate on February 16, recommending passage. The measure was passed by the Senate on February 25, 1993, and sent to the House, where it was referred to the Committee on Public Policy, Ethics, and Veterans Affairs on March 4, 1993.

West Virginia. House Bill 2194 would alter the minimum coal severance tax from a flat 50 cents per ton to a graduated rate of 50 cents per ton for the first 120,000 tons of annual production and \$1.25 per ton for all tonnage over 120,000 tons. The measure was introduced on February 19, 1993, and referred to the House Committee on Finance. A companion bill, Senate Bill 90, was introduced in the Senate on February 19, 1993, and referred to the Senate Committee on Finance.

Wyoming. House Bill 112, introduced on January 13, 1993, would impose a coal severance tax and dedicate the resulting revenue to the School Foundation Program. The measure referred to the House Committee on Revenue on January 26, 1993.

Industry Developments

Mining

UMWA and BCOA Resume Contract Talks. After 3 months of unsuccessful contract negotiations followed by a 30-day selective strike by miners, the United Mine Workers of America (UMWA) and the Bituminous Coal Operators Association (BCOA) agreed on March 3 to extend their expired wage agreement for 60 days while bargaining is renewed. Both sides expressed confidence the new talks will be productive.

Talks on a new agreement to replace the 5-year National Bituminous Coal Wage Agreement signed in 1988 began November 6, 1992, but bogged down almost immediately over procedural issues. The deadlock continued through January 1993.

When no agreement was in place as the old contract expired at midnight February 1, more than 5,000 union miners at 22 mines in 4 States walked off their jobs in a selective strike against the Peabody Coal Company and the Eastern Associated Coal Company. Both companies are subsidiaries of Peabody Holding Company, the Nation's largest coal producer.

The affected mines were located in Indiana, Illinois, Kentucky, and West Virginia. Collectively, the mines produced 39 million short tons of coal in 1991 and 20 million short tons during the first half of 1992.

The UMWA announced on March 1 that the strike would be expanded the next day to include mines owned by five additional companies: Arch Mineral Corporation, Consol Corporation, Freeman Energy Corporation, the Rochester and Pittsburgh Coal Company, and Zeigler Coal Holding, Incorporated. The expansion would have raised the number of striking miners to 9,200 and would have added Pennsylvania to the list of affected States. But on March 2, union and company officials announced that bargaining would resume, and that the 1988 accord would be extended through May 3. Striking miners returned to work on March 4.

Central to the disagreement is the complex multitiered ownership of some U.S. coal companies. Some of the Nation's larger coal companies are organized as holding companies, a type of corporate structure through which a single parent company controls one or more mining subsidiaries.

In some cases, holding companies themselves may be subsidiaries of other holding companies. Peabody Holding Company, for example, is owned by Hanson Industries of New York, which, in turn, is a subsidiary of Hanson P.L.C., a British conglomerate.

Technically, each holding company and subsidiary corporation is an independent legal entity which negotiates its own contracts, including union wage agreements. Consequently, a contract which binds a subsidiary may not bind the parent company.

Union officials contend that parent companies have used this complex legal structure to circumvent wage agreements by engaging in a type of corporate shell game in which unionized subsidiaries are dissolved and replaced by new non-union companies. Mine owners reply that the union is free to organize the new companies, but union leaders nonetheless consider the practice a threat to union miners.

To prevent the practice in the future, the union is insisting that any new wage agreement bind the parent companies rather than individual subsidiaries, and it has asked mine owners to supply information on company ownership. The initial deadlock in negotiations preceding the February 1 walkout arose when one company declined to supply the requested information.

Apart from talks with BCOA, the UMWA is also negotiating a new wage agreement with the Independent Bituminous Coal Bargaining Alliance. The Alliance is composed of Westmoreland Coal Company, Drummond Company, Jim Walter Resources Incorporated, and U.S. Steel Mining Company. The parties have announced that their prior agreement, which expired February 1, will also be extended for 60 days while negotiations continue.¹

¹ "Coal Miners Begin Strike in 4 States," *New York Times* (New York, New York, February 3, 1993). "Union Prepares For Long Strike At Coal Mines," *New York Times* (New York, New York, February 6, 1993). "Mine Workers Union Ends Strike By Extending Its Former Contract," *New York Times* (New York, New York, March 3, 1993). "BCOA, UMWA Contract Talks Stalled," *Coal News* (Washington, D.C., February 8, 1993).

Experimental Mining Technique Captures Methane. The New England Electric System is sponsoring tests of a new coal mining technique which would capture methane instead of releasing it into the atmosphere. If the technique proves feasible, it could make mining safer and slow the growth of greenhouse gases.

Commonly known as natural gas, methane is found in most deep coal mines. Since it is highly volatile and poses a threat to miners, the methane is routinely vented into the atmosphere as a waste product during mining operations.

Once in the atmosphere, methane can also harm the environment because it contributes to the greenhouse effect by trapping heat in the atmosphere. While carbon dioxide is the most significant greenhouse gas, accounting for half of the greenhouse gases added to the atmosphere each year, methane from coal mining and other sources is the second largest contributor, representing 18 percent of the annual total.

In a recent report, the Environmental Protection Agency estimated that recovering coalbed methane could reduce total methane emissions by up to 40 billion cubic feet per year by 2000, offsetting the greenhouse effects of operating up to 3.9 million automobiles.

The new mining technique under study uses a hydraulic drill operating in a mine shaft to bore horizontally up to 2,000 feet into a coal seam seeking pools of methane. Since coal seams vary in thickness and meander through the surrounding rock, the path of the drilling is determined largely by trial and error. The drill operator must probe slowly, relying on pressure gauges, a tube-shaped camera, and intuition to keep the drill bit within the seam.

If the drilling is successful and an economically viable methane pool is located, the gas can be piped out of the seam and sold. Once all the methane is extracted, the seam can be mined.²

MSHA Issues Final Rule on Safety Act Violations. Responding to a 1989 Federal court order, the U.S. Department of Labor, Mine Safety and Health Administration (MSHA), has revised the penalty assessment rules for violations of the Federal Mine Safety and Health Act of 1977 (the Mine Safety Act). The new guidelines, contained in a final MSHA rulemaking published December 21, 1992, in the *Federal Register*, provide for higher penalties and broader interpretation of a mine operator's compliance history.

MSHA regulations under the Mine Safety Act initially provided for two types of penalty assessments: regular

assessments, based upon criteria in the Mine Safety Act and calculated according to a formula; and special assessments, which were available for other type violations not addressed by the regular assessment criteria.

The regulations were amended in 1982 to provide for single penalty assessments. These assessments applied to safety violations that were not likely to lead to injury or illness and that were promptly corrected by the mine operator. The amended regulations further provided that, if a mine owner paid a single penalty assessment promptly, the violation would not be included in the history of violations considered in calculating regular assessments.

Following a 1988 challenge to the amended rules by the Coal Employment Project and the United Mine Workers of America, a Federal appeals court ruled in 1989 that the MSHA must consider an operator's complete compliance history in deciding whether a violation qualifies for single penalty assessment, and must consider single penalty assessments in computing regular assessments. The new rulemaking is a response to the Court's order.³

OSM Proposes Rule on AML Fees. The Office of Surface Mining (OSM) has proposed a rule which would permit mine operators delivering coal for preparation to pay Abandoned Mine Land (AML) fees based upon the estimated value of the coal after cleaning. The proposed rule addresses a controversy over whether the AML assessment should be based on the raw coal value or the clean coal value.

The proposed rule would require preparation plant operators to keep records detailing the amount of raw coal received and the amount of clean coal delivered. Based upon these records, the estimated fees paid by mine operators would be adjusted for any overpayment or underpayment.⁴

Coal Mining Fatalities Reach Near-Record Low in 1992. Fifty-five miners died in the Nation's coal mines during 1992, according to data compiled by the U.S. Department of Labor, Mine Safety and Health Administration (MSHA). The 1992 toll, representing 34 deaths in underground mines and 21 deaths in surface mines, is the lowest since 1988, when 53 coal miners died in mining accidents. Coal mining fatalities have declined in each of the last 4 years, from 68 in 1988 to 66 in 1990 and to 60 in 1991.⁵

Great Northern Acquires Burlington Reserves. Great Northern Properties Ltd. has acquired 14 billion tons of coal reserves from Burlington Resources, Incorporated, according to the Montana Coal Council.

² "Capturing Methane From the Coal Mines," *New York Times*, (New York, New York, January 10, 1993), p. F-9.

³ *Federal Register*, Volume 57, No. 245, Monday, December 21, 1992, p. 60691.

⁴ "OSM Proposes New Coal Tax Ruling," *Coal* (Chicago, Illinois, February 1993), p. 14.

⁵ "U.S. Coal Mining Deaths Decline to Near-Record Low," *Coal*, (Chicago, Illinois, February 1993), p. 10.

Burlington reportedly received \$80 million for the reserves and will retain a royalty interest in future sales.⁶

Kennecott Will Buy NERCO from PacifiCorp and Cordero from Sun. Kennecott Corporation, a major copper producer and former owner of the Peabody Coal Company, has announced it will return to the coal business by acquiring two coal companies with major operations in Wyoming's Powder River Basin.

In mid-February, Kennecott announced plans to acquire PacifiCorp's 82-percent share of NERCO Inc. for \$470 million. NERCO is a diversified energy and mining company with interests in oil and gas as well as coal, gold, and silver.

According to the RTZ Corporation, Kennecott's British parent company, the main objective in the NERCO acquisition is NERCO Coal, which owns the Antelope and Spring Creek mines in the Powder River Basin. NERCO Coal also owns 50 percent interest in the Basin's Decker mine. The other half owned by the Peter Kiewit Corporation.

Shortly after announcing the NERCO purchase, Kennecott revealed plans to buy Cordero Mining from the Sun Company for \$120.5 million. Cordero Mining operates the Cordero Mine, one of the largest surface mines in the Nation.⁷

Bethlehem Sells Pennsylvania Reserves. Following a previously announced plan to divest itself of assets unrelated to steel, the Bethlehem Steel Corporation announced in December that it has sold its interest in an operating mine and 25,000 acres of coal reserves to subsidiaries of the Rochester and Pittsburgh Coal Company. Both the mine and the reserve property are located in Washington County, Pennsylvania.⁸

Number of Operating U.S. Longwalls Drops Slightly in 1992. The total number of longwall mines operating in the United States dropped from 92 in 1991 to 89 in 1992, according to *Coal* magazine's "1993 U.S. Longwall Census." While the total number of companies with longwall operations remained constant at 27 during 1992, there were some changes in the company mix. Shell Coal left the coal mining business, selling its Wolf Creek longwall operations along with its other mines to Zeigler Coal. Additionally, Damron Mining has reportedly shut down its Pike County, Kentucky, longwall mine.

Replacing these companies as longwall operators are two new firms: New Warwick Mining, which has taken

over Pennsylvania's Warwick mine, previously owned by Duquesne Power and Light Company; and Mountain Coal, a subsidiary of Atlantic Richfield Company. Mountain is mining a 276-inch seam at the West Elk Mine in Colorado, which is the thickest longwall seam ever mined in the United States.⁹

Occidental Will Sell Island Creek to Consol. Completing a broad corporate restructuring, the Occidental Petroleum Corporation has announced it will sell its coal subsidiary, Island Creek Coal Company, to Consol Energy Inc. Island Creek produced 16 million tons in 1992, making it the 18th largest U.S. coal company. Its operations include mines in Kentucky, Virginia, and West Virginia.

Consol, the Nation's second largest coal company, produced 57 million tons of coal in 1992. Adding Island Creek's production to its own will bring Consol closer to the largest U.S. producer, the Peabody Holding Company, which produced 91 million tons in 1992.¹⁰

Coal Conversion

Defense Department Will Study Oil-to-Coal Conversions. The U.S. Department of Defense (DOD) has announced plans to study whether some of the oil-fired boilers currently used to supply heat at military installations can be modified to burn coal. The 3-year project will be funded by a \$15 million DOD research grant and managed by U.S. Department of Energy's Pittsburgh Energy Technology Center.

A consortium led by a team of researchers from Pennsylvania State University will study approximately 6,000 boilers at DOD facilities to identify those most suitable for conversion. Those selected for conversion will be modified to burn either a coal slurry mixture or dry micronized coal.¹¹

Research

DOE Funds FGD Waste Use Study. Researchers at the University of Arizona have received a \$49,000 U.S. Department of Energy grant to study a proposed

⁶ "Burlington Resources Sells Reserves to Great Northern," *Coal* (Chicago, Illinois, February 1993), p. 14.

⁷ "Kennecott Gets Back Into Coal, Buys NERCO," *Coal Outlook* (Arlington, Virginia, February 22, 1993), p. 1. "Kennecott to Buy Cordero Mining," *Coal News* (Washington, D.C., March 1, 1993), p. 3.

⁸ "Bethlehem Steel Sells Pennsylvania Coal Reserves," *Coal* (Chicago, Illinois, February 1993), p. 16.

⁹ "1993 U.S. Longwall Census," *Coal* (Chicago, Illinois, February 1993), p. 26.

¹⁰ "Sale of Occidental Petroleum Unit Is Last in Broad Shift," *The Wall Street Journal*, (New York, New York, April 16, 1993), p. B-5.

¹¹ "Defense, Energy Project Should Help Reduce Dependence on Foreign Oil," *Coal News*, (Washington, D.C., January 18, 1993), p. 3.

method of recycling the waste products from flue gas desulfurization (FGD) systems at coal-fired power plants. The method uses a process of precipitation and hydrolysis to transform the nitrogen sulfur compounds in FGD waste into an ammonia and potassium fertilizer product.¹²

Computer Simulation Aids Dragline Operator Training. Dragline operators can now learn and practice their skills in the same fashion as airline pilots: through computer simulation. As part of a broad training program for operators and supervisors, the Southern Illinois University's Coal Research Center has developed a dragline simulator featuring a full-scale cab operating in a 15 x 18 foot model pit. The simulator can replicate the operation of virtually any dragline configuration, including the sounds of actual operation.

Dragline operation requires great skill and judgement which, historically, could be developed only through actual operating experience. But since dragline equipment is very expensive to acquire and operate, using it for training carries a high cost in operating expenses and foregone productivity.

With the new simulator, training and practice sessions can offer the benefits of real-time experience without the risks and expenses of actual operation. University officials believe that the new simulator training can increase the productivity and reduce production costs of dragline operations.¹³

Tests of Leaching Process Yield Ultra Clean Coal. Recently completed tests of a coal cleaning process known as Molten Caustic Leaching (MCL) have shown that the process can remove more the 90 percent of the sulfur and virtually all of the ash-forming minerals from coal. The tests were conducted by TRW, Inc., under a cost-sharing contract with the U.S. Department of Energy.

The MCL process combines one part coal with between one and two parts sodium hydroxide and heats the mixture to approximately 400 degrees Centigrade, causing the sulfur and minerals in the coal to dissolve. The final product is an ultra-clean coal with less than 0.5 percent sulfur and ash.¹⁴

President Proposes Btu Tax. As part of a broad plan to reduce the Federal deficit and stimulate economic growth, President Clinton has proposed new energy taxes based upon the heat content of fuels. The tax would range from 25.7 cents per million Btu on coal, natural gas, and nuclear energy to 59.9 cents per million Btu on oil.

The tax would be phased in over 3 years. One-third would be effective July 1, 1994, with an additional one-third added in each of the following 2 years.

The proposal has generated debate over the absolute and relative impact the tax would have on the different fuels, as well as its likely effects on the various sectors of the economy. While it appears likely the tax would lead to some increases in energy prices, estimates of the amounts of the increases vary.

Also at issue are the relative impacts of the tax increase. For example, although coal and natural gas would bear the same tax per million Btu, coal producers argue that gas would gain an advantage in delivered price because they contend that coal transportation costs (rail, barge, and truck) would also rise as a result of the oil tax.¹⁵

EPA Publishes Phase II Acid Rain Program Allowances. The Environmental Protection Agency (EPA) has issued final regulations establishing allowance allocations for Phase II of the acid rain program. The allocations, contained in a final rulemaking published March 15, 1993, in the *Federal Register*, affect over 2,000 facilities nationwide, including co-generators, independent power producers, and solid waste incinerators.¹⁶

¹² "DOE to Grant University of Arizona Award to Research FGD Waste Use Process," *Clean-Coal/Synfuels Letter*, (Washington, D.C., January 25, 1993), p.4.

¹³ "Practice Makes Perfect," *Coal Voice*, (Washington, D.C., January/February 1993), p.9.

¹⁴ "Chemical Coal Cleaning Process Produces Ultra Low-Sulfur Coal," *Clean-Coal/Synfuels Letter*, (Washington, D.C., January 25, 1993), p.4.

¹⁵ "Coal Hit Hard By Clinton Tax?," *Coal Outlook* (Arlington, Virginia, February 22, 1993), p. 6.

¹⁶ "EPA Releases Final Phase II Allowance Rules," *Coal News*, (Washington, D.C., March 15, 1993), p. 3.

Production

Coal produced from Wyoming's Black Thunder mine, the Nation's largest coal mine, is loaded at this facility for shipment to distant markets. In 1990, the Black Thunder mine produced nearly 30 million short tons of coal.

Figure 3. U.S. Quarterly Coal Production, 1984-1992

Note: Each increment represents end-of-quarter data.
 Sources: Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report;" U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report;" and State mining agency coal production reports.

Table 3. U.S. Coal Production, 1984-1992
 (Thousand Short Tons)

Year	January - March	April - June	July - September	October - December	Year to Date
1984	223,115	230,226	244,592	197,988	895,921
1985	213,238	228,160	222,827	219,414	883,638
1986	227,974	220,001	218,681	223,659	890,315
1987	222,199	218,823	232,958	244,782	918,762
1988	236,889	226,645	241,622	245,109	950,265
1989	247,179	239,022	243,060	251,468	980,729
1990	264,184	254,279	254,760	255,853	1,029,076
1991	254,746	237,006	251,438	252,794	995,984
1992	256,673	243,425	249,677	250,475	1,000,250

Notes: Total may not equal sum of components because of independent rounding.

Sources: Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report" and Form EIA-7A, "Coal Production Report"; Mine Safety and Health Administration, U.S. Department of Labor, Form 7000-2, "Quarterly Mine Employment and Coal Production Report"; and State mining agency coal production reports.

Table 4. Coal Production by State
(Thousand Short Tons)

Coal-Producing Region and State	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
Alabama	6,587	5,710	6,665	25,451	27,269	-6.7
Alaska	463	295	462	1,527	1,436	6.3
Arizona	2,998	3,132	3,478	12,512	13,203	-5.2
Arkansas	8	12	10	37	52	-29.3
California	45	30	57	105	57	85.0
Colorado	4,898	4,951	4,436	18,861	17,834	5.8
Illinois	14,109	14,224	15,218	59,444	60,258	-1.3
Indiana	7,254	7,481	8,101	32,045	31,468	1.8
Iowa	61	76	81	287	344	-16.4
Kansas	101	88	81	363	416	-12.8
Kentucky Total	40,385	40,652	40,659	161,335	158,980	1.5
Eastern	30,186	30,254	30,472	119,803	117,220	2.2
Western	10,199	10,399	10,188	41,532	41,760	-.5
Louisiana	773	948	923	3,207	3,151	1.8
Maryland	887	606	1,019	3,371	3,773	-10.6
Missouri	604	749	606	2,795	2,304	21.3
Montana	10,289	10,927	10,167	38,999	38,237	2.0
New Mexico	6,798	6,613	5,907	24,716	21,518	14.9
North Dakota	8,507	7,637	7,757	31,697	29,530	7.3
Ohio	7,285	7,463	7,289	29,889	30,569	-2.2
Oklahoma	448	549	489	1,944	1,841	5.6
Pennsylvania Total	16,214	16,556	16,393	67,612	65,381	3.4
Anthracite	949	954	958	3,543	3,445	2.8
Bituminous	15,265	15,603	15,435	64,069	61,936	3.4
Tennessee	675	715	851	2,765	4,290	-35.5
Texas	13,384	14,895	13,054	54,589	53,825	1.4
Utah	5,920	4,294	5,619	21,332	21,945	-2.8
Virginia	11,323	10,904	10,067	44,954	41,954	7.2
Washington	1,240	1,332	1,412	5,252	5,143	2.1
West Virginia Total	41,288	39,557	42,794	164,914	167,352	-1.5
Northern	12,792	12,585	13,214	51,214	52,156	-1.8
Southern	28,495	26,972	29,581	113,700	115,196	-1.3
Wyoming	47,931	49,282	49,197	190,247	193,854	-1.9
Appalachian Total	114,444	111,765	115,551	458,759	457,808	.2
Interior Total	46,942	49,420	48,751	196,244	195,418	.4
Western Total	89,089	88,491	88,492	345,247	342,758	.7
East of the Miss. River	146,007	143,870	149,057	591,780	591,294	.1
West of the Miss. River	104,468	105,807	103,737	408,470	404,690	.9
U.S. Total	250,475	249,677	252,794	1,000,250	995,984	.4

Notes: Total may not equal sum of components because of independent rounding. See Technical Note 1 in Appendix C for differences between production and distribution.

Sources: Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report" and Form EIA-7A, "Coal Production Report"; Mine Safety and Health Administration, U.S. Department of Labor, Form 7000-2, "Quarterly Mine Employment and Coal Production Report"; and State mining agency coal production reports.

Table 5. Coke and Breeze Production at Coke Plants
(Thousand Short Tons)

Production	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
Coke Total	5,831	5,837	6,117	23,410	24,046	-2.6
By State						
Alabama	605	612	578	2,475	2,338	5.8
Illinois	w	w	w	w	w	w
Indiana	1,324	1,331	1,540	5,528	6,056	-8.7
Kentucky	w	w	w	w	w	w
Maryland	w	w	w	w	w	w
Michigan	w	w	w	w	w	w
New York	w	w	w	w	w	w
Ohio	636	699	653	2,725	2,632	3.5
Pennsylvania	1,829	1,765	1,792	6,983	6,204	12.6
Tennessee	w	w	w	w	w	w
Utah	w	w	w	w	w	w
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
By Plant Type						
Merchant Coke Plants	804	811	759	3,248	3,251	-.1
Furnace Coke Plants	5,028	5,026	5,358	20,162	20,795	-3.0
Breeze Total	396	470	491	1,721	1,734	-.8

^w Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly."

Distribution

A barge transports coal on the Chesapeake Bay to a Baltimore port facility. River transportation accounted for more than 15 percent of all domestic shipments in 1991.

Figure 4. Quarterly Domestic Coal Distribution by End-Use Sector, 1984-1992

Note: Each increment represents end-of-quarter data.
Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Table 6. Distribution of U.S. Coal by Origin State
(Thousand Short Tons)

Coal-Producing Region and State	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Alabama	6,179	6,339	6,595	25,491	27,679	-7.9
Alaska	459	277	450	1,531	1,483	3.2
Arizona	3,010	3,226	3,284	12,418	12,933	-4.0
Arkansas	7	11	-	32	1	NM
California	30	32	6	142	23	NM
Colorado	5,064	5,116	4,169	18,864	17,757	6.2
Illinois	14,245	14,881	15,013	58,913	58,553	.6
Indiana	7,287	7,458	8,341	31,393	31,412	-.1
Iowa	61	76	83	287	350	-17.8
Kansas	102	89	87	354	424	-16.5
Kentucky Total	40,911	42,454	40,592	161,860	158,290	2.3
Eastern	30,492	31,847	30,475	120,186	117,462	2.3
Western	10,419	10,607	10,117	41,674	40,828	2.1
Louisiana	776	944	921	3,208	3,151	1.8
Maryland	880	936	1,032	3,480	3,773	-7.8
Missouri	604	749	580	2,795	2,203	26.9
Montana	10,456	10,571	10,040	38,866	38,119	2.0
New Mexico	6,892	6,695	6,626	24,827	22,378	10.9
North Dakota	8,530	7,787	7,707	31,702	29,741	6.6
Ohio	7,051	7,278	7,156	29,550	30,023	-1.6
Oklahoma	514	530	490	1,954	1,867	4.7
Pennsylvania Total	16,431	17,232	16,876	67,649	65,454	3.4
Anthracite	971	951	984	3,554	3,182	11.7
Bituminous	15,460	16,281	15,892	64,095	62,272	2.9
Tennessee	717	711	845	2,837	4,274	-33.6
Texas	13,282	15,035	13,066	54,447	54,243	.4
Utah	6,003	4,865	5,440	21,052	21,444	-1.8
Virginia	11,567	11,354	10,315	45,728	43,495	5.1
Washington	1,261	1,316	1,382	5,283	5,096	3.7
West Virginia Total	41,278	39,365	42,321	163,723	165,576	-1.1
Northern	12,841	11,823	13,240	50,646	52,633	-3.8
Southern	28,438	27,542	29,081	113,077	112,943	.1
Wyoming	47,716	49,732	49,422	190,260	194,407	-2.1
Appalachian Total	114,595	115,062	115,615	458,645	457,735	.2
Interior Total	47,296	50,379	48,698	195,057	193,030	1.1
Western Total	89,421	89,618	88,526	344,945	343,381	.5
East of the Miss. River	146,546	148,007	149,086	590,624	588,527	.4
West of the Miss. River	104,765	107,052	103,752	408,023	405,619	.6
U.S. Total	251,312	255,060	252,838	998,647	994,146	.5

NM Not meaningful as value is greater than or equal to 500.

Notes: Total may not equal sum of components because of independent rounding. See Technical Note 1 for differences between production and distribution.

Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Table 7. Domestic Distribution of U.S. Coal to End-Use Sectors by Origin State
(Thousand Short Tons)

Coal-Producing Region and State	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Sector: Electric Generation						
Alabama	3,792	4,055	4,281	15,652	17,120	-8.6
Alaska	82	62	82	283	307	-7.9
Arizona	3,010	3,226	3,284	12,418	12,933	-4.0
California	28	26	-	114	-	-
Colorado	4,184	4,508	3,648	16,616	15,256	8.9
Illinois	12,503	13,296	13,320	52,581	52,489	.2
Indiana	6,208	6,334	7,106	27,057	26,723	1.2
Iowa	61	76	82	287	348	-17.4
Kansas	73	61	74	258	315	-18.1
Kentucky Total	31,370	32,822	30,171	123,939	119,261	3.9
Eastern	21,205	22,560	20,510	83,410	80,127	4.1
Western	10,165	10,262	9,661	40,529	39,134	3.6
Louisiana	776	944	921	3,208	3,151	1.8
Maryland	713	757	922	2,816	3,218	-12.5
Missouri	544	719	525	2,630	2,038	29.0
Montana	9,796	10,309	9,359	37,299	36,516	2.1
New Mexico	6,677	6,503	6,447	24,166	21,657	11.6
North Dakota	6,774	6,218	6,185	25,104	23,684	6.0
Ohio	6,274	6,718	6,421	26,803	27,168	-1.3
Oklahoma	245	315	285	1,138	1,114	2.2
Pennsylvania Total	12,393	12,716	11,670	49,937	47,734	4.6
Anthracite	308	371	294	1,147	1,132	1.4
Bituminous	12,085	12,345	11,377	48,790	46,603	4.7
Tennessee	443	489	513	1,873	2,886	-35.1
Texas	12,708	14,326	12,211	51,540	51,803	-.5
Utah	4,004	3,177	3,629	14,177	14,726	-3.7
Virginia	4,087	3,423	3,660	15,202	14,714	3.3
Washington	1,203	1,262	1,329	4,982	4,892	1.8
West Virginia Total	23,581	21,334	22,054	88,714	87,872	1.0
Northern	10,526	9,391	10,460	40,648	42,138	-3.5
Southern	13,055	11,942	11,594	48,066	45,734	5.1
Wyoming	45,993	47,989	47,574	183,923	188,302	-2.3
Appalachian Total	72,487	72,052	70,031	284,406	280,840	1.3
Interior Total	43,283	46,334	44,185	179,230	177,115	1.2
Western Total	81,732	83,279	81,537	319,082	318,273	.3
East of the Miss. River	101,363	101,945	100,118	404,574	399,186	1.3
West of the Miss. River	96,139	99,720	95,635	378,145	377,042	.3
U.S. Total	197,502	201,665	195,754	782,718	776,228	.8
Sector: Coke Plants						
Alabama	378	480	379	1,701	1,394	22.0
Colorado	35	40	24	106	171	-38.1
Illinois	134	126	197	555	696	-20.2
Kentucky Total	1,411	1,336	1,328	5,229	4,375	19.5
Eastern	1,411	1,336	1,328	5,229	4,375	19.5
Pennsylvania Total	814	889	893	3,542	3,513	.8
Anthracite	-	-	1	3	1	243.1
Bituminous	814	889	892	3,539	3,512	.8
Utah	160	117	166	507	615	-17.6
Virginia	2,089	2,020	1,561	8,143	6,230	30.7
West Virginia Total	2,961	2,363	3,351	11,724	12,894	-9.1
Northern	-	1	-	37	-	-
Southern	2,961	2,362	3,351	11,687	12,894	-9.4
Wyoming	12	-	-	12	-	NM
Appalachian Total	7,653	7,088	7,511	30,339	28,406	6.8
Interior Total	134	126	197	555	696	-20.2
Western Total	207	157	190	625	786	-20.5
East of the Miss. River	7,787	7,214	7,709	30,894	29,101	6.2
West of the Miss. River	207	157	190	625	786	-20.5
U.S. Total	7,994	7,371	7,899	31,519	29,887	5.5

See footnotes at end of table.

Table 7. Domestic Distribution of U.S. Coal to End-Use Sectors by Origin State (Continued)
(Thousand Short Tons)

Coal-Producing Region and State	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Sector: Industrial Plants (Except Coke)						
Alabama	560	495	522	2,026	1,781	13.8
Arkansas	4	11	-	29	1	NM
California	2	7	6	28	23	19.2
Colorado	404	402	375	1,363	1,597	-14.6
Illinois	1,210	1,069	987	4,215	3,751	12.4
Indiana	852	947	1,035	3,558	3,887	-8.5
Kansas	26	27	11	81	105	-23.5
Kentucky Total	4,276	4,079	4,622	15,812	16,359	-3.3
Eastern	4,113	3,836	4,373	15,066	15,335	-1.8
Western	163	243	249	746	1,024	-27.2
Maryland	3	87	79	355	355	*
Missouri	33	5	13	54	27	103.3
Montana	621	249	607	1,416	1,221	16.0
New Mexico	210	187	175	649	713	-9.0
North Dakota	1,715	1,564	1,482	6,513	5,943	9.6
Ohio	660	504	567	2,335	2,347	-.5
Oklahoma	267	202	205	800	749	6.8
Pennsylvania Total	1,202	1,105	1,302	4,560	4,655	-2.0
Anthracite	206	171	145	676	610	10.8
Bituminous	996	934	1,157	3,884	4,045	-4.0
Tennessee	246	191	293	853	1,192	-28.5
Texas	574	708	855	2,906	2,439	19.1
Utah	882	979	839	3,750	3,548	5.7
Virginia	1,071	920	1,123	4,061	4,041	.5
Washington	13	12	*	37	1	NM
West Virginia Total	2,602	2,678	2,899	10,288	9,759	5.4
Northern	632	787	871	2,816	3,005	-6.3
Southern	1,970	1,891	2,028	7,472	6,754	10.6
Wyoming	1,420	1,351	1,444	4,918	4,873	.9
Appalachian Total	10,543	9,816	11,158	39,545	39,465	.2
Interior Total	3,129	3,212	3,354	12,390	11,993	3.4
Western Total	5,267	4,752	4,929	18,674	17,919	4.2
East of the Miss. River	12,769	12,075	13,429	48,064	48,127	-.1
West of the Miss. River	8,170	5,706	6,012	22,545	21,240	6.1
U.S. Total	18,939	17,781	19,441	70,608	69,366	1.8
Sector: Residential and Commercial						
Alabama	27	19	4	87	10	NM
Alaska	157	96	154	514	504	2.1
Colorado	26	21	28	109	107	2.4
Illinois	106	69	92	315	350	-9.9
Indiana	165	66	114	409	417	-2.1
Iowa	-	-	1	-	1	-
Kansas	2	1	2	6	3	94.6
Kentucky Total	315	240	257	1,001	1,028	-2.6
Eastern	263	221	214	887	884	.4
Western	52	19	44	114	144	-21.1
Maryland	1	*	1	1	3	-44.3
Missouri	27	26	31	99	119	-16.1
Montana	20	8	38	63	70	-9.9
New Mexico	5	-	4	8	8	2.6
North Dakota	40	4	40	85	114	-25.6
Ohio	91	40	105	303	340	-10.6
Oklahoma	1	*	1	1	1	28.4
Pennsylvania Total	512	425	602	1,933	1,723	12.2
Anthracite	380	263	409	1,342	1,037	29.4
Bituminous	132	162	193	591	686	-13.8
Tennessee	15	19	15	61	101	-39.7
Utah	134	36	139	342	462	-25.9
Virginia	37	26	34	92	97	-4.9
Washington	*	-	1	*	1	-99.0
West Virginia Total	193	132	149	592	399	48.4
Northern	13	6	19	45	55	-17.3
Southern	180	126	130	546	344	58.8
Wyoming	53	8	88	128	237	-45.9

See footnotes at end of table.

Table 7. Domestic Distribution of U.S. Coal to End-Use Sectors by Origin State (Continued)
(Thousand Short Tons)

Coal-Producing Region and State	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Sector: Residential and Commercial (Continued)						
Appalachian Total	1,139	881	1,123	3,957	3,555	11.3
Interior Total	352	181	283	945	1,036	-8.7
Western Total	434	174	492	1,251	1,503	-16.8
East of the Miss. River	1,461	1,036	1,373	4,794	4,466	7.3
West of the Miss. River	464	200	526	1,358	1,628	-16.5
U.S. Total	1,925	1,236	1,899	6,153	6,094	1.0

* Quantity is less than 500 short tons or percent is less than .05.

nm Not meaningful as value is greater than or equal to 500.

Notes: Total may not equal sum of components because of independent rounding. Sectors do not sum to total distribution due to deliveries to unknown sectors.

Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Table 8. Foreign Distribution of U.S. Coal by Origin State, January-December 1992
(Thousand Short Tons)

Coal-Producing Region and State	Canada					Overseas ¹	Total
	Electric Utilities	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total		
Alabama	-	-	-	-	-	5,931	5,931
Alaska	-	-	-	-	-	734	734
Arkansas	-	-	-	-	-	3	3
Colorado	-	-	-	-	-	669	669
Illinois	-	-	-	-	-	1,242	1,242
Indiana	-	-	-	-	-	177	177
Kentucky Total	494	1,201	383	-	2,078	11,958	14,036
Eastern	494	1,201	383	-	2,078	11,737	13,815
Western	-	-	-	-	-	221	221
Maryland	-	-	-	-	-	234	234
Montana	-	-	-	-	-	62	62
New Mexico	-	-	-	-	-	5	5
Ohio	-	-	-	-	-	1	2
Oklahoma	-	-	-	-	-	14	14
Pennsylvania Total	1,262	3	318	16	1,599	4,841	6,440
Anthracite	-	3	231	1	235	89	324
Bituminous	1,262	-	87	15	1,364	4,752	6,116
Tennessee	-	-	-	-	-	2	2
Utah	-	-	-	-	-	2,260	2,260
Virginia	29	1,302	-	-	1,331	15,893	17,224
Washington	-	-	-	-	-	264	264
West Virginia Total	6,272	2,396	243	-	8,911	41,895	50,806
Northern	1,872	-	140	-	2,012	4,541	6,553
Southern	4,400	2,396	103	-	6,899	37,355	44,254
Wyoming	-	-	-	-	-	1,277	1,277
Appalachian Total	8,056	4,902	945	16	13,919	80,535	94,454
Interior Total	-	-	-	-	-	1,657	1,657
Western Total	-	-	-	-	-	5,269	5,269
East of the Miss. River	8,356	4,902	945	16	13,919	82,175	96,094
West of the Miss. River	-	-	-	-	-	5,286	5,286
U.S. Total	8,056	4,902	945	16	13,919	87,461	101,380

¹ Also includes Mexico.

* Quantity is less than 500 short tons.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Figure 5. Domestic Distribution of U.S. Coal by Leading State Destination, January-December 1992

Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Table 9. Distribution of U.S. Coal by Destination
(Thousand Short Tons)

Census Division and State of Destination	October-December 1992	July-September 1992	October-December 1991	Year to Date		
				1992	1991	Percent Change
New England Total	1,836	1,851	1,862	7,717	6,276	23.0
Connecticut	257	209	293	1,003	1,012	-8
Maine	206	193	173	866	209	313.7
Massachusetts	1,044	1,126	1,077	4,634	3,737	24.0
New Hampshire	323	316	315	1,189	1,302	-8.6
Rhode Island	2	1	2	5	4	17.3
Vermont	4	6	2	20	12	63.6
Middle Atlantic Total	18,343	18,160	17,779	73,087	69,990	4.4
New Jersey	691	422	424	2,433	1,878	29.6
New York	3,693	3,493	3,897	13,977	13,666	2.3
Pennsylvania	13,959	14,244	13,458	56,677	54,446	4.1
East North Central Total	49,144	50,772	51,928	201,713	202,545	-4
Illinois	7,615	7,897	7,944	31,186	33,031	-5.6
Indiana	14,495	14,894	15,631	60,970	57,105	6.8
Michigan	7,570	8,172	8,358	30,363	32,046	-5.3
Ohio	14,668	14,209	14,678	58,716	58,752	-1
Wisconsin	4,795	5,601	5,317	20,477	21,611	-5.2
West North Central Total	28,697	28,604	29,041	113,921	115,949	-1.7
Iowa	3,283	4,538	4,248	16,988	18,212	-6.7
Kansas	3,809	3,156	3,897	14,801	15,599	-5.1
Minnesota	5,060	4,346	4,736	17,224	18,051	-4.6
Missouri	5,655	6,420	6,102	24,207	24,602	-1.6
Nebraska	2,037	2,146	2,020	8,093	8,796	-8.0
North Dakota	8,067	7,429	7,267	30,022	27,831	7.9
South Dakota	786	568	770	2,586	2,859	-9.5
South Atlantic Total	38,796	36,714	36,181	145,219	143,809	1.0
Delaware	538	517	626	1,913	2,219	-13.8
District of Columbia	13	6	17	50	66	-23.8
Florida	6,046	6,218	5,823	24,351	23,378	4.2
Georgia	7,262	6,305	5,623	24,242	25,418	-4.6
Maryland	2,654	2,471	2,492	9,735	10,712	-9.1
North Carolina	7,221	7,120	5,705	25,801	22,054	17.0
South Carolina	2,969	2,874	3,090	11,338	11,332	.1
Virginia	3,789	3,479	4,421	14,915	15,159	-1.6
West Virginia	8,306	7,724	8,385	32,874	33,473	-1.8
East South Central Total	24,235	23,484	22,708	92,761	89,160	4.0
Alabama	7,556	7,698	7,503	28,741	28,739	*
Kentucky	8,850	8,524	8,309	33,497	31,656	5.8
Mississippi	792	897	989	3,965	3,966	*
Tennessee	7,037	6,365	5,906	26,559	24,799	7.1
West South Central Total	33,709	36,896	33,511	134,770	134,870	-1
Arkansas	3,214	2,896	3,067	11,807	12,481	-5.4
Louisiana	3,141	3,836	3,703	13,539	13,392	1.1
Oklahoma	5,103	5,157	4,285	18,362	17,136	7.2
Texas	22,251	25,006	22,455	91,062	91,862	-9
Mountain Total	28,374	28,393	29,289	110,007	108,329	1.5
Arizona	4,270	4,541	4,885	16,944	17,691	-4.2
Colorado	3,859	4,234	4,204	16,333	16,352	-1
Idaho	136	145	147	456	556	-18.0
Montana	3,088	3,131	3,175	11,245	10,924	2.9
Nevada	1,895	2,137	2,274	7,926	8,572	-7.5
New Mexico	4,123	3,925	4,053	14,899	13,194	12.9
Utah	4,636	3,467	3,686	15,707	15,619	.6
Wyoming	6,366	6,813	6,867	26,497	25,421	4.2
Pacific Total	3,236	3,183	2,700	11,844	10,664	11.1
Alaska	239	158	236	797	811	-1.7
California	717	752	650	2,955	2,833	4.3
Oregon	648	512	425	2,062	1,893	8.9
Washington	1,631	1,761	1,390	6,030	5,127	17.6
Unknown	1,481	1,728	1,404	6,226	4,288	45.2
U.S. Total	227,851	229,783	226,402	897,266	885,882	1.3
Canada	2,893	4,405	3,356	13,919	12,828	8.5
Overseas ¹	20,568	20,872	23,080	87,461	95,436	-8.4
Foreign Total	23,461	25,276	26,436	101,380	108,264	-6.4
Grand Total	251,312	255,060	252,838	998,647	994,146	.5

¹ Also includes Mexico.

* Quantity is less than 500 short tons or percent is less than .05.

Notes: Total may not equal sum of components because of independent rounding. See Technical Note 1 for differences between distribution and receipts.

Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Table 10. Domestic Distribution of U.S. Coal to End-Use Sectors by Destination State
(Thousand Short Tons)

Census Division and State of Destination	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Sector: Electric Generation						
New England Total	1,568	1,583	1,561	6,521	5,853	11.4
Connecticut	244	206	282	972	995	-2.3
Massachusetts	1,006	1,081	1,024	4,420	3,629	21.8
New Hampshire	317	296	256	1,129	1,229	-8.2
Middle Atlantic Total	13,582	13,900	12,909	55,033	53,602	2.7
New Jersey	651	376	414	2,213	1,680	31.7
New York	2,840	2,804	3,095	10,888	10,540	3.3
Pennsylvania	10,091	10,719	9,401	41,932	41,382	1.3
East North Central Total	40,855	42,987	43,297	170,731	170,938	-1
Illinois	6,022	6,508	6,199	25,537	26,871	-5.0
Indiana	11,582	12,027	12,626	49,330	45,799	7.7
Michigan	6,531	7,143	7,278	27,008	28,491	-5.2
Ohio	12,372	12,207	12,365	49,953	49,936	*
Wisconsin	4,348	5,103	4,828	18,903	19,842	-4.7
West North Central Total	25,424	25,615	26,292	102,174	105,754	-3.4
Iowa	2,990	3,999	4,083	15,314	17,105	-10.5
Kansas	3,742	3,111	3,851	14,641	15,467	-5.3
Minnesota	4,675	4,057	4,446	16,207	17,353	-6.6
Missouri	5,262	6,094	5,735	22,840	23,296	-2.0
Nebraska	1,904	2,078	1,918	7,818	8,583	-8.9
North Dakota	6,123	5,788	5,559	22,980	21,347	7.7
South Dakota	727	487	700	2,374	2,604	-8.8
South Atlantic Total	34,144	32,496	31,277	127,184	124,345	2.3
Delaware	494	497	585	1,755	2,031	-13.6
Florida	5,639	5,914	5,594	23,018	22,517	2.2
Georgia	6,915	5,948	5,201	22,702	23,476	-3.3
Maryland	2,465	2,300	2,280	9,023	9,274	-2.7
North Carolina	6,475	6,312	4,941	22,745	19,302	17.8
South Carolina	2,327	2,321	2,516	9,225	9,158	.7
Virginia	2,763	2,414	2,828	10,184	9,848	3.4
West Virginia	7,066	6,790	7,332	28,531	28,740	-.7
East South Central Total	20,638	20,329	19,217	79,599	77,070	3.3
Alabama	6,028	6,172	5,888	22,605	23,298	-3.0
Kentucky	7,851	7,751	7,229	30,130	28,550	5.5
Mississippi	722	839	938	3,742	3,821	-2.1
Tennessee	6,037	5,568	5,163	23,122	21,401	8.0
West South Central Total	32,331	35,505	31,889	129,389	129,891	-.4
Arkansas	3,151	2,834	3,008	11,571	12,268	-5.7
Louisiana	2,964	3,715	3,534	12,969	12,812	1.2
Oklahoma	4,864	4,955	4,081	17,622	16,462	7.0
Texas	21,352	24,001	21,266	87,227	88,349	-1.3
Mountain Total	26,704	26,899	27,535	103,891	101,775	2.1
Arizona	4,114	4,359	4,723	16,315	16,990	-4.0
Colorado	3,611	4,072	3,947	15,531	15,565	-.2
Montana	2,974	3,074	3,033	10,963	10,614	3.3
Nevada	1,862	2,085	2,235	7,751	8,375	-7.5
New Mexico	4,105	3,912	4,037	14,842	13,142	12.9
Utah	4,216	3,007	3,245	13,920	13,603	2.3
Wyoming	5,823	6,389	6,315	24,570	23,486	4.6
Pacific Total	2,258	2,349	1,777	8,195	6,999	17.1
Alaska	82	62	82	283	307	-7.9
California	36	58	-	163	-	-
Oregon	575	507	366	1,933	1,800	7.4
Washington	1,565	1,723	1,329	5,816	4,892	18.9
U.S. Total	197,502	201,665	195,754	782,718	776,228	.8
Sector: Coke Plants						
Middle Atlantic Total	2,516	2,318	2,532	10,020	8,698	15.2
New York	298	174	184	1,097	957	14.7
Pennsylvania	2,218	2,144	2,348	8,923	7,741	15.3
East North Central Total	3,230	3,211	3,079	13,150	12,348	6.5
Illinois	423	389	506	1,663	1,562	6.5
Indiana	1,698	1,788	1,687	7,110	6,884	3.3
Michigan	12	37	3	49	322	-84.7
Ohio	1,097	997	883	4,327	3,581	20.9
South Atlantic Total	871	616	747	2,842	3,714	-23.5
Maryland	-	-	22	-	354	-

See footnotes at end of table.

Table 10. Domestic Distribution of U.S. Coal to End-Use Sectors by Destination State (Continued)
(Thousand Short Tons)

Census Division and State of Destination	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Sector: Coke Plants (Continued)						
Virginia	191	202	247	878	973	-9.8
West Virginia	681	414	478	1,964	2,387	-17.7
East South Central Total	1,131	958	1,285	4,466	3,904	14.2
Alabama	665	668	857	2,915	3,009	-3.1
Kentucky	453	290	427	1,517	895	69.6
Tennessee	12	-	-	24	-	-
Mountain Total	246	289	256	1,051	1,224	-14.1
Utah	246	269	256	1,051	1,224	-14.1
U.S. Total	7,994	7,371	7,899	31,519	29,887	5.5
Sector: Industrial Plants (Except Coke)						
New England Total	228	224	258	1,056	339	211.5
Connecticut	-	-	4	11	4	176.4
Maine	198	177	166	830	196	322.5
Massachusetts	28	28	38	156	81	92.2
New Hampshire	-	15	49	45	50	-11.0
Vermont	2	4	-	14	7	98.3
Middle Atlantic Total	1,751	1,535	1,766	6,118	5,992	2.1
New Jersey	37	42	6	205	187	9.8
New York	494	437	545	1,716	1,890	-9.2
Pennsylvania	1,220	1,057	1,216	4,197	3,915	7.2
East North Central Total	4,596	4,248	5,083	16,328	17,804	-8.3
Illinois	1,090	915	1,156	3,703	4,340	-14.7
Indiana	1,054	1,015	1,195	4,090	3,988	2.6
Michigan	1,001	915	1,001	3,117	2,970	4.9
Ohio	1,006	906	1,244	3,848	4,747	-18.9
Wisconsin	444	497	488	1,570	1,759	-10.8
West North Central Total	3,152	2,902	2,591	11,303	9,474	19.3
Iowa	292	519	150	1,610	884	82.0
Kansas	67	45	45	159	132	20.9
Minnesota	380	288	266	992	603	64.5
Missouri	333	274	306	1,140	1,054	8.2
Nebraska	131	65	99	269	202	33.2
North Dakota	1,891	1,631	1,655	6,921	6,347	9.0
South Dakota	59	81	69	211	252	-16.0
South Atlantic Total	3,528	3,485	4,005	14,551	15,247	-4.6
Delaware	43	20	32	157	168	-6.6
Florida	392	304	228	1,317	861	52.9
Georgia	340	344	420	1,501	1,934	-22.4
Maryland	186	167	177	698	1,042	-33.0
North Carolina	641	773	743	2,853	2,655	7.5
South Carolina	626	547	569	2,082	2,152	-3.2
Virginia	771	828	1,303	3,661	4,199	-12.8
West Virginia	530	504	533	2,281	2,236	2.0
East South Central Total	2,279	2,095	2,105	8,246	7,809	5.6
Alabama	835	839	755	3,132	2,415	29.7
Kentucky	466	427	591	1,635	2,023	-19.2
Mississippi	70	58	51	223	146	52.7
Tennessee	909	770	709	3,256	3,225	1.0
West South Central Total	1,374	1,389	1,618	5,368	4,967	8.1
Arkansas	63	62	59	234	212	10.0
Louisiana	177	121	170	569	579	-1.7
Oklahoma	238	202	203	740	673	9.9
Texas	896	1,004	1,186	3,825	3,502	9.2
Mountain Total	1,239	1,176	1,260	4,597	4,698	-2.2
Arizona	154	181	162	625	701	-10.9
Colorado	224	153	234	744	722	3.0
Idaho	116	135	122	405	488	-17.0
Montana	111	56	118	261	265	-1.4
Nevada	33	52	38	174	195	-10.7
New Mexico	13	12	11	48	44	11.0
Utah	94	170	84	512	487	5.1
Wyoming	495	418	491	1,827	1,796	1.7
Pacific Total	791	726	754	3,042	3,035	.2
California	681	694	650	2,792	2,788	.1
Oregon	73	6	59	128	93	38.5
Washington	37	27	45	122	155	-21.1

See footnotes at end of table.

Table 10. Domestic Distribution of U.S. Coal to End-Use Sectors by Destination State (Continued)
(Thousand Short Tons)

Census Division and State of Destination	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Sector: Industrial Plants (Except Coke) (Continued)						
U.S. Total	18,939	17,781	19,441	70,608	69,366	1.8
Sector: Residential and Commercial						
New England Total	40	44	43	141	84	67.8
Connecticut	13	3	7	20	13	60.2
Maine	8	16	7	36	13	178.9
Massachusetts	10	17	15	58	27	115.3
New Hampshire	6	5	10	16	22	-29.6
Rhode Island	2	1	2	5	4	17.3
Vermont	2	2	2	6	5	17.3
Middle Atlantic Total	495	407	572	1,916	1,698	12.8
New Jersey	3	4	5	15	11	41.1
New York	61	78	74	275	279	-1.5
Pennsylvania	431	324	493	1,626	1,408	15.5
East North Central Total	456	325	467	1,476	1,453	1.6
Illinois	80	85	83	283	257	10.1
Indiana	155	64	120	411	433	-5.0
Michigan	25	77	77	189	264	-28.3
Ohio	194	99	186	588	489	20.2
Wisconsin	3	.	.	4	10	-57.8
West North Central Total	121	86	158	444	721	-38.4
Iowa	.	20	15	64	223	-71.3
Kansas	.	.	.	.	.	NM
Minnesota	5	.	23	25	94	-73.7
Missouri	60	53	61	227	252	-9.9
Nebraska	1	3	3	6	11	-47.3
North Dakota	53	10	53	121	136	-11.4
South Dakota	-	-	2	1	4	-70.7
South Atlantic Total	250	114	148	632	490	28.9
Delaware	.	.	9	.	20	-98.2
District of Columbia	13	6	17	50	66	-23.8
Florida	15	.	.	16	.	NM
Georgia	7	14	1	38	8	385.5
Maryland	3	4	14	13	42	-68.6
North Carolina	104	35	22	204	97	109.1
South Carolina	16	7	5	31	22	38.1
Virginia	65	35	43	192	139	38.8
West Virginia	27	13	37	87	96	-10.0
East South Central Total	187	101	100	458	376	21.8
Alabama	28	19	3	89	17	432.7
Kentucky	79	55	62	212	187	13.7
Mississippi	.	-	.	.	.	NM
Tennessee	79	27	35	157	172	-9.1
West South Central Total	4	2	4	13	12	10.0
Arkansas	.	.	.	2	.	420.9
Louisiana	-	-	.	-	.	-
Oklahoma	.	.	.	1	1	48.5
Texas	4	1	3	10	11	-7.7
Mountain Total	185	49	238	467	631	-26.0
Arizona	2	1	.	4	.	NM
Colorado	24	10	23	58	65	-9.5
Idaho	21	10	25	51	68	-25.4
Montana	4	1	24	21	45	-53.1
Nevada	.	.	1	1	2	-20.2
New Mexico	5	.	4	9	8	9.4
Utah	80	21	100	223	395	-26.7
Wyoming	48	7	61	99	138	-28.1
Pacific Total	187	108	170	607	630	-3.7
Alaska	157	96	154	514	504	2.1
California	.	-	.	.	44	-99.6
Oregon	.	.	.	1	1	-45.5
Washington	29	12	16	91	80	13.7
U.S. Total	1,925	1,236	1,899	6,153	6,094	1.0

* Quantity is less than 500 short tons or percent is less than .05.

NM Not meaningful as value is greater than or equal to 500.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Figure 6. Quarterly Domestic Coal Distribution by Method of Transportation, 1984-1992

Note: Each increment represents end of quarter date. Other methods of transportation include tramway, conveyor, or slurry pipeline.
Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Table 11. Domestic Distribution of U.S. Coal by Method of Transportation and Origin State
(Thousand Short Tons)

Coal-Producing Region and State	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Method of Transportation: Rail						
Alabama	1,582	1,635	1,937	6,375	7,218	-11.7
Alaska	195	120	187	647	645	.3
Arizona	1,967	1,924	2,172	7,441	7,869	-5.4
Colorado	3,569	3,723	2,957	13,708	12,703	7.9
Illinois	7,292	7,754	7,842	31,155	30,233	3.0
Indiana	3,634	3,801	4,594	17,110	17,268	-.9
Kansas	8	9	-	21	27	-22.4
Kentucky Total	21,751	22,918	21,548	85,958	84,249	2.0
Eastern	19,440	20,186	19,129	75,783	74,705	1.4
Western	2,312	2,731	2,419	10,175	9,544	6.6
Maryland	558	560	797	2,168	2,689	-19.4
Missouri	-	16	21	88	57	55.4
Montana	5,693	6,114	5,501	22,226	21,322	4.2
New Mexico	3,038	3,023	2,828	10,885	10,122	7.5
North Dakota	787	465	978	2,841	3,935	-27.8
Ohio	330	439	515	2,195	2,402	-8.6
Oklahoma	46	47	47	182	190	-4.1
Pennsylvania Total	6,951	7,224	6,248	28,336	25,669	10.4
Anthracite	41	63	58	196	189	3.5
Bituminous	6,911	7,162	6,190	28,140	25,480	10.4
Tennessee	376	454	493	1,715	2,730	-37.2
Texas	6,168	6,725	6,301	25,321	23,983	5.6
Utah	2,549	2,540	2,548	9,725	10,503	-7.4
Virginia	6,032	5,317	5,148	22,336	20,520	8.9
Washington	27	7	-	34	-	-
West Virginia Total	15,903	14,292	15,550	59,721	60,910	-2.0
Northern	3,929	3,594	4,286	15,011	17,211	-12.8
Southern	11,973	10,698	11,263	44,709	43,699	2.3
Wyoming	41,224	42,183	42,560	162,783	167,197	-2.6
Appalachian Total	51,172	50,106	49,816	198,629	196,843	.9
Interior Total	19,460	21,084	21,225	84,051	81,302	3.4
Western Total	59,049	60,099	59,733	230,289	234,297	-1.7
East of the Miss. River	64,409	64,394	64,671	257,068	253,889	1.3
West of the Miss. River	65,271	66,897	66,103	255,901	258,554	-1.0
U.S. Total	129,681	131,291	130,774	512,969	512,443	.1
Method of Transportation: River						
Alabama	519	718	569	2,377	2,361	0.7
Colorado	38	114	-	239	-	-
Illinois	5,309	5,189	4,942	20,299	18,945	7.1
Indiana	1,238	1,216	1,445	4,549	6,164	-26.2
Kentucky Total	10,068	10,133	9,552	39,094	38,205	2.3
Eastern	3,568	3,949	3,591	14,174	14,025	1.1
Western	6,500	6,183	5,961	24,920	24,180	3.1
Montana	-	-	46	-	170	-
Ohio	1,894	1,918	1,754	7,375	7,653	-3.6
Pennsylvania Total	2,070	2,127	1,930	8,468	7,066	19.8
Anthracite	-	-	-	?	-	-
Bituminous	2,070	2,127	1,930	8,466	7,066	19.8
Tennessee	189	146	198	654	946	-30.9
Virginia	643	674	436	2,529	1,863	35.7
West Virginia Total	9,083	8,378	8,676	34,740	33,639	3.3
Northern	4,034	3,927	3,863	16,162	15,952	1.3
Southern	5,049	4,451	4,813	18,578	17,687	5.0
Wyoming	2,521	2,911	2,996	11,010	12,583	-12.5
Appalachian Total	17,965	17,910	17,154	70,317	67,553	4.1
Interior Total	13,047	12,588	12,348	49,768	49,289	1.0
Western Total	2,559	3,026	3,042	11,249	12,753	-11.8
East of the Miss. River	31,012	30,498	29,502	120,085	116,842	2.8
West of the Miss. River	2,559	3,026	3,042	11,249	12,753	-11.8
U.S. Total	33,571	33,524	32,544	131,334	129,595	1.3

See footnotes at end of table.

Table 11. Domestic Distribution of U.S. Coal by Method of Transportation and Origin State (Continued)
(Thousand Short Tons)

Coal-Producing Region and State	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Method of Transportation: Great Lakes						
Illinois	6	27	-	39	32	21.1
Indiana	126	145	80	394	310	27.1
Kentucky Total	1,145	930	970	2,968	2,677	10.9
Eastern	1,145	930	962	2,961	2,596	14.0
Western	-	-	7	8	80	-90.7
Montana	1,928	1,692	1,553	6,353	6,277	1.2
Ohio	-	-	21	14	78	-82.0
Pennsylvania Total	317	281	200	967	709	36.5
Bituminous	317	281	200	967	709	36.5
Tennessee	21	-	-	21	24	-13.2
Virginia	47	72	-	131	18	NM
West Virginia Total	167	307	252	672	708	-5.0
Northern	80	139	126	277	381	-27.2
Southern	87	168	126	395	327	20.8
Wyoming	480	617	183	1,479	662	123.3
Appalachian Total	1,697	1,590	1,435	4,767	4,133	15.3
Interior Total	132	172	88	440	423	4.2
Western Total	2,408	2,309	1,736	7,832	6,939	12.9
East of the Miss. River	1,830	1,762	1,523	5,207	4,555	14.3
West of the Miss. River	2,408	2,309	1,736	7,832	6,939	12.9
U.S. Total	4,238	4,071	3,259	13,039	11,494	13.4
Method of Transportation: Tidewater						
Illinois	-	-	-	48	-	-
Kentucky Total	647	921	963	3,538	3,108	13.8
Eastern	647	921	963	3,538	2,924	21.0
Western	-	-	-	-	184	-
Ohio	-	-	-	-	172	-
Pennsylvania Total	2	41	-	43	100	-57.2
Bituminous	2	41	-	43	100	-57.2
Virginia	235	17	511	1,165	1,594	-26.9
West Virginia Total	1,354	1,126	946	4,760	3,873	22.9
Northern	790	533	691	2,702	2,477	9.1
Southern	564	592	254	2,058	1,396	47.4
Appalachian Total	2,238	2,104	2,419	9,506	8,664	9.7
Interior Total	-	-	-	48	184	-74.0
East of the Miss. River	2,238	2,104	2,419	9,554	8,848	8.0
U.S. Total	2,238	2,104	2,419	9,554	8,848	8.0
Method of Transportation: Truck						
Alabama	2,213	2,280	2,211	8,828	8,954	-1.4
Alaska	44	38	48	150	166	-9.4
Arkansas	4	11	-	29	1	NM
California	30	32	6	142	23	NM
Colorado	1,022	1,134	1,117	4,249	4,426	-4.0
Illinois	1,115	1,013	1,233	4,488	5,680	-21.0
Indiana	2,062	2,027	2,055	8,333	6,670	24.9
Iowa	61	76	83	287	350	-17.8
Kansas	93	80	87	324	397	-18.3
Kentucky Total	3,444	2,939	2,674	12,226	10,189	20.0
Eastern	2,179	1,962	1,767	8,105	6,407	26.5
Western	1,265	977	906	4,120	3,782	8.9
Louisiana	120	185	138	555	410	35.4
Maryland	236	274	197	971	861	12.8
Missouri	98	66	83	286	331	-13.6
Montana	106	55	122	276	380	-27.5
New Mexico	4	-	4	7	7	1.9
North Dakota	1,058	1,096	1,139	4,365	4,127	5.8
Ohio	3,033	2,938	2,748	11,944	10,637	12.3
Oklahoma	466	471	443	1,758	1,674	5.0
Pennsylvania Total	3,690	3,778	3,899	14,909	14,391	3.6

See footnotes at end of table.

Table 11. Domestic Distribution of U.S. Coal by Method of Transportation and Origin State (Continued)
(Thousand Short Tons)

Coal-Producing Region and State	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Method of Transportation: Truck (Continued)						
Anthracite	735	628	684	2,578	2,173	18.6
Bituminous	2,955	3,151	3,214	12,331	12,217	.9
Tennessee	118	100	131	396	479	-17.4
Texas	3,253	3,622	2,868	13,233	12,987	1.9
Utah	1,915	1,143	1,574	6,269	6,130	2.3
Virginia	127	100	28	426	83	415.0
Washington	18	14	1	45	2	NM
West Virginia Total	1,474	1,225	1,673	6,102	6,740	-9.5
Northern	1,015	836	1,061	4,178	4,233	-1.3
Southern	459	390	613	1,923	2,507	-23.3
Wyoming	1,165	883	923	3,641	3,089	17.9
Appalachian Total	13,070	12,658	12,656	51,680	48,551	6.4
Interior Total	8,538	8,528	7,895	33,413	32,281	3.5
Western Total	5,363	4,394	4,933	19,143	18,350	4.3
East of the Miss. River	17,511	16,675	16,850	68,621	64,683	6.1
West of the Miss. River	9,459	8,904	8,634	35,615	34,499	3.2
U.S. Total	26,970	25,580	25,484	104,236	99,183	5.1
Method of Transportation: Tramway, Conveyor and Slurry Pipeline						
Alabama	408	383	437	1,743	1,652	5.5
Arizona	1,043	1,302	1,111	4,977	5,064	-1.7
Illinois	224	573	572	1,613	2,368	-31.9
Indiana	166	156	80	635	605	5.0
Kentucky Total	302	633	659	2,164	2,529	-14.4
Western	302	633	659	2,164	2,529	-14.4
Louisiana	656	759	786	2,653	2,741	-3.2
Missouri	506	668	464	2,409	1,796	34.2
Montana	2,709	2,705	2,782	9,924	9,658	2.8
New Mexico	3,850	3,667	3,794	13,929	12,248	13.7
North Dakota	6,684	6,226	5,590	24,496	21,678	13.0
Ohio	1,766	1,965	2,053	7,904	8,906	-11.2
Pennsylvania Total	1,865	1,669	2,173	7,167	9,628	-25.6
Anthracite	117	115	105	390	413	-5.7
Bituminous	1,748	1,554	2,068	6,778	9,215	-26.5
Texas	3,861	4,687	3,896	15,893	17,272	-8.0
Utah	715	624	650	2,778	2,713	2.4
Virginia	191	202	247	878	973	-9.8
Washington	1,171	1,253	1,329	4,941	4,892	1.0
West Virginia Total	1,318	1,152	1,315	5,198	4,921	5.6
Northern	1,318	1,152	1,315	5,198	4,921	5.6
Wyoming	2,084	2,754	2,440	10,059	9,866	2.0
Appalachian Total	5,548	5,370	6,225	22,890	26,080	-12.2
Interior Total	5,713	7,476	6,456	25,368	27,311	-7.1
Western Total	18,255	18,531	17,696	71,103	66,117	7.5
East of the Miss. River	6,239	6,732	7,535	27,303	31,582	-13.5
West of the Miss. River	23,277	24,645	22,842	92,059	87,926	4.7
U.S. Total	29,516	31,377	30,377	119,362	119,508	-.1

NM Not meaningful as value is greater than or equal to 500.

Notes: Total may not equal sum of components because of independent rounding. Methods of transportation do not sum to total distribution due to unknown methods of transportation.

Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Table 12. Domestic Distribution of U.S. Coal by Method of Transportation and Destination State
(Thousand Short Tons)

Census Division and State of Destination	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Method of Transportation: Rail						
New England Total	699	902	716	3,415	2,482	37.6
Connecticut	46	23	17	131	245	-46.7
Maine	7	13	7	229	39	491.4
Massachusetts	364	567	401	1,974	1,195	65.2
New Hampshire	281	297	292	1,080	996	8.5
Rhode Island	-	-	-	.	.	NM
Vermont	1	1	.	2	8	-73.7
Middle Atlantic Total	8,043	7,423	7,511	30,613	28,753	6.5
New Jersey	479	373	180	1,539	953	61.5
New York	3,060	2,971	3,313	11,662	11,620	.4
Pennsylvania	4,504	4,079	4,018	17,412	16,179	7.6
East North Central Total	26,299	28,601	28,855	113,519	110,502	2.7
Illinois	5,518	5,366	4,862	21,502	19,790	8.7
Indiana	9,143	10,200	10,165	40,895	36,940	10.7
Michigan	4,393	5,214	5,539	20,146	22,052	-8.6
Ohio	2,948	3,178	3,324	13,291	12,505	6.3
Wisconsin	4,298	4,643	4,964	17,685	19,215	-8.0
West North Central Total	18,761	17,706	19,685	73,253	78,177	-6.3
Iowa	3,134	3,618	3,928	14,234	14,889	-4.4
Kansas	3,719	3,086	3,826	14,522	15,361	-5.5
Minnesota	4,712	3,909	4,464	16,170	17,443	-7.3
Missouri	4,179	4,409	4,284	16,944	17,328	-2.2
Nebraska	2,037	2,146	2,020	8,093	8,796	-8.0
North Dakota	324	108	538	1,161	2,024	-42.6
South Dakota	656	430	626	2,129	2,335	-8.8
South Atlantic Total	27,190	25,999	24,899	101,115	101,746	-6
Delaware	516	513	615	1,825	2,202	-17.1
District of Columbia	12	6	14	45	57	-21.7
Florida	2,782	2,784	2,500	11,228	10,734	4.6
Georgia	5,638	4,968	4,205	18,782	20,709	-9.3
Maryland	1,859	1,763	1,967	7,066	8,695	-18.7
North Carolina	7,096	7,005	5,615	25,366	21,691	16.9
South Carolina	2,882	2,790	3,031	11,021	11,128	-1.0
Virginia	3,251	3,016	3,707	12,554	12,872	-2.5
West Virginia	3,155	3,154	3,245	13,227	13,659	-3.2
East South Central Total	8,751	8,904	9,107	35,025	35,749	-2.0
Alabama	2,642	2,651	2,935	9,883	10,746	-8.0
Kentucky	2,832	3,026	3,152	11,735	11,920	-1.6
Mississippi	343	541	574	1,826	2,211	-17.4
Tennessee	2,933	2,686	2,446	11,581	10,871	6.5
West South Central Total	24,080	25,642	23,776	95,119	94,159	1.0
Arkansas	3,174	2,850	3,033	11,655	12,367	-5.8
Louisiana	1,084	1,372	1,178	4,754	4,632	2.7
Oklahoma	4,689	4,724	3,874	16,793	15,562	7.9
Texas	15,134	16,696	15,691	61,917	61,599	.5
Mountain Total	13,887	14,267	14,912	54,348	55,298	-1.7
Arizona	4,268	4,535	4,878	16,915	17,672	-4.3
Colorado	2,846	3,122	3,092	12,145	11,987	1.3
Idaho	98	129	101	349	354	-1.4
Montana	264	359	256	1,007	886	13.7
Nevada	831	799	1,148	2,868	3,465	-17.2
New Mexico	250	241	236	892	874	2.1
Utah	2,087	1,767	1,548	6,917	7,021	-1.5
Wyoming	3,243	3,316	3,653	13,255	13,030	1.7
Pacific Total	1,971	1,846	1,314	6,562	5,577	17.7
Alaska	195	120	187	647	645	.3
California	686	719	644	2,811	2,808	.1
Oregon	648	512	424	2,061	1,892	8.9
Washington	442	494	59	1,042	232	350.0
U.S. Total	129,681	131,291	130,774	512,969	512,443	.1
Method of Transportation: River						
Middle Atlantic Total	4,410	5,252	4,138	19,458	16,776	16.0
New Jersey	-	30	37	60	138	-56.4
New York	154	257	248	1,004	887	13.2
Pennsylvania	4,256	4,964	3,853	18,394	15,750	16.8
East North Central Total	10,567	9,613	11,012	40,172	45,036	-10.8

See footnotes at end of table.

Table 12. Domestic Distribution of U.S. Coal by Method of Transportation and Destination State (Continued)
(Thousand Short Tons)

Census Division and State of Destination	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Method of Transportation: River (Continued)						
Illinois	667	808	1,204	3,088	4,919	-37.2
Indiana	3,218	2,601	3,499	11,525	13,330	-13.5
Michigan	3	2	6	6	15	-59.0
Ohio	6,875	5,849	6,200	24,395	25,403	-4.0
Wisconsin	3	353	102	1,158	1,369	-15.4
West North Central Total	752	2,059	1,328	6,454	7,428	-13.1
Iowa	54	841	233	2,426	2,959	-18.0
Kansas	20	11	27	34	64	-46.1
Minnesota	13	53	27	142	217	-34.4
Missouri	665	1,154	1,042	3,850	4,189	-8.1
South Atlantic Total	7,096	6,378	6,481	25,283	23,749	6.5
Delaware	19	1	10	77	13	494.8
Florida	2,993	2,918	2,837	11,113	10,243	8.5
Georgia	1,535	1,296	1,354	5,232	4,513	15.9
Maryland	-	-	-	-	94	-100.0
North Carolina	-	-	2	-	2	-
South Carolina	19	12	-	44	-	-
Virginia	50	20	-	70	1	NM
West Virginia	2,480	2,131	2,278	8,747	8,883	-1.5
East South Central Total	9,456	8,693	7,975	34,368	30,984	10.9
Alabama	2,294	2,372	1,889	8,233	7,101	15.9
Kentucky	2,884	2,471	2,470	9,888	9,254	6.8
Mississippi	421	336	401	2,071	1,724	20.1
Tennessee	3,858	3,514	3,215	14,177	12,904	9.9
West South Central Total	1,289	1,529	1,610	5,599	5,623	-4
Arkansas	-	-	-	2	-	-
Louisiana	1,282	1,520	1,604	5,576	5,605	-5
Oklahoma	7	8	6	21	15	44.6
Texas	-	-	-	-	3	-
U.S. Total	33,571	33,524	32,544	131,334	129,595	1.3
Method of Transportation: Great Lakes						
Middle Atlantic Total	143	104	31	255	90	183.6
New York	143	17	30	166	37	350.5
Pennsylvania	-	87	1	89	53	67.4
East North Central Total	3,759	3,584	2,983	11,874	11,048	7.5
Illinois	49	15	-	85	326	-73.9
Indiana	73	-	-	73	-	-
Michigan	3,026	2,867	2,662	9,740	9,483	2.7
Ohio	118	98	74	355	281	26.4
Wisconsin	494	604	247	1,621	957	69.3
West North Central Total	335	383	244	911	357	155.4
Minnesota	335	383	244	911	352	159.0
South Dakota	-	-	-	-	5	-
U.S. Total	4,238	4,071	3,259	13,039	11,494	13.4
Method of Transportation: Tidewater						
New England Total	1,100	928	1,102	4,188	3,678	13.9
Connecticut	198	183	269	842	754	11.6
Maine	194	177	162	627	162	287.2
Massachusetts	671	553	657	2,624	2,475	6.0
New Hampshire	37	15	15	96	287	-66.7
Middle Atlantic Total	207	15	192	817	786	3.9
New Jersey	207	15	192	817	753	8.5
Pennsylvania	-	-	-	-	34	-
South Atlantic Total	930	1,161	1,124	4,549	4,380	3.9
Florida	270	514	485	2,005	2,395	-16.3
Maryland	538	532	355	1,862	1,367	36.1
Virginia	122	115	284	602	617	10.4
West South Central Total	-	-	-	-	4	-
Louisiana	-	-	-	-	4	-
U.S. Total	2,238	2,104	2,419	9,554	8,848	8.0

See footnotes at end of table.

Table 12. Domestic Distribution of U.S. Coal by Method of Transportation and Destination State (Continued)
(Thousand Short Tons)

Census Division and State of Destination	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Method of Transportation: Truck						
New England Total	37	22	44	114	116	-1.9
Connecticut	13	3	7	31	12	154.7
Maine	4	2	4	10	9	13.8
Massachusetts	9	6	20	37	68	-46.0
New Hampshire	5	4	9	14	19	-27.8
Rhode Island	2	1	2	5	4	17.3
Vermont	4	5	1	18	4	324.0
Middle Atlantic Total	3,649	3,682	3,716	14,695	13,895	5.8
New Jersey	5	4	15	17	33	-49.2
New York	336	248	306	1,145	1,122	2.0
Pennsylvania	3,308	3,430	3,396	13,533	12,740	6.2
East North Central Total	6,346	6,272	6,369	25,939	24,154	7.4
Illinois	1,150	1,130	1,298	4,872	5,601	-13.0
Indiana	1,889	1,935	1,884	7,810	6,216	25.7
Michigan	148	89	151	472	495	-4.8
Ohio	3,159	3,118	3,031	12,771	11,771	8.5
Wisconsin	1	.	4	13	70	-81.0
West North Central Total	1,658	1,562	1,728	6,397	6,513	-1.8
Iowa	94	79	88	328	364	-10.1
Kansas	71	59	44	244	174	40.3
Minnesota	-	-	-	.	39	-100.0
Missouri	305	190	313	1,004	1,290	-22.2
Nebraska	.	.	-	.	-	-
North Dakota	1,058	1,096	1,139	4,365	4,127	5.8
South Dakota	130	139	145	457	519	-11.9
South Atlantic Total	2,013	1,776	2,047	7,987	7,719	3.5
Delaware	3	3	1	11	4	190.7
District of Columbia	1	-	3	6	9	-37.1
Florida	.	1	.	5	6	-22.8
Georgia	88	41	63	227	195	16.1
Maryland	248	165	161	774	530	46.0
North Carolina	124	115	88	435	361	20.4
South Carolina	69	73	59	273	204	33.7
Virginia	166	119	175	700	664	5.3
West Virginia	1,312	1,259	1,496	5,557	5,744	-3.3
East South Central Total	5,268	4,832	4,487	19,282	18,060	6.8
Alabama	2,178	2,259	2,210	8,739	9,120	-4.2
Kentucky	2,818	2,388	2,017	9,674	7,885	22.7
Mississippi	27	20	14	68	32	112.9
Tennessee	245	165	245	800	1,023	-21.7
West South Central Total	3,823	4,278	3,443	15,506	15,070	2.9
Arkansas	40	45	34	151	114	32.4
Louisiana	120	185	136	555	410	35.4
Oklahoma	407	425	405	1,548	1,559	-7
Texas	3,257	3,623	2,868	13,252	12,988	2.0
Mountain Total	4,080	3,071	3,593	13,976	13,460	3.8
Arizona	2	6	6	29	19	49.9
Colorado	1,013	1,112	1,111	4,187	4,363	-4.0
Idaho	38	16	46	107	202	-47.2
Montana	114	68	136	315	381	-17.3
Nevada	21	36	14	81	43	88.5
New Mexico	23	17	22	77	71	8.0
Utah	1,834	1,074	1,487	6,008	5,880	2.2
Wyoming	1,035	743	770	3,174	2,502	26.8
Pacific Total	95	84	57	340	195	74.4
Alaska	44	38	48	150	166	-9.4
California	31	33	6	143	25	475.5
Oregon	.	.	.	1	1	-45.5
Washington	19	14	2	46	3	NM
U.S. Total	26,970	25,580	25,484	104,236	99,183	5.1
Method of Transportation: Tramway, Conveyor and Slurry Pipeline						
Middle Atlantic Total	1,865	1,669	2,173	7,167	9,628	-25.6
Pennsylvania	1,865	1,669	2,173	7,167	9,628	-25.6
East North Central Total	2,155	2,694	2,699	10,143	11,759	-13.7
Illinois	224	573	572	1,613	2,368	-31.9
Indiana	166	156	80	635	605	5.0

See footnotes at end of table.

Table 12. Domestic Distribution of U.S. Coal by Method of Transportation and Destination State (Continued)
(Thousand Short Tons)

Census Division and State of Destination	October- December 1992	July- September 1992	October- December 1991	Year to Date		
				1992	1991	Percent Change
Method of Transportation: Tramway, Conveyor and Slurry Pipeline (Continued)						
Ohio	1,766	1,965	2,047	7,895	8,785	-10.1
West North Central Total	7,190	6,893	6,054	26,905	23,473	14.6
Missouri	506	668	464	2,409	1,796	34.2
North Dakota	6,684	6,226	5,590	24,496	21,678	13.0
South Atlantic Total	1,509	1,354	1,568	6,086	6,014	1.2
Virginia	191	202	247	878	973	-9.8
West Virginia	1,318	1,152	1,321	5,208	5,041	3.3
East South Central Total	710	1,016	1,095	3,907	4,181	-6.6
Alabama	408	383	437	1,743	1,652	5.5
Kentucky	302	633	659	2,164	2,529	4.4
West South Central Total	4,517	5,446	4,682	18,547	20,013	-7.3
Louisiana	656	759	786	2,653	2,741	-3.2
Texas	3,861	4,687	3,896	15,893	17,272	-8.0
Mountain Total	10,400	11,052	10,777	41,666	39,548	5.4
Montana	2,709	2,705	2,782	9,924	9,658	2.8
Nevada	1,043	1,302	1,111	4,977	5,064	-1.7
New Mexico	3,850	3,667	3,794	13,929	12,248	13.7
Utah	715	624	650	2,778	2,713	2.4
Wyoming	2,084	2,754	2,441	10,059	9,866	2.0
Pacific Total	1,171	1,253	1,329	4,941	4,892	1.0
Washington	1,171	1,253	1,329	4,941	4,892	1.0
U.S. Total	29,516	31,377	30,377	119,362	119,508	-.1

* Quantity is less than 500 short tons or percent is less than .05.

nm Not meaningful as value is greater than or equal to 500.

Notes: Total may not equal sum of components because of independent rounding. Methods of transportation do not sum to total distribution due to unknown methods of transportation.

Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Table 13. Coke and Breeze Distributed by Coke Plants
(Thousand Short Tons)

Distribution	October - December 1992			July - September 1992	October - December 1991	Year to Date		
	Used By Producing Companies	Commercial Sales	Total			1992	1991	Percent Change
Coke Total	5,354	2,302	7,655	7,526	7,183	29,971	27,513	8.9
By Consumer Category								
Blast Furnaces	5,324	1,844	7,168	7,045	6,751	28,075	25,669	9.4
Foundries	18	294	312	323	278	1,290	1,213	6.4
Other Industrial Plants	11	164	175	157	154	606	630	-3.9
By Plant Type								
Merchant Coke Plants	5	803	807	818	789	3,253	3,246	.2
Furnace Coke Plants	5,349	1,499	6,848	6,708	6,393	26,718	24,267	10.1
Breeze Total	175	366	540	597	599	2,255	2,057	9.6

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly."

Exports and Imports

At Norfolk, Virginia, the Nation's largest coal-exporting district, railroad cars filled with coal for overseas markets wait to be unloaded into colliers.

Table 14. U.S. Coal Exports and Imports, 1984-1992
(Thousand Short Tons)

Year	January - March		April - June		July - September		October - December		Year to Date	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
1984	15,125	276	23,737	269	25,263	435	17,357	306	81,483	1,286
1985	18,544	330	24,208	500	25,831	623	24,097	500	92,680	1,952
1986	17,245	485	24,170	576	23,687	537	20,416	614	85,518	2,212
1987	16,576	331	20,113	483	21,033	475	21,885	459	79,607	1,747
1988	16,061	542	24,900	587	27,691	437	26,371	567	95,023	2,134
1989	21,429	531	28,445	687	23,991	925	26,949	708	100,815	2,851
1990	22,383	735	27,733	674	29,497	514	26,191	776	105,804	2,699
1991	22,318	938	26,214	730	31,197	984	29,239	738	108,969	3,390
1992	24,731	679	27,010	1,043	26,481	882	24,294	1,199	102,516	3,803

Notes: Total may not equal sum of components because of independent rounding. More detailed data included in Table A3.

Sources: Exports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545"; and Imports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Table 15. Average Price of U.S. Coal Exports and Imports, 1984-1992
(Dollars per Short Ton)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
1984	\$51.21	\$32.74	\$51.03	\$33.90	\$50.67	\$35.49	\$49.91	\$38.83	\$50.72	\$35.37
1985	49.14	37.74	48.75	35.24	47.80	36.75	47.27	34.82	48.18	36.04
1986	46.52	34.21	46.30	36.14	45.41	35.90	45.69	37.44	45.95	36.02
1987	44.79	35.04	43.20	31.69	42.01	31.94	41.59	30.35	42.77	32.04
1988	42.05	28.94	42.62	33.74	41.84	26.77	42.38	29.47	42.23	29.96
1989	42.27	33.65	42.47	34.19	42.61	34.92	42.69	33.44	42.52	34.14
1990	43.23	35.07	42.51	33.67	42.22	32.05	42.68	36.14	42.63	34.45
1991	44.58	33.71	42.97	34.60	41.51	31.45	41.15	33.16	42.39	33.12
1992	42.28	33.63	41.34	32.96	40.70	34.43	41.07	33.08	41.34	33.46

Notes: Exports: Average price is based on the free alongside ship (f.a.s.) value. Imports: Average price is based on the customs import value. More detailed data included in Table A4. Total may not equal sum of components because of independent rounding.

Sources: Exports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545"; and Imports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Figure 7. Quarterly U.S. Coal Exports and Imports, 1984-1992

Note: Each increment represents end-of-quarter data.
 Sources, Exports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545;"
 Imports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145."

Table 16. U.S. Coal Exports
(Short Tons)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	4,298,168	4,964,125	5,154,178	15,330,988	11,454,337	33.8
Canada ¹	4,245,647	4,928,571	5,063,960	15,139,566	11,177,925	35.4
Dominican Republic	26,515	22,852	58,928	84,420	129,727	-34.9
Jamaica	13,698	-	15,048	26,925	51,551	-47.8
Mexico	10,138	11,971	15,789	76,693	92,175	-16.8
Other ²	2,170	731	453	3,384	2,959	14.4
South America Total	1,560,782	1,677,927	1,889,332	6,769,033	7,660,951	-11.6
Argentina	32,307	106,293	-	335,152	429,422	-22.0
Brazil	1,526,774	1,549,690	1,871,182	6,369,632	7,051,872	-9.7
Chile	-	-	-	27,090	135,037	-79.9
Other ²	1,701	21,944	18,150	37,159	44,620	-16.7
Europe Total	12,383,327	13,749,893	16,118,518	57,255,087	65,519,766	-12.6
Albania	-	-	-	22,284	112,152	-80.1
Belgium & Luxembourg	1,727,298	1,584,819	1,591,993	7,196,111	7,464,022	-3.6
Bulgaria	221,250	212,826	218,309	601,582	946,224	-36.4
Denmark	557,463	1,156,696	1,183,600	3,832,345	4,657,567	-17.7
Finland	-	-	181,203	205,160	530,240	-61.3
France	1,544,468	1,636,448	2,197,924	8,059,788	9,509,010	-15.2
Germany, FR	92,006	341,596	730,319	1,003,440	1,742,313	-42.4
Ireland	352,498	444,785	303,913	1,448,927	1,312,606	10.4
Italy	2,105,772	1,805,395	2,936,247	9,343,722	11,273,797	-17.1
Netherlands	1,986,200	2,320,167	2,508,655	9,147,636	9,625,206	-5.0
Norway	21,668	47,648	33,350	118,429	199,899	-40.8
Portugal	190,483	431,244	605,205	1,479,283	1,629,310	-9.2
Romania	183,184	164,863	222,738	752,592	1,146,840	-34.4
Spain	936,768	1,118,298	1,024,860	4,535,368	4,694,166	-3.4
Sweden	491,129	338,561	437,642	1,165,260	1,239,194	-6.0
Turkey	497,184	675,948	405,638	1,989,568	2,186,245	-9.0
United Kingdom	1,306,881	1,313,623	1,430,853	5,595,351	6,170,689	-9.3
Yugoslavia	169,075	140,622	90,034	726,105	978,723	-25.8
Other ²	-	16,354	16,035	32,136	101,563	-68.4
Asia Total	5,345,696	5,508,455	5,284,371	20,539,627	21,788,412	-5.7
China (Taiwan)	830,390	1,155,764	1,294,555	3,559,932	4,546,651	-21.7
Hong Kong	122,813	118,795	135,359	356,528	600,338	-40.6
Israel	122,100	267,896	109,440	823,994	651,383	26.5
Japan	3,103,948	3,114,259	2,892,198	12,303,668	12,268,683	.3
Korea, Republic of	1,027,598	850,497	852,274	3,351,649	3,710,617	-9.7
Other ²	138,847	1,244	545	143,856	10,740	(³)
Oceania & Australia Total	-	19	-	305	133	129.3
Africa Total	706,171	580,484	793,074	2,621,159	2,544,995	3.0
Algeria	170,886	126,495	61,958	611,458	522,275	17.1
Egypt	194,129	248,285	314,658	848,352	768,892	10.3
Morocco	207,137	136,234	283,645	736,529	1,012,855	-27.3
South Africa, Rep of	134,019	69,470	132,813	424,820	238,960	77.8
Other ²	-	-	-	-	2,013	-
Total	24,294,144	26,480,903	29,239,473	102,516,199	108,968,594	-5.9

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons in 1991.

³ Changes of 500 percent or more are not shown.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table 17. Average Price of U.S. Coal Exports
(Dollars per Short Ton)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	\$32.74	\$33.20	\$32.63	\$33.06	\$33.61	-1.6
Canada ¹	32.71	33.17	32.56	33.00	33.48	-1.5
Dominican Republic	35.06	37.09	36.10	36.28	36.80	-1.4
Jamaica	-	-	33.29	-	33.41	-
Mexico	39.24	39.23	40.97	43.48	43.64	-.4
Other ²	40.29	39.32	34.68	39.26	34.48	13.9
South America Total	45.21	45.24	45.91	45.54	46.24	-1.5
Argentina	45.26	46.19	-	45.44	45.59	-.3
Brazil	45.21	45.19	45.91	45.57	46.44	-1.9
Chile	-	-	-	47.38	39.48	20.0
Other ²	38.85	39.78	49.30	36.94	35.25	4.8
Europe Total	43.07	42.45	42.61	42.67	43.08	-1.0
Albania	-	-	-	-	46.27	-
Belgium & Luxembourg	42.97	44.99	44.28	44.01	44.82	-1.8
Bulgaria	42.90	43.01	42.30	43.29	42.57	1.7
Denmark	31.17	32.08	32.01	32.69	32.95	-.8
Finland	-	-	43.71	40.81	44.77	-8.8
France	41.17	40.28	39.62	39.38	40.18	-2.0
Germany, FR	38.11	39.23	38.69	38.27	39.33	-2.7
Ireland	37.95	36.97	39.18	36.81	39.53	-6.9
Italy	44.45	45.39	45.57	45.34	45.38	-.1
Netherlands	43.28	42.45	43.73	43.34	43.18	.4
Norway	-	49.20	-	47.95	32.11	49.3
Portugal	40.83	41.00	40.82	40.74	40.87	-.3
Romania	38.31	37.56	45.10	41.62	45.89	-9.3
Spain	47.53	48.06	44.93	46.82	45.23	3.5
Sweden	46.22	47.09	47.27	46.66	47.72	-2.2
Turkey	45.22	45.07	46.68	45.54	46.84	-2.8
United Kingdom	45.80	44.75	45.18	45.54	46.35	-1.8
Yugoslavia	46.81	46.36	40.58	45.04	46.61	-3.4
Other ²	-	37.07	-	37.05	43.50	-14.8
Asia Total	41.93	42.07	42.66	42.65	43.24	-1.4
China (Taiwan)	40.07	41.59	42.07	41.23	41.73	-1.2
Hong Kong	37.56	37.55	38.03	37.55	38.58	-2.7
Israel	37.84	38.93	41.02	39.11	39.87	-1.9
Japan	41.96	42.00	42.58	42.91	43.39	-1.1
Korea, Republic of	45.19	44.63	44.77	44.93	45.95	-2.2
Other ²	35.73	34.45	39.21	35.84	40.44	-11.4
Oceania & Australia Total	-	-	-	34.50	-	-
Africa Total	42.73	43.65	42.02	42.97	41.26	4.1
Algeria	46.54	45.95	45.55	46.35	46.50	-.3
Egypt	45.97	46.79	45.51	46.08	45.69	.9
Morocco	33.98	33.40	34.15	33.80	33.73	.2
South Africa, Rep of	46.72	48.33	48.93	47.79	48.92	-2.3
Other ²	-	-	-	-	40.81	-
Total³	41.14	40.84	41.14	41.44	42.35	-2.2
U.S. Total⁴	41.07	40.70	41.15	41.34	42.39	-2.5

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons in 1991.

³ The average prices presented in this table, with the exception of U.S. Total, are considered to be representative prices for coal exports and fall within the range of \$28 to \$50 per short ton, inclusively.

⁴ U.S. Total is the average price of all coal exports.

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the free alongside ship (f.a.s.) value.
Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table 18. U.S. Steam Coal Exports
(Short Tons)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	2,919,921	3,182,557	3,686,545	10,374,215	7,394,304	40.3
Canada ¹	2,867,422	3,147,213	3,596,349	10,219,129	7,158,573	42.8
Dominican Republic	26,515	22,852	58,928	84,420	129,727	-34.9
Jamaica	13,698	-	15,048	26,925	51,551	-47.8
Mexico	10,138	11,761	15,789	40,379	51,538	-21.7
Other ²	2,148	731	431	3,362	2,915	15.3
South America Total	66,016	133,848	23,716	244,633	245,126	-2
Argentina	1,753	595	-	2,830	1,012	179.6
Brazil	64,562	111,309	5,566	204,569	94,085	117.4
Chile	-	-	-	75	105,409	-99.9
Other ²	1,701	21,944	18,150	37,159	44,620	-16.7
Europe Total	4,646,705	5,869,547	7,285,569	23,890,571	26,975,477	-11.4
Belgium & Luxembourg	531,823	362,303	504,011	2,030,824	1,932,530	5.1
Denmark	557,463	1,156,696	1,046,994	3,832,345	4,090,054	-6.3
Finland	-	-	72,463	-	141,569	-
France	494,081	640,212	999,825	3,745,438	3,657,720	2.4
Germany, FR	92,006	184,719	544,221	756,258	1,180,970	-36.0
Ireland	352,498	444,785	303,913	1,448,927	1,312,606	10.4
Italy	856,163	464,048	928,946	3,163,749	4,785,235	-33.9
Netherlands	982,953	1,333,185	1,195,200	4,311,795	5,027,032	-14.2
Norway	6,516	7,214	6,861	27,453	98,836	-72.2
Portugal	190,483	385,004	605,205	1,344,268	1,555,009	-13.6
Romania	-	-	73,020	-	143,735	-
Spain	271,180	388,224	367,288	1,740,313	1,291,913	34.7
Sweden	-	-	-	247	8,048	-96.9
Turkey	-	-	119,979	316	120,278	-99.7
United Kingdom	311,539	435,076	517,643	1,420,557	1,513,761	-6.2
Yugoslavia	-	67,852	-	67,852	109,954	-38.3
Other ²	-	229	-	229	6,227	-96.3
Asia Total	2,179,984	2,470,903	2,446,465	7,884,541	8,894,226	-11.4
China (Taiwan)	719,878	1,046,493	1,185,159	3,135,589	4,087,815	-23.3
Hong Kong	122,813	118,795	135,359	356,528	600,338	-40.6
Israel	122,100	267,896	109,440	681,067	542,333	25.6
Japan	917,530	857,259	738,310	2,823,439	2,873,572	-1.7
Korea, Republic of	158,796	179,216	277,652	744,062	779,428	-4.5
Other ²	138,847	1,244	545	143,856	10,740	(³)
Oceania & Australia Total	-	19	-	305	133	129.3
Africa Total	207,873	95,165	243,459	696,196	813,940	-14.5
Egypt	736	-	574	736	1,070	-31.2
Morocco	207,137	95,165	242,885	695,460	810,857	-14.2
Other ²	-	-	-	-	2,013	-
Total	10,022,479	11,752,039	13,685,754	43,090,461	44,323,206	-2.8

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons in 1991.

³ Changes of 500 percent or more are not shown.

Notes: Total may not equal sum of components because of independent rounding. Steam coal includes bituminous, subbituminous, lignite, and anthracite.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table 19. Average Price of U.S. Steam Coal Exports
(Dollars per Short Ton)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	\$31.28	\$31.17	\$30.31	\$31.42	\$30.49	3.0
Canada ¹	31.22	31.10	30.14	31.35	30.28	3.5
Dominican Republic	35.06	37.09	36.10	36.28	36.80	-1.4
Jamaica	-	-	33.29	-	33.41	-
Mexico	39.24	39.23	40.97	38.19	39.16	-2.5
Other ²	40.29	39.32	34.68	39.26	34.48	13.9
South America Total	43.06	43.10	49.30	42.38	39.13	8.3
Argentina	34.48	-	-	38.57	35.95	7.3
Brazil	43.21	43.29	-	42.95	43.64	-1.6
Chile	-	-	-	40.96	36.59	11.9
Other ²	38.85	39.78	49.30	36.94	35.25	4.8
Europe Total	37.54	36.65	37.56	36.99	37.74	-2.0
Belgium & Luxembourg	35.81	36.33	37.19	36.35	37.08	-2.0
Denmark	31.17	32.08	32.46	32.69	33.14	-1.4
Finland	-	-	40.82	-	40.82	-
France	32.41	33.82	33.37	33.64	33.93	-.9
Germany, FR	38.11	33.40	35.55	35.82	34.95	2.5
Ireland	37.95	36.97	39.18	36.81	39.53	-6.9
Italy	41.72	39.81	41.33	41.32	41.71	-.9
Netherlands	39.42	39.39	40.04	39.24	39.59	-.9
Norway	-	-	-	-	32.11	-
Portugal	40.83	40.42	40.82	40.38	40.52	-.4
Romania	-	-	42.64	-	42.64	-
Spain	42.79	39.90	32.93	38.47	34.32	12.1
Sweden	-	-	-	34.53	41.64	-17.1
Turkey	-	-	46.39	40.72	46.38	-12.2
United Kingdom	39.26	39.10	40.19	38.96	39.69	-1.9
Yugoslavia	-	-	-	-	40.97	-
Other ²	-	42.07	-	42.07	40.79	3.1
Asia Total	36.84	36.37	39.35	36.27	39.18	-2.3
China (Taiwan)	39.25	41.15	41.64	40.63	41.16	-1.3
Hong Kong	37.56	37.55	38.03	37.55	38.58	-2.7
Israel	37.84	38.93	41.02	38.89	39.41	-1.3
Japan	35.27	35.67	35.46	35.98	36.05	-.2
Korea, Republic of	34.69	34.84	39.92	37.24	39.97	-6.8
Other ²	35.73	34.45	39.21	35.84	40.44	-11.4
Oceania & Australia Total	-	-	-	34.50	-	-
Africa Total	34.00	33.05	34.04	33.78	33.56	.7
Egypt	39.92	-	40.82	39.92	40.81	-2.2
Morocco	33.98	33.05	34.02	33.77	33.53	.7
Other ²	-	-	-	-	40.81	-
Total³	35.53	35.57	35.99	35.86	36.86	-2.7
U.S. Total⁴	35.55	35.46	36.10	35.73	36.91	-3.2

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons in 1991.

³ The average prices presented in this table, with the exception of U.S. Total, are considered to be representative prices for coal exports and fall within the range of \$28 to \$50 per short ton, inclusively.

⁴ U.S. Total is the average price of all coal exports.

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the free alongside ship (f.a.s.) value. Steam coal includes bituminous, subbituminous, lignite, and anthracite.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table 20. U.S. Metallurgical Coal Exports
(Short Tons)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	1,378,247	1,781,568	1,467,633	4,956,773	4,060,033	22.1
Canada ¹	1,378,225	1,781,358	1,467,611	4,920,437	4,019,352	22.4
Mexico	-	210	-	36,314	40,637	-10.6
Other ²	22	-	22	22	44	-50.0
South America Total	1,492,766	1,544,079	1,865,616	6,524,400	7,415,825	-12.0
Argentina	30,554	105,698	-	332,322	428,410	-22.4
Brazil	1,482,212	1,438,381	1,865,616	6,165,063	6,957,787	-11.4
Chile	-	-	-	27,015	29,628	-8.8
Europe Total	7,736,622	7,880,346	8,832,949	33,364,516	38,544,289	-13.4
Albania	-	-	-	22,284	112,152	-80.1
Belgium & Luxembourg	1,195,475	1,222,516	1,087,982	5,165,287	5,531,492	-6.6
Bulgaria	221,250	212,826	218,309	601,582	946,224	-36.4
Denmark	-	-	136,806	-	567,513	-
Finland	-	-	108,740	205,160	388,671	-47.2
France	1,050,387	996,236	1,198,099	4,314,350	5,851,290	-26.3
Germany, FR	-	156,877	186,098	247,182	561,343	-56.0
Italy	1,249,609	1,341,347	2,007,301	6,179,973	6,488,562	-4.8
Netherlands	1,003,247	986,982	1,313,455	4,835,841	4,598,174	5.2
Norway	15,152	40,434	26,489	90,976	101,063	-10.0
Portugal	-	46,240	-	135,015	74,301	81.7
Romania	183,184	164,863	149,718	752,592	1,003,105	-25.0
Spain	665,588	730,074	657,572	2,795,055	3,402,253	-17.8
Sweden	491,129	338,561	437,642	1,165,013	1,231,146	-5.4
Turkey	497,184	675,948	285,659	1,989,252	2,065,967	-3.7
United Kingdom	995,342	878,547	913,210	4,174,794	4,656,928	-10.4
Yugoslavia	169,075	72,770	90,034	658,253	868,769	-24.2
Other ²	-	16,125	16,035	31,907	95,336	-66.5
Asia Total	3,165,732	3,037,552	2,837,906	12,655,086	12,894,186	-1.9
China (Taiwan)	110,512	109,271	109,396	424,343	458,836	-7.5
Israel	-	-	-	142,927	109,050	31.1
Japan	2,186,418	2,257,000	2,153,888	9,480,229	9,395,111	.9
Korea, Republic of	868,802	671,281	574,622	2,607,587	2,931,189	-11.0
Africa Total	498,298	485,319	549,615	1,924,963	1,731,055	11.2
Algeria	170,886	126,495	61,958	611,458	522,275	17.1
Egypt	193,393	248,285	314,084	847,616	787,822	10.4
Morocco	-	41,069	40,760	41,069	201,998	-79.7
South Africa, Rep of	134,019	69,470	132,813	424,820	238,960	77.8
Total	14,271,665	14,728,864	15,553,719	59,425,738	64,645,388	-8.1

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons in 1991.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table 21. Average Price of U.S. Metallurgical Coal Exports
(Dollars per Short Ton)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	\$35.69	\$36.78	\$37.92	\$36.43	\$36.64	-5.5
Canada ¹	35.69	36.78	37.92	36.34	36.43	-5.4
Mexico	-	-	-	47.92	49.20	-2.6
South America Total	45.29	45.40	45.91	45.65	46.44	-1.7
Argentina	45.31	46.19	-	45.45	45.62	-4
Brazil	45.29	45.34	45.91	45.65	46.48	-1.8
Chile	-	-	-	47.40	49.78	-4.8
Europe Total	46.23	46.54	46.72	46.57	46.91	-7
Albania	-	-	-	-	46.27	-
Belgium & Luxembourg	46.15	47.56	47.57	47.02	47.52	-1.1
Bulgaria	42.90	43.01	42.30	43.29	42.57	1.7
Denmark	-	-	28.58	-	29.37	-
Finland	-	-	45.63	40.81	46.21	-11.7
France	45.29	44.44	44.83	44.39	43.96	1.0
Germany, FR	-	46.09	47.86	45.79	48.55	-5.7
Italy	46.32	47.43	47.53	47.44	48.28	-1.7
Netherlands	47.06	46.58	47.08	47.00	47.11	-2
Norway	-	49.20	-	47.95	-	-
Portugal	-	45.88	-	44.33	48.11	-7.8
Romania	38.31	37.56	46.30	41.62	46.47	-10.4
Spain	47.85	48.28	48.96	48.48	48.45	.1
Sweden	46.22	47.09	47.27	46.67	47.78	-2.3
Turkey	45.22	45.07	46.80	45.54	46.87	-2.8
United Kingdom	47.85	47.55	47.88	47.72	48.46	-1.5
Yugoslavia	46.81	46.36	40.58	45.04	46.61	-3.4
Other ²	-	37.00	-	37.00	43.55	-15.0
Asia Total	45.43	45.06	45.51	45.39	46.00	-1.3
China (Taiwan)	45.41	45.86	46.70	45.63	46.80	-2.5
Israel	-	-	-	40.13	42.18	-4.9
Japan	44.76	44.40	45.02	44.96	45.52	-1.2
Korea, Republic of	47.11	47.24	47.11	47.13	47.54	-9
Africa Total	46.37	45.73	45.56	46.29	45.03	2.8
Algeria	46.54	45.95	45.55	46.35	46.50	-.3
Egypt	45.99	46.79	45.51	46.09	45.70	.9
Morocco	-	34.22	34.95	34.22	34.54	-.9
South Africa, Rep of	46.72	46.33	46.93	47.79	48.92	-2.3
Total³	44.94	44.91	45.52	45.36	46.07	-1.5
U.S. Total⁴	44.95	44.88	45.59	45.41	46.15	-1.6

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons in 1991.

³ The average prices presented in this table, with the exception of U.S. Total, are considered to be representative prices for coal exports and fall within the range of \$28 to \$50 per short ton, inclusively.

⁴ U.S. Total is the average price of all coal exports.

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the free alongside ship (f.a.s.) value.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table 22. Coal Exports by Customs District
(Short Tons)

Customs District	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
Eastern Total	14,703,886	16,020,183	17,105,640	64,826,464	69,184,891	-6.3
Baltimore, MD	2,029,537	2,599,288	2,714,813	9,449,960	9,789,651	-3.5
Portland, ME	-	-	-	105	-	-
Buffalo, NY	494,088	749,530	283,274	1,970,897	772,588	155.1
New York City, NY	423	705	1,503	4,013	5,021	-20.1
Ogdensburg, NY	45,242	11,197	70,301	65,577	110,145	-40.5
Philadelphia, PA	101,078	43,923	155,086	252,336	639,098	-60.5
Norfolk, VA	12,033,518	12,615,540	13,880,663	53,083,353	57,867,995	-8.3
St. Albans, VT	-	-	-	223	393	-43.3
Southern Total	4,686,584	5,586,147	6,506,628	21,343,271	25,666,709	-16.8
Mobile, AL	1,705,285	1,584,435	2,065,701	6,853,464	8,743,225	-21.6
Savannah, GA	853	902	-	36,710	147	(¹)
Miami, FL	271	622	197	1,571	2,098	-25.1
Tampa, FL	-	-	-	-	11,191	-
New Orleans, LA	2,756,458	3,723,236	3,934,170	13,479,756	15,494,166	-13.0
San Juan, PR	-	-	-	-	168	-
Charleston, SC	171,339	228,957	414,569	790,867	1,160,590	-31.9
El Paso, TX	90	-	-	511	69	(¹)
Houston-Galveston, TX	44,495	36,508	76,533	144,589	205,980	-29.8
Laredo, TX	7,783	11,378	15,458	35,684	49,075	-27.3
Virgin Islands	-	109	-	109	-	-
Western Total	1,293,819	881,907	1,562,044	3,650,815	4,430,395	-17.6
Anchorage, AK	158,796	174,852	275,473	727,673	776,955	-6.3
Nogales, AZ	198	-	-	198	-	-
Los Angeles, CA	1,116,410	622,074	756,759	2,721,499	2,840,296	-4.2
San Diego, CA	2,057	593	331	4,348	2,080	109.0
San Francisco, CA	-	60,102	-	60,102	33,087	81.6
Portland, OR	-	-	501,771	-	576,244	-
Seattle, WA	16,358	24,286	27,710	136,995	201,733	-32.1
Northern Total	3,603,650	3,987,268	4,060,174	12,557,446	9,635,192	30.3
Chicago, IL	-	-	-	183	108	69.4
Detroit, MI	635,061	881,613	323,298	2,180,688	520,158	319.2
Duluth, MN	-	-	64,945	118,782	130,113	-8.7
Pembina, ND	129	-	-	129	63	55.4
Cleveland, OH	2,968,460	3,105,655	3,671,931	10,257,664	8,984,730	14.2
Other Ports	6,205	5,398	4,987	138,203	51,407	166.8
Total	24,294,144	26,480,903	29,239,473	102,516,199	108,968,594	-5.9

¹ Changes of 500 percent or more are not shown.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table 23. U.S. Coke Exports
(Short Tons)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	116,281	127,869	126,162	387,873	338,595	14.6
Canada ¹	100,154	113,045	91,942	310,025	239,475	29.5
Mexico	15,781	14,333	33,983	75,876	98,013	-22.6
Other ²	366	491	257	1,972	1,107	78.1
South America Total	7,331	33,985	10,387	108,021	131,940	-18.1
Europe Total	592	47,035	46,571	98,052	204,167	-52.0
Asia Total	49	36,043	-	48,235	65,539	-26.4
Total	124,253	244,932	183,140	642,181	740,241	-13.2

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons in 1991.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table 24. U.S. Coal Imports
(Short Tons)

Continent and Country of Origin	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	292,956	215,484	241,628	1,020,852	935,477	9.1
Canada	292,956	215,484	241,628	1,020,852	935,477	9.1
South America Total	751,688	529,801	489,219	2,301,933	2,416,309	-4.7
Colombia	505,173	477,833	353,074	1,763,150	1,881,439	-6.3
Venezuela	246,515	51,968	136,145	538,783	534,870	.7
Europe Total	-	89	-	89	6	(¹)
Czechoslovakia	-	-	-	-	6	-
United Kingdom	-	89	-	89	-	-
Asia Total	119,573	113,433	6,843	373,145	6,894	(¹)
China (Mainland)	-	284	202	284	202	40.6
Hong Kong	-	-	-	1	-	-
India	66,154	-	-	66,154	-	-
Indonesia	-	113,149	6,841	253,287	6,841	(¹)
Japan	-	-	-	-	1	-
Malaysia	53,419	-	-	53,419	-	-
Thailand	-	-	-	-	50	-
Oceania & Australia Total	28,624	23,166	-	100,986	31,106	224.7
Australia	28,624	23,166	-	100,986	31,106	224.7
Africa Total	5,762	-	-	5,762	-	-
South Africa, Rep of	5,762	-	-	5,762	-	-
Total	1,198,603	881,973	737,690	3,802,767	3,389,792	12.2

¹ Changes of 500 percent or more are not shown.

Notes: Total may not equal sum of components because of independent rounding. Coal imports include coal to Puerto Rico and the Virgin Islands.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Table 25. Average Price of U.S. Coal Imports
(Dollars per Short Ton)

Continent and Country of Origin	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	\$34.31	\$25.90	\$24.08	\$27.88	\$25.10	11.0
Canada	34.31	25.90	24.08	27.88	25.10	11.0
South America Total	30.66	32.99	35.78	33.04	34.64	-4.6
Colombia	30.52	32.60	32.95	32.25	32.87	-1.9
Venezuela	30.96	36.53	43.13	35.61	40.87	-12.9
Europe Total	-	34.12	-	34.12	-	-
United Kingdom	-	34.12	-	34.12	-	-
Asia Total	34.11	45.42	-	38.75	-	-
India	23.65	-	-	23.65	-	-
Indonesia	-	45.42	-	40.94	-	-
Malaysia	47.06	-	-	47.06	-	-
Oceania & Australia Total	33.67	33.67	-	36.07	37.97	-5.0
Australia	33.67	33.67	-	36.07	37.97	-5.0
Africa Total	49.29	-	-	49.29	-	-
South Africa, Rep of	49.29	-	-	49.29	-	-
Total¹	31.95	33.24	32.04	32.48	32.34	.4
U.S. Total²	33.08	34.43	33.16	33.46	33.12	1.0

¹ The average prices presented in this table, with the exception of U.S. Total, are considered to be representative prices for coal imports and fall within the range of \$20 to \$50 per short ton, inclusively.

² U.S. Total is the average price of all coal imports.

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the customs import value. Coal imports include coal to Puerto Rico and the Virgin Islands.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Table 27. U.S. Coke Imports
(Short Tons)

Continent and Country of Origin	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	13,695	4,265	30,641	53,613	51,762	3.6
Canada	13,695	4,265	30,641	53,613	51,762	3.6
Europe Total	26,267	-	21,019	26,267	21,019	25.0
United Kingdom	26,267	-	21,019	26,267	21,019	25.0
Asia Total	379,534	328,352	170,007	1,518,982	836,767	81.5
Japan	379,534	328,352	170,007	1,518,982	836,767	81.5
Oceania & Australia Total	48,477	-	-	140,485	189,298	-25.8
Australia	48,477	-	-	140,485	189,298	-25.8
Total	467,973	332,617	221,667	1,739,347	1,098,848	58.3

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Table 26. Coal Imports by Customs District
(Short Tons)

Customs District	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
Eastern Total	119,796	24,251	93,955	340,317	361,097	-5.8
Boston, MA	59,537	-	35,455	128,667	84,310	52.6
Portland, ME	26,249	24,251	58,500	108,863	207,152	-47.4
Buffalo, NY	-	-	-	-	134	-
Philadelphia, PA	34,010	-	-	102,787	69,501	47.9
Southern Total	723,929	505,550	401,905	2,053,672	2,061,987	-.4
Tampa, FL	407,258	403,133	256,890	1,419,581	1,680,398	-15.5
New Orleans, LA	154,600	-	8,641	154,600	23,731	(¹)
San Juan, PR	59,856	32,216	84,975	169,707	211,313	-19.7
Houston-Galveston, TX	40,982	42,484	-	83,466	11,023	(¹)
Virgin Islands	61,233	27,717	53,399	226,318	135,522	67.0
Western Total	93,893	154,315	18,970	461,675	116,420	296.6
Los Angeles, CA	-	-	-	-	877	-
San Francisco, CA	-	284	-	284	-	-
Honolulu, HI	82,043	136,315	-	407,692	31,106	(¹)
Great Falls, MT	10,793	6,375	7,568	36,237	57,918	-37.4
Seattle, WA	1,057	11,341	11,402	17,462	26,521	-34.2
Northern Total	260,965	197,857	222,860	947,103	850,288	11.4
Chicago, IL	91,013	29,412	58,958	230,677	208,021	10.9
Detroit, MI	58,937	-	267	58,937	275	(¹)
Duluth, MN	-	-	-	-	211	-
Pembina, ND	111,035	168,356	163,635	657,400	641,781	2.4
Cleveland, OH	-	89	-	89	-	-
Total	1,198,603	881,973	737,690	3,802,767	3,389,792	12.2

¹ Changes of 500 percent or more are not shown.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Receipts

Figure 8. Quarterly U.S. Coal Receipts, 1984-1992

Note: Each increment represents end-of-quarter data.
 Sources: Energy Information Administration (EIA), Electric Utilities: Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly;" Other Industrial and Residential and Commercial: Form EIA-6, "Coal Distribution Report."

Table 28. U.S. Coal Receipts by End-Use Sector, 1984-1992
(Thousand Short Tons)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial	Residential and Commercial	Total
1984 January - March	168,105	13,102	18,353	2,612	202,172
April - June	169,582	14,990	20,313	1,931	206,816
July - September	184,662	12,112	20,880	2,223	219,876
October - December	161,763	5,847	16,391	2,363	186,364
Total	684,111	46,051	75,936	9,130	815,228
1985 January - March	159,346	8,569	16,209	2,074	186,198
April - June	169,560	11,069	18,091	1,589	200,310
July - September	171,182	8,927	18,837	1,673	200,619
October - December	166,655	9,738	20,937	2,443	199,773
Total	666,743	38,303	74,075	7,779	786,900
1986 January - March	168,499	10,097	18,884	2,231	199,711
April - June	166,139	10,624	18,989	1,675	197,427
July - September	175,087	6,937	17,676	1,503	201,202
October - December	177,239	8,179	19,640	2,259	207,318
Total	686,964	35,837	75,190	7,667	805,659
1987 January - March	167,444	7,317	17,487	1,809	194,057
April - June	172,691	10,386	17,680	1,254	202,011
July - September	188,743	9,466	19,108	1,613	218,930
October - December	192,421	10,575	20,931	2,238	226,165
Total	721,298	37,744	75,207	6,914	841,163
1988 January - March	174,518	10,462	18,203	2,004	205,187
April - June	173,393	10,299	17,468	1,406	202,565
July - September	190,788	9,627	18,186	1,725	220,327
October - December	189,077	10,727	18,799	1,994	220,598
Total	727,775	41,115	72,656	7,130	848,676
1989 January - March	182,295	10,984	17,794	1,837	212,910
April - June	188,144	10,293	18,169	1,143	217,748
July - September	190,115	10,469	18,761	1,264	220,609
October - December	192,663	9,274	19,939	1,924	223,800
Total	753,217	41,019	74,663	6,167	875,067
1990 January - March	197,469	11,091	19,194	1,920	229,674
April - June	192,496	10,286	18,435	1,265	222,482
July - September	199,714	9,234	19,355	1,443	229,745
October - December	196,949	10,125	20,472	2,096	229,642
Total	786,627	40,736	77,455	6,724	911,543
1991 January - March	188,963	8,066	16,847	2,008	215,885
April - June	186,026	8,073	15,800	1,055	210,953
July - September	200,172	8,195	18,385	1,132	227,884
October - December	194,762	8,757	20,377	1,899	225,795
Total	769,923	33,090	71,410	6,094	880,517
1992 January - March	189,890	8,410	17,816	1,843	217,959
April - June	187,726	7,915	17,804	1,149	214,593
July - September	201,127	7,592	18,435	1,236	228,390
October - December	196,650	8,110	19,552	1,925	226,238
Total	775,393	32,027	73,607	6,153	887,180

Notes: Total may not equal sum of components because of independent rounding.

Sources: Energy Information Administration • Electric Utilities: FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants" • Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly" • Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants" and Form EIA-6, "Coal Distribution Report" and • Residential and Commercial: Form EIA-6, "Coal Distribution Report."

Figure 9. Quarterly Average Price of U.S. Coal Receipts, 1984-1992

Note: Each increment represents end-of-quarter data.
 Sources: Energy Information Administration (EIA), Electric Utilities: Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly;" Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

Table 29. Average Price of U.S. Coal Receipts by End-Use Sector, 1984-1992
(Dollars per Short Ton)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial ¹
1984 January - March	\$34.35	\$56.83	\$39.41
April - June	35.83	56.38	39.41
July - September	35.54	55.69	39.80
October - December	34.71	58.34	38.39
Average Annual Price	35.12	56.57	39.29
1985 January - March	34.63	55.15	38.36
April - June	35.04	54.48	37.74
July - September	34.32	53.69	36.29
October - December	34.15	53.91	36.67
Average Annual Price	34.53	54.30	37.21
1986 January - March	33.87	52.05	36.80
April - June	34.43	51.01	35.76
July - September	32.79	51.34	35.17
October - December	32.19	48.65	35.60
Average Annual Price	33.30	50.83	35.84
1987 January - March	32.08	46.60	33.92
April - June	32.74	46.24	33.94
July - September	31.47	46.51	33.23
October - December	31.15	46.85	33.75
Average Annual Price	31.83	46.55	33.71
1988 January - March	31.08	47.02	33.91
April - June	31.09	48.04	32.73
July - September	30.28	48.13	33.44
October - December	30.20	47.66	33.59
Average Annual Price	30.84	47.70	33.43
1989 January - March	30.11	47.36	33.19
April - June	30.30	47.23	32.68
July - September	30.00	48.10	32.61
October - December	30.17	47.28	33.61
Average Annual Price	30.15	47.50	33.03
1990 January - March	30.61	47.40	33.33
April - June	30.89	47.65	33.73
July - September	30.16	47.76	33.00
October - December	30.16	48.15	34.30
Average Annual Price	30.45	47.73	33.59
1991 January - March	30.23	48.12	34.24
April - June	30.77	49.44	33.76
July - September	29.61	48.96	32.89
October - December	29.53	49.00	33.26
Average Annual Price	30.02	48.88	33.54
1992 January - March	29.56	47.88	33.62
April - June	29.82	48.22	31.91
July - September	29.02	48.06	32.42
October - December	29.24	47.51	33.19
Average Annual Price	29.40	47.92	32.82

¹ Manufacturing plants only.

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the cost including insurance and freight (c.i.f. cost). Price data for the Residential and Commercial sector are not available. See Technical Note 2 in Appendix C.

Sources: Energy Information Administration (EIA) • Electric Utilities: Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants" • Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly" and • Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

Table 30. Coal Receipts by Census Division and State
(Thousand Short Tons)

Census Division and State	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
New England Total	1,821	1,757	2,013	7,366	6,945	6.0
Connecticut	189	165	265	824	888	-7.1
Maine	206	193	173	866	299	189.6
Massachusetts	1,116	1,061	1,219	4,408	4,386	.5
New Hampshire	303	331	352	1,243	1,357	-8.4
Rhode Island	2	1	2	5	4	17.3
Vermont	4	6	2	20	12	63.6
Middle Atlantic Total	18,678	17,869	17,648	72,639	69,912	3.9
New Jersey	702	399	455	2,452	2,258	8.6
New York	3,602	3,390	3,237	13,561	12,615	7.5
Pennsylvania	14,374	14,080	13,956	56,626	55,039	2.9
East North Central Total	48,974	51,438	52,839	200,492	204,086	-1.8
Illinois	7,718	7,788	7,998	31,651	33,489	-5.5
Indiana	13,842	14,601	16,486	59,369	58,962	.7
Michigan	8,070	9,509	8,445	31,151	32,421	-3.9
Ohio	14,667	14,345	14,666	58,915	58,348	1.0
Wisconsin	4,676	5,195	5,244	19,406	20,866	-7.0
West North Central Total	29,150	28,949	29,603	114,485	116,577	-1.8
Iowa	3,750	4,998	4,603	17,584	18,516	-5.0
Kansas	3,222	3,185	3,607	13,794	14,534	-5.1
Minnesota	4,687	4,111	4,463	16,231	16,943	-4.2
Missouri	6,526	6,521	6,553	25,884	26,628	-2.8
Nebraska	2,024	2,157	2,390	8,135	9,190	-11.5
North Dakota	8,223	7,458	7,293	30,470	28,167	8.2
South Dakota	717	518	695	2,387	2,599	-8.1
South Atlantic Total	38,130	36,221	36,797	143,360	143,925	-.4
Delaware	455	463	620	1,699	2,213	-23.3
District of Columbia	13	6	17	50	66	-23.8
Florida	6,390	6,626	6,270	25,729	25,322	1.6
Georgia	7,352	6,363	5,857	24,648	26,720	-7.8
Maryland	2,540	2,532	2,425	10,002	10,615	-5.8
North Carolina	6,875	6,630	5,948	23,717	20,919	13.4
South Carolina	3,074	3,035	3,023	11,437	11,391	.4
Virginia	3,363	3,221	4,048	13,743	13,910	-1.2
West Virginia	8,070	7,345	8,589	32,335	32,769	-1.3
East South Central Total	25,075	23,953	23,152	94,520	89,832	5.2
Alabama	8,238	8,267	7,868	31,433	29,895	5.1
Kentucky	10,116	8,749	8,769	35,377	33,604	5.3
Mississippi	719	985	994	3,453	3,904	-11.6
Tennessee	6,002	5,952	5,520	24,257	22,429	8.1
West South Central Total	33,245	36,768	32,667	133,869	132,728	.9
Arkansas	3,230	2,866	3,129	11,931	12,693	-6.0
Louisiana	3,103	3,852	3,592	13,259	12,791	3.7
Oklahoma	4,946	4,895	4,130	17,580	16,542	6.3
Texas	21,965	25,155	21,816	91,100	90,703	.4
Mountain Total	28,009	28,356	28,448	108,929	106,258	2.5
Arizona	4,270	4,541	4,884	16,945	17,723	-4.4
Colorado	3,832	4,349	4,149	16,399	16,287	.7
Idaho	149	145	156	556	566	-1.7
Montana	3,085	3,014	3,176	11,143	10,708	4.1
Nevada	1,909	2,157	1,971	8,069	8,281	-2.6
New Mexico	4,200	3,954	3,950	14,987	12,940	15.8
Utah	3,837	3,611	3,578	14,676	15,258	-3.8
Wyoming	6,727	6,585	6,584	26,154	24,496	6.8
Pacific Total	3,156	3,079	2,629	11,520	10,338	11.4
Alaska	157	96	154	514	504	2.1
California	681	694	650	2,792	2,833	-1.4
Hawaii	12	12	-	66	30	117.6
Oregon	648	517	424	2,073	1,813	14.3
Washington	1,657	1,761	1,401	6,076	5,158	17.8
U.S. Total	226,238	228,390	225,795	887,180	880,602	.7

Notes: Total may not equal sum of components because of independent rounding. See Technical Note 1 in Appendix C for differences between distribution and receipts.

Sources: Energy Information Administration, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"; Form EIA-3, "Quarterly Coal Consumption-Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; and Form EIA-6, "Coal Distribution Report."

Table 31. Quantity and Price of Coal Receipts at Electric Utility Plants by Census Division and State

Census Division and State	October-December 1992		October-December 1991		Year to Date					
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	1992		1991		Percent Change	
					Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	1,552	168	1,712	178	6,169	172	6,433	179	-4.1	-3.8
Connecticut	176	169	254	221	793	195	871	217	-9.0	-10.1
Massachusetts	1,079	167	1,166	171	4,194	169	4,278	172	-2.0	-2.2
New Hampshire	297	168	293	170	1,183	168	1,284	174	-7.9	-3.4
Mid Atlantic	13,358	146	12,359	155	53,641	150	52,066	157	3.0	-4.4
New Jersey	655	173	411	175	2,205	173	2,027	178	8.8	-2.8
New York	2,715	145	2,345	156	10,393	149	9,235	159	12.5	-6.6
Pennsylvania	9,988	145	9,604	154	41,043	148	40,804	155	.6	-4.1
East North Central	40,995	146	43,602	144	169,341	146	170,575	149	-.7	-1.8
Illinois	5,974	182	6,200	166	25,449	175	26,813	171	-5.1	1.8
Indiana	11,168	131	13,038	129	47,838	131	46,292	134	3.3	-2.3
Michigan	7,044	152	7,368	150	27,845	156	28,866	159	-3.5	-2.2
Ohio	12,580	143	12,252	147	50,601	144	49,517	148	2.2	-2.5
Wisconsin	4,230	128	4,744	134	17,608	133	19,087	136	-7.7	-1.9
West North Central	25,559	107	26,338	106	101,694	110	105,054	112	-3.2	-1.8
Iowa	3,153	102	4,034	102	15,037	111	16,344	110	-8.0	.4
Kansas	3,155	117	3,561	121	13,634	118	14,401	123	-5.3	-3.8
Minnesota	4,302	108	4,131	113	15,154	120	16,187	126	-6.4	-5.0
Missouri	6,133	136	6,165	130	24,502	134	25,204	134	-2.8	-.5
Nebraska	1,892	71	2,246	69	7,810	75	8,908	75	-12.3	.3
North Dakota	6,279	72	5,585	71	23,427	72	21,683	71	8.0	1.7
South Dakota	645	108	614	112	2,130	113	2,326	113	-8.4	*
South Atlantic	33,550	164	31,723	168	125,199	166	124,355	170	.7	-2.4
Delaware	411	174	568	178	1,532	173	2,002	178	-23.5	-2.7
Florida	5,983	178	6,041	182	24,377	182	24,461	186	-.3	-2.0
Georgia	6,925	173	5,352	187	22,851	180	24,694	180	-7.5	.1
Maryland	2,351	158	2,069	164	9,284	159	8,668	163	7.1	-2.4
North Carolina	6,130	168	5,183	173	20,660	173	18,167	178	13.7	-3.0
South Carolina	2,431	156	2,449	153	9,255	153	9,215	163	.4	-6.1
Virginia	2,289	149	2,456	149	8,915	147	8,599	152	3.7	-3.2
West Virginia	7,031	148	7,605	152	28,325	147	28,549	152	-.8	-2.9
East South Central	21,333	137	19,656	141	80,750	138	77,397	142	4.3	-2.7
Alabama	6,568	168	6,293	177	24,878	173	24,350	181	2.2	-4.6
Kentucky	9,182	117	7,881	117	32,292	116	30,591	118	5.6	-1.3
Mississippi	649	164	935	161	3,208	160	3,727	167	-13.9	-4.4
Tennessee	4,934	127	4,548	127	20,372	127	18,730	125	8.8	1.7
West South Central	31,850	150	31,032	152	128,218	148	127,713	150	.4	-1.6
Arkansas	3,151	159	3,056	154	11,630	165	12,443	160	-6.5	3.5
Louisiana	2,926	156	3,422	158	12,675	153	12,212	165	3.8	-6.9
Oklahoma	4,708	120	3,927	132	16,840	123	15,868	132	6.1	-6.4
Texas	21,065	155	20,627	156	87,074	149	87,189	150	-.1	-.4
Mountain	26,287	112	26,636	112	102,613	112	99,693	114	2.9	-1.6
Arizona	4,114	144	4,722	138	16,311	137	17,020	141	-4.2	-2.8
Colorado	3,584	108	3,892	110	15,597	109	15,500	109	.6	.5
Montana	2,970	71	3,034	66	10,860	71	10,398	67	4.5	5.4
Nevada	1,875	156	1,932	146	7,894	146	8,084	141	-2.4	4.0
New Mexico	4,181	133	3,934	132	14,929	132	12,888	138	15.8	-3.9
Utah	3,378	112	3,102	117	12,840	121	13,254	119	-3.1	1.3
Wyoming	6,184	79	6,019	81	24,181	79	22,549	83	7.2	-5.0
Pacific	2,166	133	1,705	145	7,768	130	6,636	143	17.0	-9.0
Oregon	575	110	365	108	1,932	110	1,719	108	12.4	1.7
Washington	1,591	143	1,340	156	5,836	137	4,917	155	18.7	-11.5
U.S. Total	196,650	141	194,762	142	775,393	141	769,923	145	.7	-2.3

* For percentage calculations, the absolute value of the number is less than 0.05 percent.

Notes: Total may not equal sum of components because of independent rounding. MM Btu represents million Btu.

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

Table 32. Quantity and Price of Contract Coal Receipts at Electric Utility Plants by Census Division and State

Census Division and State	October-December 1992		October-December 1991		Year to Date					
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	1992		1991		Percent Change	
					Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	1,286	169	1,510	179	5,499	173	5,479	180	0.4	-4.0
Connecticut	176	169	228	226	713	197	792	221	-10.0	-11.0
Massachusetts	856	169	1,004	171	3,725	169	3,570	173	4.4	-1.9
New Hampshire	254	169	278	169	1,061	169	1,117	174	-5.0	-3.0
Mid Atlantic	9,245	155	9,696	162	38,032	159	41,841	163	-9.1	-2.5
New Jersey	532	175	387	176	2,055	174	1,874	178	9.7	-2.6
New York	1,300	154	1,403	163	5,760	157	5,964	163	-3.4	-4.1
Pennsylvania	7,413	153	7,905	161	30,218	158	34,003	162	-11.1	-2.4
East North Central	32,330	154	33,450	152	132,407	154	134,746	157	-1.7	-1.5
Illinois	5,337	190	5,397	172	22,760	181	22,858	179	-.4	.7
Indiana	8,488	136	9,422	135	34,846	137	37,049	138	-5.9	-.9
Michigan	5,676	158	5,932	155	22,953	161	24,473	164	-6.2	-2.1
Ohio	9,720	154	9,430	158	39,311	155	37,081	160	6.0	-3.1
Wisconsin	3,109	133	3,268	138	12,537	139	13,285	142	-5.6	-2.5
West North Central	22,192	110	20,671	110	86,424	113	87,918	114	-1.7	-.8
Iowa	2,166	112	1,916	123	10,948	121	11,082	122	-1.2	-.8
Kansas	2,316	127	2,421	130	9,917	126	11,129	128	-10.9	-.9
Minnesota	4,219	108	4,086	113	14,564	120	15,820	126	-7.9	-4.7
Missouri	5,182	142	4,235	138	20,251	138	19,251	137	5.2	.3
Nebraska	1,580	73	1,841	71	5,681	78	6,939	77	-18.1	.5
North Dakota	6,084	73	5,557	71	22,933	73	21,371	71	7.3	1.9
South Dakota	645	108	614	112	2,130	113	2,326	113	-8.4	*
South Atlantic	24,535	174	24,911	177	97,254	175	99,533	177	-2.3	-1.4
Delaware	411	174	518	180	1,509	173	1,677	180	-10.0	-3.9
Florida	4,479	191	4,710	195	18,834	195	19,469	197	-3.3	-.9
Georgia	4,876	184	4,959	190	19,539	186	19,151	189	2.0	-1.7
Maryland	1,747	162	1,855	167	7,062	163	7,220	167	-2.2	-2.1
North Carolina	3,975	182	3,900	184	15,726	182	15,867	184	-.9	-.8
South Carolina	1,633	161	1,216	160	5,514	159	6,051	172	-8.9	-7.4
Virginia	1,784	152	1,416	155	6,463	150	5,335	158	21.2	-5.3
West Virginia	5,629	160	6,337	161	22,606	160	24,764	158	-8.7	.8
East South Central	16,774	143	16,703	144	69,099	143	66,108	146	4.5	-2.3
Alabama	5,250	179	5,059	187	21,517	180	19,749	192	8.9	-6.4
Kentucky	6,582	121	6,402	120	25,318	119	25,023	120	1.2	-.5
Mississippi	554	169	712	165	2,626	165	3,331	169	-21.2	-2.5
Tennessee	4,387	128	4,530	127	19,639	128	18,004	125	9.1	1.9
West South Central	29,862	153	27,363	155	122,022	149	121,439	151	.5	-1.6
Arkansas	3,151	159	2,615	158	11,156	167	12,002	161	-7.1	3.8
Louisiana	2,926	156	3,422	158	12,675	153	12,212	165	3.8	-6.9
Oklahoma	3,462	130	2,830	144	14,960	127	13,579	136	10.2	-6.7
Texas	20,324	156	18,496	156	83,232	150	83,646	150	-.5	-.4
Mountain	24,833	114	24,987	113	94,279	114	92,619	116	1.8	-1.2
Arizona	3,913	146	4,722	138	14,069	142	16,805	140	-16.3	1.3
Colorado	3,155	109	3,107	112	13,698	111	12,757	112	7.4	-1.1
Montana	2,970	71	3,034	66	10,860	71	10,398	67	4.5	5.4
Nevada	1,875	156	1,932	146	7,894	146	8,084	141	-2.4	4.0
New Mexico	4,181	133	3,934	132	14,929	132	12,888	138	15.8	-3.9
Utah	3,084	116	2,771	118	11,733	124	11,713	121	.2	2.2
Wyoming	5,655	81	5,486	84	21,095	81	19,973	86	5.6	-5.7
Pacific	1,172	150	1,328	155	4,943	140	5,788	147	-14.6	-5.2
Oregon	-	-	-	-	-	-	898	109	-	-
Washington	1,172	150	1,328	155	4,943	140	4,890	155	1.1	-9.7
U.S. Total	162,230	146	160,619	147	649,959	146	655,471	149	-.8	-1.8

* For percentage calculations, the absolute value of the number is less than 0.05 percent.

Notes: Total may not equal sum of components because of independent rounding. MM Btu represents million Btu.

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

Table 33. Quantity and Price of Spot Coal Receipts at Electric Utility Plants by Census Division and State

Census Division and State	October-December 1992		October-December 1991		Year to Date					
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	1992		1991		Percent Change	
					Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	266	161	202	172	670	166	954	173	-29.8	-4.0
Connecticut	-	-	26	175	80	178	79	173	1.3	3.1
Massachusetts	223	160	161	171	468	165	708	172	-33.8	-4.4
New Hampshire	43	166	15	183	122	164	167	177	-27.3	-7.0
Mid Atlantic	4,113	128	2,663	130	15,609	127	10,225	131	52.7	-2.4
New Jersey	123	162	24	163	150	162	153	174	-1.6	-7.2
New York	1,415	137	941	146	4,634	139	3,271	152	41.7	-8.7
Pennsylvania	2,575	121	1,698	120	10,825	122	6,801	119	59.2	2.6
East North Central	8,665	114	10,152	118	36,934	117	35,829	119	3.1	-2.0
Illinois	637	126	803	126	2,688	125	3,955	126	-32.0	-1.0
Indiana	2,680	115	3,616	115	12,992	117	9,243	119	40.6	-1.9
Michigan	1,368	130	1,436	132	4,892	133	4,393	131	11.4	1.1
Ohio	2,860	104	2,821	110	11,290	107	12,436	113	-9.2	-4.6
Wisconsin	1,120	113	1,476	124	5,072	119	5,802	120	-12.6	-9
West North Central	3,366	86	5,667	95	15,270	93	17,136	102	-10.9	-9.0
Iowa	987	79	2,118	83	4,088	83	5,262	85	-22.3	-3.0
Kansas	839	90	1,140	103	3,717	96	3,272	107	13.6	-10.2
Minnesota	83	145	45	140	590	114	367	134	60.7	-14.4
Missouri	951	97	1,930	108	4,251	111	5,953	123	-28.6	-9.6
Nebraska	311	64	405	63	2,129	67	1,970	64	8.1	3.2
North Dakota	195	46	29	42	494	45	312	41	58.5	8.6
South Atlantic	9,016	136	6,812	134	27,945	133	24,823	138	12.6	-3.8
Delaware	-	207	50	161	22	174	325	167	-93.2	4.6
Florida	1,504	136	1,331	137	5,544	138	4,992	142	11.0	-3.1
Georgia	2,049	147	393	144	3,312	146	5,543	147	-40.2	-6
Maryland	603	148	213	138	2,222	148	1,448	147	53.5	.5
North Carolina	2,155	144	1,283	138	4,934	141	2,300	137	114.5	3.1
South Carolina	799	145	1,233	145	3,741	143	3,164	145	18.2	-1.3
Virginia	504	141	1,040	142	2,452	140	3,265	142	-24.9	-1.3
West Virginia	1,402	98	1,268	103	5,718	98	3,786	108	51.1	-8.6
East South Central	4,559	113	2,953	122	11,651	114	11,290	121	3.2	-5.7
Alabama	1,318	122	1,234	135	3,362	127	4,600	133	-26.9	-4.5
Kentucky	2,600	107	1,479	107	6,974	106	5,567	109	25.3	-2.6
Mississippi	94	137	223	148	582	132	396	143	47.0	-8.1
Tennessee	547	118	18	109	734	115	726	122	1.0	-5.4
West South Central	1,987	108	3,669	134	6,196	128	6,274	129	-1.2	-1.3
Arkansas	-	-	441	127	474	126	441	127	7.5	-6
Oklahoma	1,246	90	1,097	99	1,880	92	2,289	105	-17.9	-12.2
Texas	741	135	2,131	154	3,842	145	3,543	145	8.4	-6
Mountain	1,453	83	1,649	90	8,335	87	7,074	89	17.8	-2.2
Arizona	201	112	-	-	2,242	102	215	161	NM	-36.5
Colorado	429	98	786	101	1,899	99	2,743	95	-30.8	4.6
Utah	294	70	331	110	1,107	92	1,541	107	-28.1	-14.1
Wyoming	529	65	533	53	3,086	63	2,576	58	19.8	9.9
Pacific	994	117	377	111	2,825	115	848	111	233.1	3.7
Oregon	575	110	365	108	1,932	110	821	108	135.3	2.5
Washington	419	127	12	211	893	126	27	209	NM	-39.5
U.S. Total	34,420	119	34,143	120	125,434	119	114,452	122	9.6	-2.9

* For percentage calculations, the absolute value of the number is less than 0.05 percent.

NM Percent change calculation not meaningful as value is greater than 500.

Notes: Total may not equal sum of components because of independent rounding. MM Btu represents million Btu.

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

Table 34. Average Cost of Coal Receipts at Electric Utility Plants by Census Division and State
(Dollars per Short Ton)

Census Division and State	October-December 1992	July-September 1992	October-December 1991	Year to Date		
				1992	1991	Percent Change
New England	\$43.91	\$44.22	\$46.94	\$45.14	\$47.13	-4.2
Connecticut	44.59	45.91	58.68	51.30	57.35	-10.5
Massachusetts	43.60	43.82	44.84	44.11	45.33	-2.7
New Hampshire	44.64	44.66	45.11	44.66	46.20	-3.3
Mid Atlantic	36.80	36.45	38.55	37.55	38.99	-3.7
New Jersey	46.14	45.76	46.66	46.62	47.76	-2.4
New York	37.76	38.00	40.27	38.62	41.19	-6.3
Pennsylvania	35.93	35.74	37.78	36.79	38.05	-3.3
East North Central	31.89	31.94	31.55	32.13	32.63	-1.5
Illinois	38.45	36.65	35.88	37.23	36.76	1.3
Indiana	27.59	28.23	27.29	27.91	28.41	-1.8
Michigan	33.23	33.12	33.13	34.27	35.20	-2.6
Ohio	34.31	34.54	35.10	34.55	35.33	-2.2
Wisconsin	24.57	25.88	25.95	25.92	26.19	-1.0
West North Central	18.24	19.13	18.31	18.96	19.44	-2.5
Iowa	17.98	20.57	17.83	18.64	19.62	.1
Kansas	20.70	21.12	21.80	20.99	22.06	-4.8
Minnesota	19.12	21.81	19.75	21.15	22.18	-4.7
Missouri	27.87	26.88	26.64	27.57	27.65	-.3
Nebraska	12.22	13.17	11.81	12.70	12.73	.4
North Dakota	9.47	9.62	9.33	9.45	9.37	.9
South Dakota	12.97	13.33	13.47	13.68	13.65	.2
South Atlantic	40.72	41.02	41.82	41.28	42.18	-2.1
Delaware	45.56	44.93	46.83	45.31	46.51	-2.6
Florida	43.88	44.78	44.87	45.03	45.87	-1.8
Georgia	41.65	43.38	44.84	43.36	42.95	1.0
Maryland	40.34	39.57	42.04	40.68	41.83	-2.7
North Carolina	41.90	41.75	43.25	43.00	44.49	-3.4
South Carolina	39.76	38.74	38.96	39.13	41.37	-5.4
Virginia	38.40	37.92	38.17	37.81	38.87	-2.7
West Virginia	37.03	36.70	37.97	36.88	37.93	-2.8
East South Central	32.52	32.67	33.77	33.05	33.93	-2.6
Alabama	40.30	40.92	42.90	41.67	43.82	-4.9
Kentucky	27.17	26.66	27.26	27.01	27.19	-.7
Mississippi	41.14	39.42	39.96	39.94	41.92	-4.7
Tennessee	31.01	31.04	31.16	31.01	30.48	1.8
West South Central	23.02	21.81	23.40	22.58	22.98	-1.7
Arkansas	27.60	28.56	26.88	28.84	27.90	3.4
Louisiana	25.26	24.15	25.70	24.91	27.09	-8.1
Oklahoma	20.55	21.57	23.25	21.46	23.17	-7.4
Texas	22.58	20.71	22.53	21.62	21.66	-.2
Mountain	21.82	21.99	21.75	21.75	22.22	-2.1
Arizona	29.85	29.64	28.36	28.20	29.16	-3.3
Colorado	21.53	21.77	21.85	21.67	21.49	.8
Montana	12.14	11.67	11.15	12.14	11.44	6.1
Nevada	34.32	31.51	32.11	32.32	31.28	3.3
New Mexico	23.97	23.41	23.82	23.83	25.02	-4.8
Utah	25.57	29.62	27.10	27.54	27.40	.5
Wyoming	13.99	13.59	14.33	13.96	14.55	-4.0
Pacific	23.44	22.09	23.52	22.18	23.16	-4.2
Oregon	21.55	21.42	18.33	21.26	18.28	16.3
Washington	24.12	22.29	24.93	22.48	24.86	-9.6
U.S. Total	29.24	29.02	29.53	29.40	30.02	-2.1

Notes: Total may not equal sum of components because of independent rounding.

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

Table 35. Coal Receipts and Prices, by Sulfur Content at Electric Utility Plants, by State of Origin and Imports, January-December 1992

State	0-0.60 lbs sulfur per MM Btu		0.61-1.67 lbs sulfur per MM Btu		> 1.67 lbs. sulfur per MM Btu		Total			Percent Change vs prior year		
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Lbs. sulfur per MM Btu	Quantity	Price	Sulfur Content
Alabama	4,626	250	9,695	174	2,115	172	16,435	196	1.04	-4.5	-2.9	-0.5
Arizona	12,418	110	-	-	-	-	12,418	110	.47	-4.0	4.2	3.0
Colorado	16,230	137	275	99	-	-	16,505	137	.39	8.6	-.2	3.8
Illinois	35	157	11,528	160	42,940	158	54,504	158	2.33	-.8	-.3	-2.1
Indiana	455	132	2,830	126	21,715	124	25,001	124	2.20	-8.5	-3.1	-3.1
Iowa	-	-	-	-	67	171	67	171	4.44	-23.3	-1.3	3.2
Kansas	-	-	-	-	307	129	307	129	2.90	-21.5	-2.3	1.7
Kentucky	15,594	163	62,720	158	39,027	124	117,341	148	1.42	3.0	-2.9	-2.5
Louisiana	-	-	3,212	138	-	-	3,212	138	.90	2.0	3.7	-.4
Maryland	6	136	3,200	138	17	112	3,223	138	1.34	-8.5	-2.2	7.2
Missouri	-	-	-	-	2,622	163	2,622	163	3.92	32.8	-9.7	-1.1
Montana	17,554	169	19,755	99	-	-	37,309	134	.57	2.2	-4.3	-.9
New Mexico	6,835	165	17,423	138	-	-	24,258	146	.74	13.5	-5.6	-.9
North Dakota	-	-	23,943	75	1,608	79	25,552	75	1.34	6.4	.8	4.7
Ohio	18	146	961	137	27,942	141	28,922	141	2.88	-.6	-2.9	-2.7
Oklahoma	62	152	37	121	173	105	272	117	2.22	-43.4	-15.2	34.3
Pennsylvania	2,065	160	34,269	151	13,808	129	50,142	146	1.47	7.4	-5.6	.6
Tennessee	177	130	2,149	137	510	114	2,836	133	1.10	-11.0	3.2	-1.5
Texas	-	-	27,959	112	22,999	127	50,958	119	1.68	-.9	.9	2.9
Utah	13,795	122	44	179	-	-	13,839	123	.40	-5.7	-.6	-.5
Virginia	3,803	175	12,718	161	27	146	16,548	164	.85	2.4	-2.2	-4.1
Washington	2	151	4,984	140	-	-	4,986	140	.89	2.0	-9.8	6.5
West Virginia	23,880	168	37,405	158	23,458	143	84,743	157	1.28	.3	-1.6	-1.3
Wyoming	169,637	130	11,865	94	85	91	181,588	128	.43	-1.5	-2.1	.7
Imported	1,033	151	773	158	-	-	1,806	154	.58	-8.2	-1.9	1.6
Total	288,227	142	287,744	143	199,422	138	775,393	141	1.24	.7	-2.3	-1.1

Notes: Total may not equal sum of components because of independent rounding. MM Btu represents million Btu.

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

**Table 36. Destination of Coal Received at Electric Utility Plants by Origin,
January-December 1992, 1991**

State of Destination State of Origin and Imports	Receipts (thousand short tons)		Contract Receipts (percent)		Sulfur Content (lbs. sulfur per MM Btu)		Price (cents per MM Btu)	
	1992	1991	1992	1991	1992	1991	1992	1991
Alabama	24,878	24,350	86.5	81.1	1.19	1.15	173	181
Alabama	16,265	17,167	83.9	83.3	1.03	1.04	198	202
Illinois	956	1,030	95.3	92.6	1.69	1.64	122	127
Indiana	19	-	-	-	3.06	-	101	-
Kentucky	4,078	3,149	84.7	76.5	2.06	1.84	118	128
Ohio	-	158	-	100.0	-	1.72	-	118
Tennessee	809	1,049	100.0	64.0	.65	.83	130	131
West Virginia	2,752	1,795	97.8	69.6	.80	.88	143	139
Arizona	16,311	17,020	86.3	98.7	.49	.50	137	141
Arizona	7,441	7,889	91.1	100.0	.47	.46	105	102
Colorado	119	754	100.0	100.0	.34	.31	168	169
New Mexico	8,751	8,397	81.9	97.4	.52	.56	168	179
Arkansas	11,630	12,443	95.9	96.5	.37	.37	165	160
Wyoming	11,630	12,443	95.9	96.5	.37	.37	165	160
Colorado	15,597	15,500	87.8	82.3	.39	.38	109	109
Colorado	10,661	10,180	82.2	73.1	.39	.38	112	109
Wyoming	4,936	5,320	100.0	100.0	.38	.37	102	109
Connecticut	793	871	89.9	90.9	.42	.41	195	217
Kentucky	772	871	89.6	90.9	.42	.41	196	217
West Virginia	21	-	100.0	-	.50	-	169	-
Delaware	1,532	2,002	98.6	83.8	.79	.74	173	178
Kentucky	-	52	-	100.0	-	.65	-	174
Maryland	-	15	-	-	-	1.21	-	141
Pennsylvania	137	389	84.0	35.2	1.07	1.10	178	167
Virginia	90	99	100.0	85.2	.63	.83	201	201
West Virginia	1,304	1,447	100.0	97.0	.77	.63	171	180
Florida	24,377	24,461	77.3	79.6	1.36	1.40	182	186
Alabama	72	-	-	-	2.28	-	121	-
Colorado	181	-	-	-	.34	-	147	-
Illinois	5,504	4,637	73.8	93.0	2.36	2.39	194	209
Indiana	-	164	-	-	-	2.63	-	111
Kentucky	14,716	14,889	77.3	78.4	1.17	1.27	177	179
Ohio	-	240	-	-	-	2.98	-	164
Pennsylvania	-	3	-	-	-	1.12	-	128
Tennessee	269	158	100.0	100.0	.92	.92	218	218
Utah	32	-	-	-	.34	-	164	-
Virginia	882	892	96.9	95.4	.58	.62	223	226
West Virginia	1,290	1,830	94.0	93.7	1.09	.92	198	196
Wyoming	12	-	-	-	.23	-	142	-
Imported coal Colombia	1,419	1,583	75.1	48.1	.60	.61	150	153
Imported coal Venezuela	-	42	-	-	-	.43	-	127
Georgia	22,851	24,694	85.5	77.6	1.40	1.36	180	180
Alabama	98	39	-	-	1.69	1.94	136	140
Illinois	5,137	5,055	98.3	100.0	2.47	2.50	208	208
Indiana	555	136	100.0	86.5	2.22	2.12	138	138
Kentucky	11,981	12,689	83.4	78.4	1.19	1.24	164	165
Tennessee	-	39	-	-	-	1.54	-	152
Virginia	2,615	3,166	93.6	79.3	1.04	1.05	181	177
West Virginia	2,453	2,363	60.8	64.5	.57	.54	218	223
Wyoming	12	1,207	-	-	.43	.41	127	153
Illinois	25,449	26,813	89.4	85.2	1.79	1.66	175	171
Colorado	470	336	-	-	.39	.39	141	144
Illinois	14,818	15,870	93.8	91.3	2.63	2.70	144	141
Indiana	826	1,616	67.7	59.2	1.64	1.37	138	135
Kentucky	1,187	1,434	72.7	73.3	.49	.55	169	167
Montana	3,036	3,228	100.0	100.0	.37	.36	283	278
Tennessee	-	10	-	100.0	-	.59	-	149
Utah	239	-	-	-	.37	-	121	-
West Virginia	492	721	71.6	39.0	.57	.55	152	150
Wyoming	4,382	3,598	92.4	79.0	.45	.41	243	260
Indiana	47,838	46,292	72.8	80.0	1.76	1.88	131	134
Colorado	773	689	56.1	-	.37	.39	154	170
Illinois	9,565	8,452	86.9	88.8	2.43	2.42	156	161
Indiana	19,079	19,455	65.0	77.4	2.20	2.38	121	123
Kentucky	4,380	4,738	80.9	87.8	2.29	2.36	120	122
Montana	452	725	100.0	100.0	.37	.36	278	280
Ohio	19	38	-	-	2.46	2.27	129	135
Virginia	132	17	-	-	.53	.40	162	163
West Virginia	1,652	472	2.4	-	.57	.55	140	151
Wyoming	11,786	11,707	81.9	82.1	.40	.40	123	128

See footnotes at end of table.

Table 36. Destination of Coal Received at Electric Utility Plants by Origin, January-December 1992, 1991 (Continued)

State of Destination State of Origin and Imports	Receipts (thousand short tons)		Contract Receipts (percent)		Sulfur Content (lbs. sulfur per MM Btu)		Price (cents per MM Btu)	
	1992	1991	1992	1991	1992	1991	1992	1991
Iowa	15,037	16,344	72.8	67.8	0.76	0.75	111	110
Illinois	1,417	1,336	99.5	93.1	2.28	2.34	169	178
Indiana	470	857	90.9	90.8	2.24	2.25	129	134
Iowa	67	87	100.0	100.0	4.44	4.30	171	173
Kentucky	27	3	-	-	2.72	2.49	105	148
Wyoming	13,057	14,061	69.3	63.8	.44	.41	101	100
Kansas	13,634	14,401	72.7	77.3	.55	.66	118	123
Colorado	328	-	89.6	-	.40	-	112	-
Illinois	767	1,485	25.0	16.5	2.25	2.31	156	147
Kansas	90	99	100.0	61.8	2.50	2.44	120	120
Missouri	48	10	-	-	3.04	2.94	118	114
Wyoming	12,402	12,807	75.3	84.5	.38	.39	115	119
Kentucky	32,292	30,591	78.4	81.8	2.10	2.19	116	118
Illinois	7	15	-	-	2.15	2.39	110	100
Indiana	2,237	2,385	51.7	79.7	2.53	2.36	99	106
Kentucky	26,187	23,431	81.7	82.5	2.24	2.45	116	117
Ohio	249	179	99.3	58.9	1.89	2.60	184	149
Pennsylvania	42	-	-	-	1.86	-	100	-
Tennessee	500	608	82.4	92.7	2.01	1.79	113	115
West Virginia	3,069	3,465	68.9	75.4	.70	.67	126	130
Wyoming	-	506	-	100.0	-	.51	-	124
Louisiana	12,675	12,212	100.0	100.0	.61	.59	153	165
Louisiana	3,212	3,150	100.0	100.0	.90	.90	138	133
West Virginia	-	152	-	100.0	-	.45	-	159
Wyoming	9,463	8,909	100.0	100.0	.54	.51	158	174
Maryland	9,284	8,668	76.1	83.3	1.07	1.05	159	163
Kentucky	215	279	85.1	87.5	.57	.50	155	156
Maryland	1,203	1,388	55.1	83.6	1.25	1.17	166	173
Ohio	-	7	-	-	-	1.57	-	167
Pennsylvania	2,893	2,194	80.6	97.0	1.48	1.46	170	176
Virginia	78	-	-	-	.57	-	170	-
West Virginia	4,696	4,800	79.4	76.8	.81	.86	152	155
Massachusetts	4,194	4,278	88.8	83.5	.90	.93	169	172
Kentucky	10	1	-	100.0	.49	.58	171	175
Pennsylvania	395	434	70.2	11.2	1.01	1.11	168	175
Virginia	611	1,146	99.6	78.6	.82	.79	175	175
West Virginia	2,981	2,613	90.9	97.0	.92	.97	168	171
Imported coal Canada	33	-	-	-	1.03	-	175	-
Imported coal Colombia	35	-	-	-	.45	-	145	-
Imported coal Venezuela	129	84	100.0	100.0	.56	.57	165	167
Michigan	27,845	28,866	82.4	84.8	.63	.63	156	159
Indiana	205	118	39.0	70.7	2.23	2.16	150	159
Kentucky	6,391	6,119	84.3	86.8	.73	.75	172	178
Montana	10,544	11,032	100.0	99.1	.39	.38	151	152
Ohio	40	135	100.0	94.1	2.79	2.62	223	198
Pennsylvania	1,753	1,889	80.0	78.3	1.30	1.33	154	150
Virginia	21	-	-	-	1.01	-	149	-
West Virginia	5,661	6,460	71.5	80.1	.67	.65	162	168
Wyoming	3,229	3,113	44.9	44.1	.33	.35	111	112
Minnesota	15,154	16,187	96.1	97.7	.51	.54	120	126
Illinois	63	53	32.1	100.0	1.55	1.50	162	161
Indiana	-	75	100.0	-	1.11	1.51	90	154
Montana	7,929	9,048	97.0	97.1	.69	.71	124	134
North Dakota	-	1	-	100.0	-	1.17	-	178
Pennsylvania	11	8	5.6	56.4	1.53	1.08	142	178
Wyoming	7,151	7,002	95.8	99.7	.29	.30	115	115
Mississippi	3,208	3,727	81.9	89.4	1.35	1.25	160	167
Illinois	1,239	1,340	85.4	98.3	2.15	2.14	133	146
Kentucky	1,816	2,282	86.3	88.3	.86	.76	179	180
Montana	82	105	-	-	.32	.32	136	145
Wyoming	71	-	-	-	.39	-	153	-
Missouri	24,502	25,204	82.7	76.4	1.74	1.79	134	134
Colorado	496	377	98.2	100.0	.41	.40	161	160
Illinois	11,376	12,438	92.2	83.7	2.13	2.20	153	150
Indiana	63	122	100.0	54.0	2.69	3.14	110	130
Kansas	217	292	38.0	24.0	3.08	3.00	133	137
Kentucky	585	815	93.7	93.9	2.86	2.62	126	124
Missouri	2,574	1,964	97.4	98.8	3.94	3.97	163	180
New Mexico	-	8	-	-	-	.42	-	167

See footnotes at end of table.

**Table 36. Destination of Coal Received at Electric Utility Plants by Origin,
January-December 1992, 1991 (Continued)**

State of Destination State of Origin and Imports	Receipts (thousand short tons)		Contract Receipts (percent)		Sulfur Content (lbs. sulfur per MM Btu)		Price (cents per MM Btu)	
	1992	1991	1992	1991	1992	1991	1992	1991
Missouri								
Utah	79	-	-	-	0.35	-	141	-
Wyoming	9,112	9,188	66.7	61.2	.34	0.41	91	94
Montana	10,660	10,398	100.0	100.0	.77	.76	71	67
Montana	10,660	10,398	100.0	100.0	.77	.76	71	67
Nebraska	7,810	8,908	72.7	77.9	.43	.41	75	75
Colorado	-	-	-	-	.35	-	159	-
Wyoming	7,809	8,908	72.7	77.9	.43	.41	75	75
Nevada	7,894	8,084	100.0	100.0	.45	.45	146	141
Arizona	4,977	5,062	100.0	100.0	.47	.45	119	112
Colorado	168	-	100.0	-	.43	-	215	-
Utah	1,948	2,553	100.0	100.0	.38	.43	187	185
Wyoming	800	469	100.0	100.0	.50	.50	200	201
New Hampshire	1,183	1,284	89.7	87.0	1.23	1.08	168	174
Pennsylvania	680	740	98.8	100.0	1.18	1.14	172	176
West Virginia	420	337	80.2	50.4	1.46	1.35	165	171
Imported coal Colombia	48	-	38.0	-	.49	-	157	-
Imported coal Venezuela	34	207	100.0	100.0	.45	.40	168	174
New Jersey	2,205	2,027	93.2	92.5	.96	.94	173	178
Kentucky	189	25	87.7	-	.63	.61	183	170
Pennsylvania	15	15	-	-	1.96	1.87	150	160
Virginia	806	735	98.7	98.5	.58	.58	176	178
West Virginia	1,195	1,252	91.5	91.9	1.27	1.17	170	179
New Mexico	14,929	12,888	100.0	100.0	.90	.89	132	138
New Mexico	14,929	12,888	100.0	100.0	.90	.89	132	138
New York	10,393	9,235	55.4	64.6	1.27	1.37	149	159
Kentucky	377	716	70.0	96.5	.43	.41	207	211
Maryland	18	18	-	-	1.43	1.42	143	151
Pennsylvania	6,895	5,072	51.4	45.2	1.34	1.41	142	152
West Virginia	3,105	3,420	62.9	87.1	1.24	1.52	156	159
Wyoming	-	9	-	-	.43	-	-	191
North Carolina	20,660	18,167	76.1	87.3	.74	.75	173	178
Kentucky	9,659	8,441	72.0	86.4	.75	.76	176	183
Tennessee	35	2	-	-	1.05	1.01	151	147
Virginia	4,637	4,184	93.1	98.3	.85	.86	172	172
West Virginia	6,329	5,539	70.3	80.4	.63	.66	168	174
North Dakota	23,427	21,683	97.9	98.6	1.32	1.26	72	71
North Dakota	23,422	21,683	97.9	98.6	1.32	1.26	72	71
Wyoming	5	-	-	-	.56	-	68	-
Ohio	50,601	49,517	77.7	74.9	2.14	2.20	144	148
Indiana	135	-	-	-	3.03	-	90	-
Kentucky	7,961	8,253	71.8	67.4	.96	.97	150	158
Ohio	26,882	26,663	80.8	77.3	2.88	2.95	142	145
Pennsylvania	3,236	2,676	57.4	65.3	1.60	1.61	129	138
Virginia	-	18	-	-	-	.63	-	143
West Virginia	12,312	11,863	81.4	77.2	1.48	1.55	149	149
Wyoming	61	45	-	-	.41	.40	120	142
Oklahoma	16,840	15,868	88.8	85.6	.49	.50	123	132
Oklahoma	272	480	75.7	85.4	2.22	1.66	117	138
Wyoming	16,568	15,388	89.1	85.6	.45	.44	123	131
Oregon	1,932	1,719	-	52.2	.41	.37	110	108
Montana	1,833	-	-	-	.42	-	110	-
Utah	99	-	-	-	.32	-	107	-
Wyoming	-	1,719	-	52.2	-	.37	-	108
Pennsylvania	41,043	40,804	73.6	83.3	1.71	1.74	148	155
Kentucky	-	15	-	100.0	-	1.06	-	177
Ohio	485	892	81.9	99.9	2.81	3.27	160	161
Pennsylvania	31,273	30,237	66.9	78.7	1.51	1.49	146	155
West Virginia	9,284	9,660	95.9	96.4	2.33	2.34	157	152
South Carolina	9,255	9,215	59.6	65.7	.89	.94	153	163
Kentucky	8,353	8,228	55.4	62.3	.88	.92	152	163
Virginia	827	927	99.5	94.6	1.03	1.07	154	160
West Virginia	76	60	89.9	78.1	.81	.78	182	179
South Dakota	2,130	2,326	100.0	100.0	1.52	1.45	113	113
North Dakota	2,130	2,326	100.0	100.0	1.52	1.45	113	113
Tennessee	20,372	18,730	96.4	96.1	1.66	1.68	127	125
Illinois	2,831	2,357	87.5	78.4	1.74	1.73	123	125
Kentucky	14,824	13,797	98.3	99.2	1.75	1.76	128	125
Pennsylvania	3	-	-	-	1.82	-	120	-

See footnotes at end of table.

**Table 36. Destination of Coal Received at Electric Utility Plants by Origin,
January-December 1992, 1991 (Continued)**

State of Destination State of Origin and Imports	Receipts (thousand short tons)		Contract Receipts (percent)		Sulfur Content (lbs. sulfur per MM Btu)		Price (cents per MM Btu)	
	1992	1991	1992	1991	1992	1991	1992	1991
Tennessee								
Tennessee	1,223	1,318	91.8	92.0	1.06	1.04	123	122
Virginia	1,392	1,258	99.8	100.0	1.16	1.36	129	130
West Virginia	28	-	-	-	1.17	-	126	-
Wyoming	71	-	99.5	-	.58	-	132	-
Texas	87,074	87,189	95.6	95.9	1.05	1.04	149	150
Colorado	1,781	1,734	67.8	69.5	.36	.35	205	208
Texas	50,958	51,425	99.6	100.0	1.68	1.63	119	118
Wyoming	34,256	34,031	91.2	91.1	.41	.42	179	182
Imported coal Colombia	37	-	-	-	.48	-	174	-
Imported coal Venezuela	42	-	-	-	.50	-	176	-
Utah	12,840	13,254	91.4	88.4	.41	.40	121	119
Colorado	1,517	1,130	100.0	100.0	.46	.42	201	228
Utah	11,323	12,124	90.2	37.3	.41	.39	111	110
Virginia	8,915	8,599	72.5	62.3	.80	.79	147	152
Kentucky	2,663	2,736	65.8	53.5	.84	.86	150	152
Virginia	4,395	3,676	79.7	67.7	.74	.74	142	150
West Virginia	1,857	2,187	84.9	63.2	.88	.77	155	156
Washington	5,836	4,917	84.7	99.5	.80	.83	137	155
Montana	714	-	-	-	.43	-	123	-
Utah	118	-	-	-	.31	-	128	-
Washington	4,986	4,890	99.1	100.0	.89	.83	140	155
Wyoming	2	-	-	-	.25	-	181	-
Imported coal Canada	15	27	-	-	.42	.46	215	209
West Virginia	28,325	28,549	79.8	86.7	1.64	1.54	147	152
Kentucky	524	540	95.5	32.4	.69	.68	182	203
Maryland	2,003	2,100	72.2	81.7	1.40	1.31	120	119
Ohio	1,246	787	-	79.5	3.21	3.31	92	95
Pennsylvania	1,275	1,133	38.8	50.9	2.08	1.62	112	116
West Virginia	23,277	23,989	86.6	89.0	1.57	1.51	154	157
Wisconsin	17,603	19,087	71.2	69.6	.73	.84	133	136
Colorado	10	-	-	-	.36	-	141	-
Illinois	823	761	39.1	72.5	1.25	1.36	145	151
Indiana	1,411	2,391	93.3	76.7	1.87	1.90	193	182
Kentucky	446	407	-	-	.91	.87	146	156
Montana	1,858	1,954	75.3	71.7	.76	.72	155	159
New Mexico	578	83	100.0	-	.44	.45	151	173
Pennsylvania	1,534	1,900	100.0	99.4	1.20	1.32	157	156
Virginia	62	49	-	-	.48	.57	155	173
West Virginia	291	90	73.1	-	.51	1.10	166	173
Wyoming	10,595	11,453	67.7	66.5	.40	.40	109	110
Wyoming	24,181	22,549	87.2	88.6	.59	.58	79	83
Wyoming	24,181	22,549	87.2	88.6	.59	.58	79	83
U.S. Total	775,393	769,923	83.8	85.1	1.24	1.26	141	145

* For quantity data, the number is less than 0.5 thousand short tons. For Contract Receipts (percent), the value is less than 0.05.

Notes: Total may not equal sum of components because of independent rounding. MM Btu represents million Btu.

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

Table 37. Origin of Coal Received at Electric Utility Plants by Destination, January-December 1992, 1991

State of Origin and Imports State of Destination	Receipts (thousand short tons)		Contract Receipts (percent)		Sulfur Content (lbs. sulfur per MM Btu)		Price (cents per MM Btu)	
	1992	1991	1992	1991	1992	1991	1992	1991
Alabama	16,435	17,207	83.1	83.1	1.04	1.05	196	202
Alabama	16,265	17,167	83.9	83.3	1.03	1.04	196	202
Florida	72	-	-	-	2.28	-	121	-
Georgia	98	39	-	-	1.69	1.94	136	140
Arizona	12,418	12,932	84.7	100.0	.47	.46	110	106
Arizona	7,441	7,869	91.1	100.0	.47	.46	105	102
Nevada	4,977	5,062	100.0	100.0	.47	.45	119	112
Colorado	16,505	15,200	78.7	71.7	.39	.37	137	137
Arizona	119	754	100.0	100.0	.34	.31	168	169
Colorado	10,661	10,180	82.2	73.1	.39	.38	112	109
Florida	181	-	-	-	.34	-	147	-
Illinois	470	336	-	-	.39	.39	141	144
Indiana	773	689	56.1	-	.37	.39	154	170
Kansas	328	-	89.6	-	.40	-	112	-
Missouri	496	377	98.2	100.0	.41	.40	161	160
Nebraska	-	-	-	-	.35	-	159	-
Nevada	168	-	100.0	-	.43	-	215	-
Texas	1,781	1,734	67.8	69.5	.36	.35	205	208
Utah	1,517	1,130	100.0	100.0	.46	.42	201	228
Wisconsin	10	-	-	-	.36	-	141	-
Illinois	54,504	54,831	88.4	87.5	2.33	2.38	158	159
Alabama	956	1,030	95.3	92.6	1.69	1.64	122	127
Florida	5,504	4,637	73.8	93.0	2.36	2.39	194	209
Georgia	5,137	5,055	98.3	100.0	2.47	2.50	208	208
Illinois	14,818	15,870	93.8	91.3	2.63	2.70	144	141
Indiana	9,565	8,452	86.9	88.8	2.43	2.42	156	161
Iowa	1,417	1,336	99.5	93.1	2.28	2.34	169	178
Kansas	767	1,485	25.0	16.5	2.25	2.31	156	147
Kentucky	7	15	-	-	2.15	2.39	110	100
Minnesota	63	53	32.1	100.0	1.55	1.50	162	161
Mississippi	1,239	1,340	85.4	98.3	2.15	2.14	133	146
Missouri	11,376	12,438	92.2	83.7	2.13	2.20	153	150
Tennessee	2,831	2,357	87.5	78.4	1.74	1.73	123	125
Wisconsin	823	761	39.1	72.5	1.25	1.36	145	151
Indiana	25,001	27,318	66.3	76.1	2.20	2.27	124	128
Alabama	19	-	-	-	3.06	-	101	-
Florida	-	164	-	-	-	2.63	-	111
Georgia	555	136	100.0	86.5	2.22	2.12	138	138
Illinois	826	1,616	67.7	59.2	1.64	1.37	138	135
Indiana	19,079	19,455	65.0	77.4	2.20	2.38	121	123
Iowa	470	857	90.9	90.8	2.24	2.25	129	134
Kentucky	2,237	2,385	51.7	79.7	2.53	2.36	99	106
Michigan	205	118	39.0	70.7	2.23	2.16	150	159
Minnesota	-	75	100.0	-	1.11	1.51	90	154
Missouri	63	122	100.0	54.0	2.69	3.14	110	130
Ohio	135	-	-	-	3.03	-	90	-
Wisconsin	1,411	2,391	93.3	76.7	1.87	1.90	193	182
Iowa	67	87	100.0	100.0	4.44	4.30	171	173
Iowa	67	87	100.0	100.0	4.44	4.30	171	173
Kansas	307	391	56.1	33.5	2.90	2.85	129	133
Kansas	90	99	100.0	61.8	2.50	2.44	120	120
Missouri	217	292	38.0	24.0	3.08	3.00	133	137
Kentucky	117,341	113,908	79.7	80.8	1.42	1.46	148	152
Alabama	4,078	3,149	84.7	76.5	2.06	1.84	118	128
Connecticut	772	871	89.6	90.9	.42	.41	196	217
Delaware	-	52	-	100.0	-	.65	-	174
Florida	14,716	14,889	77.3	78.4	1.17	1.27	177	179
Georgia	11,981	12,689	83.4	78.4	1.19	1.24	164	165
Illinois	1,187	1,434	72.7	73.3	.49	.55	169	167
Indiana	4,380	4,738	80.9	87.8	2.29	2.36	120	122
Iowa	27	3	-	-	2.72	2.49	105	146
Kentucky	26,187	23,431	81.7	82.5	2.24	2.45	116	117
Maryland	215	279	85.1	87.5	.57	.50	155	156
Massachusetts	10	1	-	100.0	.49	.58	171	175
Michigan	6,391	6,119	84.3	86.8	.73	.75	172	178
Mississippi	1,816	2,282	86.3	88.3	.86	.76	179	180
Missouri	585	815	93.7	93.9	2.86	2.62	126	124
New Jersey	189	25	87.7	-	.63	.61	183	170
New York	377	716	70.0	96.5	.43	.41	207	211

See footnotes at end of table.

**Table 37. Origin of Coal Received at Electric Utility Plants by Destination,
January-December 1992, 1991 (Continued)**

State of Origin and Imports State of Destination	Receipts (thousand short tons)		Contract Receipts (percent)		Sulfur Content (lbs. sulfur per MM Btu)		Price (cents per MM Btu)	
	1992	1991	1992	1991	1992	1991	1992	1991
Kentucky								
North Carolina	9,659	8,441	72.0	86.4	0.75	0.76	176	183
Ohio	7,961	8,253	71.8	67.4	.96	.97	150	158
Pennsylvania	-	15	-	100.0	-	1.06	-	177
South Carolina	8,353	8,228	55.4	62.3	.88	.92	152	163
Tennessee	14,824	13,797	98.3	99.2	1.75	1.76	128	125
Virginia	2,663	2,736	65.8	53.5	.84	.86	150	152
West Virginia	524	540	95.5	92.4	.69	.68	182	203
Wisconsin	446	407	-	-	.91	.87	146	156
Louisiana	3,212	3,150	100.0	100.0	.90	.90	138	133
Louisiana	3,212	3,150	100.0	100.0	.90	.90	138	133
Maryland	3,223	3,522	65.4	81.7	1.34	1.25	138	141
Delaware	-	15	-	-	-	1.21	-	141
Maryland	1,203	1,388	55.1	83.6	1.25	1.17	166	173
New York	18	18	-	-	1.43	1.42	143	151
West Virginia	2,003	2,100	72.2	81.7	1.40	1.31	120	119
Missouri	2,622	1,975	95.6	98.3	3.92	3.97	163	180
Kansas	48	10	-	-	3.04	2.94	118	114
Missouri	2,574	1,964	97.4	98.8	3.94	3.97	163	180
Montana	37,309	36,489	91.1	97.2	.57	.58	134	140
Illinois	3,036	3,228	100.0	100.0	.37	.36	283	278
Indiana	452	725	100.0	100.0	.37	.36	278	280
Michigan	10,544	11,032	100.0	99.1	.39	.38	151	152
Minnesota	7,929	9,048	97.0	97.1	.69	.71	124	134
Mississippi	82	105	-	-	.32	.32	136	145
Montana	10,860	10,398	100.0	100.0	.77	.76	71	67
Oregon	1,833	-	-	-	.42	-	110	-
Washington	714	-	-	-	.43	-	123	-
Wisconsin	1,858	1,954	75.3	71.7	.76	.72	155	159
New Mexico	24,258	21,375	93.5	98.6	.74	.75	146	155
Arizona	8,751	8,397	81.9	97.4	.52	.56	168	179
Missouri	-	8	-	-	-	.42	-	167
New Mexico	14,929	12,888	100.0	100.0	.90	.89	132	138
Wisconsin	578	83	100.0	-	.44	.45	151	173
North Dakota	25,552	24,010	98.1	98.7	1.34	1.28	75	75
Minnesota	-	1	-	100.0	-	1.17	-	178
North Dakota	23,422	21,683	97.9	98.6	1.32	1.26	72	71
South Dakota	2,130	2,326	100.0	100.0	1.52	1.45	113	113
Ohio	28,922	29,099	77.5	77.4	2.88	2.96	141	145
Alabama	-	158	-	100.0	-	1.72	-	118
Florida	-	240	-	-	-	2.98	-	164
Indiana	19	38	-	-	2.46	2.27	129	135
Kentucky	249	179	99.3	58.9	1.89	2.60	184	149
Maryland	-	7	-	-	-	1.57	-	167
Michigan	40	135	100.0	94.1	2.79	2.62	223	198
Ohio	26,882	26,663	80.8	77.3	2.88	2.95	142	145
Pennsylvania	485	892	81.9	99.9	2.81	3.27	160	161
West Virginia	1,246	787	-	79.5	3.21	3.31	92	95
Oklahoma	272	480	75.7	85.4	2.22	1.66	117	138
Oklahoma	272	480	75.7	85.4	2.22	1.66	117	138
Pennsylvania	50,142	46,689	66.1	74.6	1.47	1.47	146	154
Delaware	137	389	84.0	35.2	1.07	1.10	178	167
Florida	-	3	-	-	-	1.12	-	128
Kentucky	42	-	-	-	1.86	-	100	-
Maryland	2,893	2,194	80.6	97.0	1.48	1.46	170	176
Massachusetts	395	434	70.2	11.2	1.01	1.11	168	175
Michigan	1,753	1,889	80.0	78.3	1.30	1.33	154	150
Minnesota	11	8	5.6	56.4	1.53	1.08	142	178
New Hampshire	680	740	98.8	100.0	1.18	1.14	172	176
New Jersey	15	15	-	-	1.96	1.87	150	160
New York	6,895	5,072	51.4	45.2	1.34	1.41	142	152
Ohio	3,236	2,676	57.4	65.3	1.60	1.61	129	138
Pennsylvania	31,273	30,237	66.9	78.7	1.51	1.49	146	155
Tennessee	3	-	-	-	1.82	-	120	-
West Virginia	1,275	1,133	38.8	50.9	2.08	1.62	112	116
Wisconsin	1,534	1,900	100.0	99.4	1.20	1.32	157	156
Tennessee	2,836	3,185	92.1	82.2	1.10	1.11	133	129
Alabama	809	1,049	100.0	64.0	.65	.83	130	131
Florida	269	158	100.0	100.0	.92	.92	218	218

See footnotes at end of table.

Table 37. Origin of Coal Received at Electric Utility Plants by Destination, January-December 1992, 1991 (Continued)

State of Origin and Imports State of Destination	Receipts (thousand short tons)		Contract Receipts (percent)		Sulfur Content (lbs. sulfur per MM Btu)		Price (cents per MM Btu)	
	1992	1991	1992	1991	1992	1991	1992	1991
Tennessee								
Georgia	-	39	-	-	-	1.54	-	152
Illinois	-	10	-	100.0	-	.59	-	149
Kentucky	500	608	82.4	92.7	2.01	1.79	113	115
North Carolina	35	2	-	-	1.05	1.01	151	147
Tennessee	1,223	1,318	91.8	92.0	1.06	1.04	123	122
Texas	50,958	51,425	99.6	100.0	1.68	1.63	119	118
Texas	50,958	51,425	99.6	100.0	1.68	1.63	119	118
Utah	13,839	14,677	87.9	89.5	.40	.40	123	123
Florida	32	-	-	-	.34	-	164	-
Illinois	239	-	-	-	.37	-	121	-
Missouri	79	-	-	-	.35	-	141	-
Nevada	1,948	2,553	100.0	100.0	.38	.43	187	185
Oregon	99	-	-	-	.32	-	107	-
Utah	11,323	12,124	90.2	87.3	.41	.39	111	110
Washington	118	-	-	-	.31	-	128	-
Virginia	16,548	16,167	89.6	85.4	.85	.89	164	168
Delaware	90	99	100.0	85.2	.63	.83	201	201
Florida	882	892	96.9	95.4	.58	.62	223	226
Georgia	2,615	3,166	93.6	79.3	1.04	1.05	181	177
Indiana	132	17	-	-	.53	.40	162	163
Maryland	78	-	-	-	.57	-	170	-
Massachusetts	611	1,146	99.6	78.6	.82	.79	175	175
Michigan	21	-	-	-	1.01	-	149	-
New Jersey	806	735	98.7	98.5	.58	.58	176	178
North Carolina	4,637	4,184	93.1	98.3	.85	.86	172	172
Ohio	-	18	-	-	-	.63	-	143
South Carolina	827	927	99.5	94.6	1.03	1.07	154	160
Tennessee	1,392	1,258	99.8	100.0	1.16	1.36	129	130
Virginia	4,395	3,676	79.7	67.7	.74	.74	142	150
Wisconsin	62	49	-	-	.48	.57	155	173
Washington	4,986	4,890	99.1	100.0	.89	.83	140	155
Washington	4,986	4,890	99.1	100.0	.89	.83	140	155
West Virginia	84,743	84,516	80.6	83.2	1.28	1.29	157	160
Alabama	2,752	1,795	97.8	69.6	.80	.88	143	139
Connecticut	21	-	100.0	-	.50	-	169	-
Delaware	1,304	1,447	100.0	97.0	.77	.63	171	180
Florida	1,290	1,830	94.0	93.7	1.09	.92	198	196
Georgia	2,453	2,363	60.8	64.5	.57	.54	218	223
Illinois	492	721	71.6	39.0	.57	.55	152	150
Indiana	1,652	472	2.4	-	.57	.55	140	151
Kentucky	3,069	3,465	68.9	75.4	.70	.67	126	130
Louisiana	-	152	-	100.0	-	.45	-	159
Maryland	4,896	4,800	79.4	76.8	.81	.86	152	155
Massachusetts	2,981	2,613	90.9	97.0	.92	.97	168	171
Michigan	5,661	6,460	71.5	80.1	.67	.65	162	168
New Hampshire	420	337	80.2	50.4	1.46	1.35	165	171
New Jersey	1,195	1,252	91.5	91.9	1.27	1.17	170	179
New York	3,105	3,420	62.9	87.1	1.24	1.52	156	159
North Carolina	6,329	5,539	70.3	80.4	.63	.66	168	174
Ohio	12,312	11,863	81.4	77.2	1.48	1.55	149	149
Pennsylvania	9,284	9,660	95.9	96.4	2.33	2.34	157	152
South Carolina	76	60	89.9	78.1	.81	.78	182	179
Tennessee	28	-	-	-	1.17	-	126	-
Virginia	1,857	2,187	64.9	63.2	.88	.77	155	156
West Virginia	23,277	23,989	86.6	89.0	1.57	1.51	154	157
Wisconsin	291	90	73.1	-	.51	1.10	166	173
Wyoming	181,588	184,433	84.2	83.0	.43	.43	128	130
Arkansas	11,630	12,443	95.9	96.5	.37	.37	165	160
Colorado	4,936	5,320	100.0	100.0	.38	.37	102	109
Florida	12	-	-	-	.23	-	142	-
Georgia	12	1,207	-	-	.43	.41	127	153
Illinois	4,382	3,598	92.4	79.0	.45	.41	243	260
Indiana	11,786	11,707	81.9	82.1	.40	.40	123	128
Iowa	13,057	14,061	69.3	63.8	.44	.41	101	100
Kansas	12,402	12,807	75.3	84.5	.38	.39	115	119
Kentucky	-	506	-	100.0	-	.51	-	124
Louisiana	9,463	8,909	100.0	100.0	.54	.51	158	174
Michigan	3,229	3,113	44.9	44.1	.33	.35	111	112

See footnotes at end of table.

**Table 37. Origin of Coal Received at Electric Utility Plants by Destination,
January-December 1992, 1991 (Continued)**

State of Origin and Imports State of Destination	Receipts (thousand short tons)		Contract Receipts (percent)		Sulfur Content (lbs. sulfur per MM Btu)		Price (cents per MM Btu)	
	1992	1991	1992	1991	1992	1991	1992	1991
Wyoming								
Minnesota	7,151	7,002	95.8	99.7	0.29	0.30	115	115
Mississippi	71	-	-	-	.39	-	153	-
Missouri	9,112	9,188	66.7	61.2	.34	.41	91	94
Nebraska	7,809	8,908	72.7	77.9	.43	.41	75	75
Nevada	800	469	100.0	100.0	.50	.50	200	201
New York	-	9	-	-	-	.43	-	191
North Dakota	5	-	-	-	.56	-	68	-
Ohio	61	45	-	-	.41	.40	120	142
Oklahoma	16,568	15,388	89.1	85.6	.45	.44	123	131
Oregon	-	1,719	-	52.2	-	.37	-	108
Tennessee	71	-	99.5	-	.58	-	132	-
Texas	34,256	34,031	91.2	91.1	.41	.42	179	182
Washington	2	-	-	-	.25	-	181	-
Wisconsin	10,595	11,453	67.7	66.5	.40	.40	109	110
Wyoming	24,181	22,549	87.2	88.6	.59	.58	79	83
Imported Coal	1,806	1,967	89.0	53.5	.58	.58	154	157
Canada	48	27	-	-	.87	.46	185	209
Massachusetts	33	-	-	-	1.03	-	175	-
Washington	15	27	-	-	.42	.46	215	209
Colombia	1,539	1,583	70.4	48.1	.59	.61	151	153
Florida	1,419	1,583	75.1	48.1	.60	.61	150	153
Massachusetts	35	-	-	-	.45	-	145	-
New Hampshire	48	-	38.0	-	.48	-	157	-
Texas	37	-	-	-	.48	-	174	-
Venezuela	206	333	79.4	87.3	.53	.45	168	166
Florida	-	42	-	-	-	.43	-	127
Massachusetts	129	84	100.0	100.0	.56	.57	165	167
New Hampshire	34	207	100.0	100.0	.45	.40	168	174
Texas	42	-	-	-	.50	-	176	-
U.S. Total	775,393	769,923	83.8	85.1	1.24	1.26	141	145

* For quantity data, the number is less than 0.5 thousand short tons. For Contract Receipts (percent), the value is less than 0.05.
Notes: Total may not equal sum of components because of independent rounding. MM Btu represents million Btu.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

**Table 38. Coal Receipts at Coke Plants
(Thousand Short Tons)**

Coal Receipts	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
By State						
Alabama	807	842	817	3,334	3,114	7.1
Illinois	w	w	w	w	w	w
Indiana	1,383	1,753	2,131	6,894	8,141	-15.3
Kentucky	w	w	w	w	w	w
Maryland	w	w	w	w	w	w
Michigan	w	w	w	w	w	w
New York	w	w	w	w	w	w
Ohio	888	884	984	3,717	3,595	3.4
Pennsylvania	2,736	2,329	2,643	9,761	8,912	9.5
Tennessee	w	w	w	w	w	w
Utah	w	w	w	w	w	w
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
By Plant Type						
Merchant Coke Plants	1,073	1,043	1,151	4,295	4,399	-2.4
Furnace Coke Plants	7,037	6,548	7,606	27,732	28,692	-3.3
U.S. Total	8,110	7,592	8,757	32,027	33,090	-3.2

* Withheld to avoid disclosure of individual company data.
Notes: Total may not equal sum of components because of independent rounding.
Source: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly."

Table 39. Average Price of Coal Receipts at Coke Plants
(Dollars per Short Ton)

Average Price ¹	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
By State						
Alabama	\$47.23	\$47.60	\$48.75	\$47.81	\$48.34	-1.1
Illinois	w	w	w	w	w	w
Indiana	\$53.41	\$53.14	\$53.91	\$53.72	\$53.31	.8
Kentucky	w	w	w	w	w	w
Maryland	w	w	w	w	w	w
Michigan	w	w	w	w	w	w
New York	w	w	w	w	w	w
Ohio	\$48.02	\$47.20	\$46.26	\$46.67	\$46.74	-1.1
Pennsylvania	47.35	46.54	47.49	46.49	46.86	-.8
Tennessee	w	w	w	w	w	w
Utah	w	w	w	w	w	w
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
By Plant Type						
Merchant Coke Plants	\$46.18	\$46.46	\$48.21	\$46.75	\$47.56	-1.7
Furnace Coke Plants	47.72	48.32	49.39	48.10	49.16	-2.2
U.S. Total	47.51	48.06	49.23	47.92	48.95	-2.1

¹ Based on the cost including insurance and freight (c.i.f. cost).

w Withheld to avoid disclosure of individual company data.

Notes: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly."

Table 40. Coal Receipts at Other Industrial Plants by Census Division and State
(Thousand Short Tons)

Census Division and State	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
New England Total	228	224	258	1,056	429	146.3
Connecticut	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	w	w	w	w	w	w
Rhode Island	w	w	w	w	w	w
Vermont	w	w	w	w	w	w
Middle Atlantic Total	w	w	w	w	w	w
New Jersey	w	w	w	w	w	w
New York	494	437	545	1,716	1,890	-9.2
Pennsylvania	1,220	1,057	1,216	4,197	3,915	7.2
East North Central Total	4,678	4,248	5,096	16,848	17,946	-6.1
Illinois	1,090	915	1,156	3,703	4,340	-14.7
Indiana	1,136	1,015	1,197	4,226	4,096	3.2
Michigan	1,001	915	1,001	3,117	2,992	4.2
Ohio	1,006	906	1,244	4,008	4,747	-15.6
Wisconsin	444	497	499	1,794	1,770	1.4
West North Central Total	3,470	3,261	3,108	12,347	10,802	14.3
Iowa	596	839	554	2,483	1,949	27.4
Kansas	67	45	45	159	132	20.9
Minnesota	380	288	309	1,052	662	58.9
Missouri	333	289	326	1,155	1,172	-1.5
Nebraska	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic Total	w	w	w	w	w	w
Delaware	w	w	w	w	w	w
District of Columbia	-	-	-	-	-	-
Florida	392	322	228	1,335	861	55.0
Georgia	420	441	504	1,758	2,018	-12.9
Maryland	186	174	177	705	1,042	-32.4
North Carolina	641	773	743	2,853	2,655	7.5
South Carolina	626	547	569	2,151	2,154	-.1
Virginia	771	828	1,303	3,661	4,199	-12.8
West Virginia	533	507	538	2,291	2,249	1.9
East South Central Total	w	w	w	w	w	w
Alabama	835	839	755	3,132	2,415	29.7
Kentucky	466	428	591	1,652	2,025	-18.4
Mississippi	w	w	w	w	w	w
Tennessee	989	872	938	3,728	3,509	6.2
West South Central Total	1,391	1,420	1,632	5,639	5,004	12.7
Arkansas	79	78	73	299	249	19.9
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	896	1,004	1,186	4,016	3,503	14.7
Mountain Total	1,252	1,183	1,282	4,748	4,721	.6
Arizona	154	181	162	630	702	-10.3
Colorado	224	153	234	744	722	3.0
Idaho	129	135	131	505	497	1.5
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	94	170	84	512	487	5.1
Wyoming	495	424	503	1,874	1,809	3.6
Pacific Total	803	747	754	3,146	3,072	2.4
Alaska	-	-	-	-	-	-
California	681	694	650	2,792	2,788	.1
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	37	30	45	149	161	-7.5
U.S. Total	19,552	18,435	20,377	73,607	71,495	3.0

* Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption-Manufacturing Plants", and Form EIA-6, "Coal Distribution Report."

**Table 41. Average Price of Coal Receipts at Other Industrial Plants
by Census Division and State**
(Dollars per Short Ton)

Census Division and State	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
New England Total	\$66.34	\$62.92	\$65.25	\$65.71	\$66.74	-1.5
Connecticut	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	w	w	w	w	w	w
Rhode Island	w	w	w	w	w	w
Vermont	w	w	w	w	w	w
Middle Atlantic Total	w	w	w	w	w	w
New Jersey	w	w	w	w	w	w
New York	\$42.85	\$44.27	\$42.36	\$43.74	\$43.79	-.1
Pennsylvania	35.32	34.76	36.17	35.68	35.89	-.6
East North Central Total	35.51	34.18	36.55	35.04	35.99	-2.6
Illinois	28.37	29.69	30.56	29.24	30.81	-5.1
Indiana	31.50	29.74	33.28	31.56	33.01	-4.4
Michigan	43.90	40.23	45.05	42.44	43.69	-2.9
Ohio	36.06	34.01	34.93	35.19	34.88	.9
Wisconsin	43.10	40.91	42.96	42.27	43.31	-2.4
West North Central Total	16.72	18.66	18.84	17.34	18.34	-5.4
Iowa	26.49	28.19	28.74	27.16	29.15	-6.8
Kansas	32.10	31.19	31.79	31.96	30.81	3.7
Minnesota	38.10	36.25	35.52	35.99	36.26	-.7
Missouri	31.29	30.79	31.29	31.62	31.28	1.1
Nebraska	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic Total	w	w	w	w	w	w
Delaware	w	w	w	w	w	w
District of Columbia	-	-	-	-	-	-
Florida	\$48.71	\$48.29	\$47.53	\$48.27	\$47.42	1.8
Georgia	45.16	45.48	44.60	45.16	44.95	.5
Maryland	35.52	32.33	32.86	32.83	33.71	-2.6
North Carolina	44.13	42.47	42.77	43.46	43.05	1.0
South Carolina	44.14	43.08	43.25	43.56	43.19	.9
Virginia	40.26	41.53	40.72	40.83	40.53	.8
West Virginia	30.97	32.95	31.84	31.93	32.08	-.5
East South Central Total	w	w	w	w	w	w
Alabama	\$39.56	\$39.50	\$40.15	\$39.57	\$40.43	-2.1
Kentucky	43.30	43.90	45.70	43.78	46.54	-5.9
Mississippi	w	w	w	w	w	w
Tennessee	\$35.78	\$35.37	\$35.48	\$35.51	\$35.66	-.4
West South Central Total	26.96	22.80	21.23	22.80	23.31	-2.2
Arkansas	45.94	42.85	44.88	44.62	45.09	-1.1
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	\$22.47	\$18.25	\$16.48	\$18.14	\$18.61	-2.5
Mountain Total	29.14	29.42	29.22	29.26	29.60	-1.1
Arizona	41.16	40.38	40.59	40.95	40.10	2.1
Colorado	29.89	30.44	29.47	30.34	29.27	3.7
Idaho	32.71	32.81	34.25	33.29	33.90	-1.8
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	\$23.99	\$25.20	\$23.31	\$25.35	\$26.43	-4.1
Wyoming	24.76	24.33	25.28	24.39	25.19	-3.2
Pacific Total	41.09	43.12	45.51	43.30	45.75	-5.4
Alaska	-	-	-	-	-	-
California	40.47	41.73	45.40	42.05	44.79	-6.1
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	\$53.21	\$56.69	\$63.12	\$56.01	\$59.16	-5.3
U.S. Total	33.19	32.42	33.26	32.82	33.54	-2.2

w Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding. Price data are for manufacturing plants only.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption-Manufacturing Plants".

Table 42. U.S. Coal Receipts at Manufacturing Plants by Standard Industrial Classification (SIC) Code
(Thousand Short Tons)

SIC Code	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
20 Food and kindred products	1,989	1,910	2,281	7,555	7,711	-2.0
21 Tobacco products	193	150	184	694	655	5.9
22 Textile mill products	383	253	337	1,219	1,188	2.6
23 Apparel, other textile products	12	6	9	37	32	17.2
24 Lumber and wood products	28	48	48	102	98	4.0
25 Furniture and fixtures	21	23	23	94	89	5.2
26 Paper and allied products	2,808	2,939	3,273	11,610	12,032	-3.5
27 Printing and publishing	w	w	w	w	w	w
28 Chemicals, allied products	3,351	3,023	3,424	13,088	13,861	-5.6
29 Petroleum and coal products ¹	2,037	1,865	1,808	7,675	7,005	9.6
30 Rubber, misc. plastic products	72	62	76	275	282	-2.4
31 Leather, leather products	4	3	7	21	28	-24.0
32 Stone, clay, glass products	3,232	3,310	3,128	11,871	12,233	-3.0
33 Primary metal industries ²	1,496	1,759	1,876	6,947	6,599	5.3
34 Fabricated metal products	135	46	109	364	319	14.0
35 Machinery, except electric	109	86	109	344	421	-18.2
36 Electric, electronic equipment	78	29	80	236	261	-9.5
37 Transportation equipment	389	203	388	1,293	1,368	-5.5
38 Instruments, related products	w	w	w	w	w	w
39 Misc. manufacturing industries	w	w	w	w	w	w
U.S. Total	16,560	15,940	17,391	64,398	65,124	-1.1

¹ Includes coal gasification projects.

² Excludes coke plants.

w Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

Table 43. Average Price of U.S. Coal Receipts at Manufacturing Plants by Standard Industrial Classification (SIC) Code
(Dollars per Short Ton)

SIC Code	October - December 1992	July - September 1992	October - December 1991	Percent Difference October - December: 1992 versus 1991
20 Food and kindred products	\$29.65	\$30.30	\$31.24	-5.1
21 Tobacco products	46.54	46.02	47.46	-1.9
22 Textile mill products	45.11	44.93	45.64	-1.2
23 Apparel, other textile products	w	w	w	w
24 Lumber and wood products	\$45.42	\$46.20	\$46.56	-2.4
25 Furniture and fixtures	46.91	48.95	46.06	1.8
26 Paper and allied products	42.28	41.01	40.80	3.6
27 Printing and publishing	w	w	w	w
28 Chemicals, allied products	\$35.35	\$35.47	\$35.86	-1.4
29 Petroleum and coal products ¹	11.78	11.76	11.34	3.9
30 Rubber, misc. plastic products	37.22	35.83	39.03	-4.6
31 Leather, leather products	43.15	44.34	45.57	-5.3
32 Stone, clay, glass products	35.42	34.65	35.59	-5
33 Primary metal industries ²	28.16	25.67	25.43	10.7
34 Fabricated metal products	49.15	46.54	51.65	-4.8
35 Machinery, except electric	34.55	35.89	32.28	7.0
36 Electric, electronic equipment	43.59	44.17	44.11	-1.2
37 Transportation equipment	w	w	w	w
38 Instruments, related products	w	w	w	w
39 Misc. manufacturing industries	w	w	w	w
U.S. Total	\$33.19	\$32.42	\$33.26	-2

¹ Includes coal gasification projects.

² Excludes coke plants.

w Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

**Table 44. Coal Receipts by the Residential and Commercial Sector
by Census Division and State**
(Thousand Short Tons)

Census Division and State	October-December 1992	July-September 1992	October-December 1991	Year to Date		
				1992	1991	Percent Change
New England Total	40	44	43	141	84	67.6
Connecticut	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	w	w	w	w	w	w
Rhode Island	w	w	w	w	w	w
Vermont	w	w	w	w	w	w
Middle Atlantic Total	495	407	572	1,916	1,698	12.8
New Jersey	w	w	w	w	w	w
New York	w	w	w	w	w	w
Pennsylvania	431	324	493	1,626	1,408	15.5
East North Central Total	456	325	467	1,476	1,453	1.6
Illinois	w	w	w	w	w	w
Indiana	155	64	120	411	433	-5.0
Michigan	w	w	w	w	w	w
Ohio	194	99	186	588	489	20.2
Wisconsin	w	w	w	w	w	w
West North Central Total	w	w	w	w	w	w
Iowa	.	20	15	64	223	-71.3
Kansas	.	.	.	.	.	NM
Minnesota	5	.	23	25	94	-73.7
Missouri	w	w	w	w	w	w
Nebraska	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic Total	250	114	148	632	490	28.9
Delaware	w	w	w	w	w	w
District of Columbia	13	6	17	50	66	-23.8
Florida	15	.	.	16	.	NM
Georgia	7	14	1	38	8	385.5
Maryland	w	w	w	w	w	w
North Carolina	104	35	22	204	97	109.1
South Carolina	16	7	5	31	22	38.1
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
East South Central Total	187	101	100	458	376	21.8
Alabama	28	19	3	89	17	432.7
Kentucky	w	w	w	w	w	w
Mississippi	w	w	w	w	w	w
Tennessee	w	w	w	w	w	w
West South Central Total	4	2	4	13	12	10.0
Arkansas	.	.	.	2	.	420.9
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	4	1	3	10	11	-7.7
Mountain Total	w	w	w	w	w	w
Arizona	2	1	.	4	.	NM
Colorado	24	10	23	58	65	-9.5
Idaho	21	10	25	51	68	-25.4
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	w	w	w	w	w	w
Wyoming	48	7	61	99	138	-28.1
Pacific Total	187	108	170	607	630	-3.7
Alaska	157	96	154	514	504	2.1
California	.	.	.	.	44	-99.6
Oregon	.	.	.	1	1	-45.5
Washington	29	12	16	91	80	13.7
U.S. Total	1,925	1,236	1,899	6,153	6,094	1.0

* Quantity is less than 500 short tons or percent is less than .05.

NM Not meaningful as value is greater than or equal to 500.

w Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-8, "Coal Distribution Report."

Consumption

More than 7 tons out of every 10 tons of coal produced annually are used to generate electricity. Coal-fired electric utilities, in turn, account for over half of the electricity generated annually.

Figure 10. Quarterly U.S. Coal Consumption, 1984-1992

Note: Each increment represents end-of-quarter data.
 Sources: Energy Information Administration (EIA), Electric Utilities: Form EIA-759, "Monthly Power Plant Report;" Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly;" Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants" and Form EIA-6, "Coal Distribution Report;" Residential and Commercial: Form EIA-6, "Coal Distribution Report."

Table 45. U.S. Coal Consumption by End-Use Sector 1984-1992
(Thousand Short Tons)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial	Residential and Commercial	Total
1984 January - March	167,016	11,226	19,088	2,612	199,942
April - June	154,043	11,844	17,999	1,931	185,817
July - September	177,799	10,816	17,275	2,223	208,113
October - December	165,541	10,136	19,383	2,363	197,424
Total	664,399	44,022	73,745	9,130	791,296
1985 January - March	173,919	10,256	19,235	2,074	205,484
April - June	163,132	10,913	17,894	1,589	193,529
July - September	184,108	10,218	17,938	1,673	213,937
October - December	172,682	9,670	20,305	2,443	205,099
Total	693,841	41,056	75,372	7,779	818,049
1986 January - March	172,982	10,305	20,715	2,231	206,233
April - June	158,426	10,206	18,366	1,675	188,673
July - September	186,266	7,704	17,199	1,503	212,671
October - December	167,382	7,709	19,303	2,259	196,654
Total	685,056	35,924	75,583	7,667	804,231
1987 January - March	170,777	7,831	19,106	1,809	199,523
April - June	171,418	9,344	17,610	1,254	199,627
July - September	200,070	9,707	18,006	1,613	229,397
October - December	175,629	10,075	20,453	2,238	208,394
Total	717,894	36,957	75,175	6,914	836,941
1988 January - March	188,009	10,357	20,416	2,004	220,787
April - June	176,007	10,536	17,786	1,406	205,735
July - September	208,542	10,483	17,923	1,725	238,672
October - December	185,814	10,512	20,127	1,994	218,448
Total	758,372	41,888	76,252	7,130	883,642
1989 January - March	191,556	10,208	19,885	1,837	223,486
April - June	178,306	10,365	18,211	1,143	208,025
July - September	203,123	10,008	17,631	1,264	232,026
October - December	193,903	9,927	20,408	1,924	226,163
Total	766,888	40,508	76,134	6,167	889,699
1990 January - March	185,438	10,044	19,612	1,920	217,014
April - June	182,537	9,795	18,069	1,265	211,666
July - September	211,658	9,476	18,244	1,443	240,821
October - December	193,915	9,562	20,405	2,096	225,978
Total	773,549	38,877	76,330	6,724	895,480
1991 January - March	189,291	8,291	19,618	2,008	219,208
April - June	182,488	8,075	17,139	1,055	208,757
July - September	208,133	8,777	18,051	1,132	236,093
October - December	192,356	8,711	20,596	1,899	223,562
Total	772,268	33,854	75,405	6,094	887,621
1992 January - March	190,916	8,340	19,184	1,843	220,283
April - June	183,883	8,097	17,299	1,149	210,428
July - September	210,269	8,200	17,802	1,236	237,508
October - December	194,761	7,729	19,917	1,925	224,333
Total	779,830	32,366	74,203	6,153	892,552

Notes: Total may not equal sum of components because of independent rounding.

Sources: Energy Information Administration (EIA) • Electric Utilities: Form EIA-759, "Monthly Power Plant Report" • Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly" • Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants" and Form EIA-6, "Coal Distribution Report" • Residential and Commercial: Form EIA-6, "Coal Distribution Report."

Table 46. Coal Consumption by Census Division and State
(Thousand Short Tons)

Census Division and State	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
New England Total	1,867	1,778	1,951	7,298	7,012	4.1
Connecticut	209	179	191	849	856	-.9
Maine	206	190	183	856	374	129.2
Massachusetts	1,100	1,054	1,221	4,257	4,451	-4.4
New Hampshire	345	347	351	1,311	1,315	-.3
Rhode Island	2	1	2	5	4	17.3
Vermont	4	6	2	20	12	63.6
Middle Atlantic Total	17,445	17,845	17,841	71,493	70,594	1.3
New Jersey	735	406	735	2,348	2,326	1.0
New York	3,034	3,272	3,487	13,000	13,338	-2.5
Pennsylvania	13,676	14,168	13,419	56,144	54,931	2.2
East North Central Total	50,573	50,960	51,943	200,883	208,583	-3.7
Illinois	7,895	7,239	8,585	31,776	34,677	-8.4
Indiana	15,011	15,121	15,292	58,767	60,790	-3.3
Michigan	8,150	8,236	8,116	31,570	33,879	-6.8
Ohio	14,224	15,439	14,808	58,699	58,578	.2
Wisconsin	5,293	4,927	5,144	20,072	20,659	-2.8
West North Central Total	30,152	29,342	29,942	115,367	116,707	-1.1
Iowa	4,312	4,563	4,834	17,844	18,741	-4.8
Kansas	3,584	3,730	4,200	14,227	14,881	-4.4
Minnesota	4,788	3,984	4,376	16,851	16,993	-.8
Missouri	6,536	7,014	6,022	25,221	25,773	-2.1
Nebraska	2,004	2,124	2,212	8,237	8,659	-7.0
North Dakota	8,120	7,353	7,553	30,319	28,597	6.0
South Dakota	798	574	744	2,670	2,863	-6.8
South Atlantic Total	34,734	41,195	34,942	144,292	144,073	.2
Delaware	462	551	504	1,854	2,186	-15.2
District of Columbia	13	6	17	50	66	-23.8
Florida	6,261	7,776	6,321	26,368	26,004	1.4
Georgia	6,047	7,828	6,094	25,485	26,957	-5.5
Maryland	2,347	2,685	2,388	9,733	10,709	-9.1
North Carolina	5,620	7,854	5,386	24,080	20,877	15.3
South Carolina	2,602	3,444	3,033	11,307	11,451	-1.3
Virginia	3,025	3,385	3,629	13,397	13,980	-4.2
West Virginia	8,357	7,665	7,572	32,019	31,843	.6
East South Central Total	22,762	25,818	22,947	93,804	90,785	3.3
Alabama	7,780	9,156	7,551	31,513	29,349	7.4
Kentucky	9,000	9,188	8,592	34,704	34,517	.5
Mississippi	621	1,117	850	3,486	3,812	-8.6
Tennessee	5,362	6,357	5,485	24,102	23,107	4.3
West South Central Total	33,997	38,017	32,221	135,145	133,635	1.1
Arkansas	3,538	3,280	2,753	12,622	12,261	2.9
Louisiana	3,411	3,829	3,191	13,622	12,965	5.1
Oklahoma	4,691	4,946	4,060	17,430	16,345	6.6
Texas	22,357	25,962	22,218	91,471	92,064	-.6
Mountain Total	29,575	29,514	28,876	112,429	105,177	6.9
Arizona	4,846	4,883	4,812	17,862	16,805	6.3
Colorado	4,225	4,207	4,156	16,696	16,218	2.9
Idaho	217	64	246	535	673	-20.5
Montana	3,045	2,997	3,058	11,040	10,549	4.7
Nevada	1,904	2,434	2,106	8,662	8,091	7.1
New Mexico	3,981	4,026	3,868	14,832	12,858	15.4
Utah	4,153	4,043	3,916	15,729	14,834	6.0
Wyoming	7,204	6,861	6,713	27,074	25,150	7.7
Pacific Total	3,228	3,039	3,568	11,841	11,055	7.1
Alaska	238	149	241	782	802	-2.6
California	681	721	687	2,821	2,816	.2
Hawaii	14	17	9	47	37	26.7
Oregon	526	440	744	1,758	1,940	-9.4
Washington	1,768	1,713	1,887	6,433	5,461	17.8
U.S. Total	224,333	237,508	223,562	892,552	887,621	.6

Note: Total may not equal sum of components because of independent rounding.

Sources: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report"; Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; and Form EIA-6, "Coal Distribution Report."

Table 47. Coal Consumption at Electric Utility Plants by Census Division and State
(Thousand Short Tons)

Census Division and State	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
New England Total	1,599	1,512	1,641	6,112	6,421	-4.8
Connecticut	196	176	180	817	840	-2.7
Maine	-	-	-	-	-	-
Massachusetts	1,063	1,008	1,169	4,044	4,339	-6.8
New Hampshire	340	327	292	1,251	1,242	.7
Rhode Island	-	-	-	-	-	-
Vermont	-	-	-	-	-	-
Middle Atlantic Total	12,333	13,189	12,423	52,488	52,617	-.2
New Jersey	681	362	674	2,118	2,081	1.8
New York	2,316	2,542	2,614	9,963	9,874	.9
Pennsylvania	9,336	10,285	9,135	40,407	40,662	-.6
East North Central Total	42,722	43,374	42,825	169,091	173,718	-2.7
Illinois	6,103	5,689	6,810	25,338	27,754	-8.7
Indiana	12,380	12,235	11,877	46,943	47,720	-1.6
Michigan	7,220	7,474	7,067	28,222	29,896	-5.6
Ohio	12,177	13,484	12,420	50,358	49,577	1.6
Wisconsin	4,842	4,493	4,652	18,231	18,771	-2.9
West North Central Total	26,405	26,292	26,685	102,313	104,246	-1.9
Iowa	3,634	3,904	4,184	15,209	15,846	-4.0
Kansas	3,526	3,689	4,154	14,068	14,732	-4.5
Minnesota	4,382	3,718	4,035	15,747	16,114	-2.3
Missouri	6,148	6,708	5,666	23,815	24,286	-1.9
Nebraska	1,833	2,068	2,064	7,879	8,524	-7.6
North Dakota	6,174	5,706	5,921	23,192	22,174	4.6
South Dakota	708	500	662	2,402	2,570	-6.5
South Atlantic Total	30,247	36,768	29,720	126,162	123,729	2.0
Delaware	428	527	441	1,712	1,958	-12.6
District of Columbia	-	-	-	-	-	-
Florida	5,864	7,420	6,031	25,016	24,870	.6
Georgia	5,597	7,378	5,589	23,656	24,848	-4.8
Maryland	2,158	2,503	2,002	9,001	8,632	4.3
North Carolina	4,872	7,046	4,653	21,011	18,078	16.2
South Carolina	1,976	2,902	2,443	9,078	9,218	-1.5
Virginia	1,985	2,262	2,009	8,639	8,568	.8
West Virginia	7,367	6,730	6,552	28,050	27,557	1.8
East South Central Total	19,123	22,382	18,974	80,203	77,917	2.9
Alabama	6,105	7,449	5,973	24,988	23,700	5.4
Kentucky	8,161	8,426	7,723	31,715	31,432	.9
Mississippi	547	1,047	787	3,237	3,570	-9.3
Tennessee	4,310	5,460	4,491	20,263	19,216	5.5
West South Central Total	32,355	36,514	30,550	129,285	127,908	1.1
Arkansas	3,460	3,206	2,678	12,325	11,978	2.9
Louisiana	3,231	3,701	3,033	13,025	12,406	5.0
Oklahoma	4,467	4,748	3,868	16,699	15,668	6.6
Texas	21,198	24,859	20,972	87,236	87,856	-.7
Mountain Total	27,781	28,076	26,964	106,133	98,400	7.9
Arizona	4,685	4,707	4,647	17,227	16,116	6.9
Colorado	3,987	4,005	3,904	15,902	15,416	3.2
Idaho	-	-	-	-	-	-
Montana	2,940	2,947	2,923	10,768	10,223	5.3
Nevada	1,870	2,387	2,063	8,490	7,892	7.6
New Mexico	3,965	4,013	3,853	14,775	12,809	15.3
Utah	3,690	3,576	3,445	13,857	12,829	8.0
Wyoming	6,644	6,441	6,129	25,114	23,115	8.6
Pacific Total	2,197	2,161	2,573	8,042	7,313	10.0
Alaska	81	53	87	267	298	-10.4
California	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Oregon	446	438	673	1,627	1,831	-11.1
Washington	1,669	1,670	1,813	6,148	5,184	18.6
U.S. Total	194,761	210,269	192,356	779,830	772,266	1.0

Note: Total may not equal sum of components because of independent rounding.
Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

Table 48. Coal Carbonized at Coke Plants by Census Division and State
(Thousand Short Tons)

Census Division and State	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
New England Total	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-
Maine	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-
Vermont	-	-	-	-	-	-
Middle Atlantic Total	w	w	w	w	w	w
New Jersey	-	-	-	-	-	-
New York	w	w	w	w	w	w
Pennsylvania	2,617	2,519	2,574	9,868	8,812	12.0
East North Central Total	2,791	3,352	3,646	13,224	14,742	-10.3
Illinois	w	w	w	w	w	w
Indiana	1,344	1,822	2,091	7,153	8,234	-13.1
Michigan	w	w	w	w	w	w
Ohio	864	966	953	3,755	3,698	1.5
Wisconsin	-	-	-	-	-	-
West North Central Total	-	-	-	-	-	-
Iowa	-	-	-	-	-	-
Kansas	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-
Missouri	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-
South Atlantic Total	w	w	w	w	w	w
Delaware	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-
Florida	-	-	-	-	-	-
Georgia	-	-	-	-	-	-
Maryland	w	w	w	w	w	w
North Carolina	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
East South Central Total	w	w	w	w	w	w
Alabama	808	824	801	3,297	3,166	4.1
Kentucky	w	w	w	w	w	w
Mississippi	-	-	-	-	-	-
Tennessee	w	w	w	w	w	w
West South Central Total	-	-	-	-	-	.0
Arkansas	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-
Texas	-	-	-	-	-	.0
Mountain Total	w	w	w	w	w	w
Arizona	-	-	-	-	-	-
Colorado	-	-	-	-	-	-
Idaho	-	-	-	-	-	-
Montana	-	-	-	-	-	-
Nevada	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-
Utah	w	w	w	w	w	w
Wyoming	-	-	-	-	-	-
Pacific Total	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
California	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Oregon	-	-	-	-	-	-
Washington	-	-	-	-	-	-
By Plant Type						
Merchant Coke Plants	1,073	1,080	1,106	4,316	4,482	-3.7
Furnace Coke Plants	6,657	7,121	7,605	28,050	29,371	-4.5
U.S. Total	7,729	8,200	8,711	32,366	33,854	-4.4

w Withheld to avoid disclosure of individual company data.

Notes: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly."

Table 49. Coal Consumption at Other Industrial Plants by Census Division and State
(Thousand Short Tons)

Census Division and State	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
New England Total	228	222	267	1,045	507	106.3
Connecticut	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	w	w	w	w	w	w
Rhode Island	w	w	w	w	w	w
Vermont	w	w	w	w	w	w
Middle Atlantic Total	w	w	w	w	w	w
New Jersey	w	w	w	w	w	w
New York	395	377	487	1,614	1,959	-17.6
Pennsylvania	1,292	1,039	1,217	4,243	4,049	4.8
East North Central Total	4,604	3,910	5,004	17,092	18,670	-8.5
Illinois	1,130	901	1,113	3,839	4,426	-13.3
Indiana	1,133	999	1,203	4,260	4,404	-3.3
Michigan	905	685	948	3,158	3,149	.3
Ohio	989	890	1,249	3,998	4,813	-16.9
Wisconsin	448	434	491	1,837	1,878	-2.2
West North Central Total	3,626	2,964	3,100	12,610	11,741	7.4
Iowa	678	639	636	2,571	2,672	-3.8
Kansas	68	41	46	158	148	6.5
Minnesota	401	266	318	1,079	785	37.5
Missouri	328	254	295	1,178	1,235	-4.6
Nebraska	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic Total	w	w	w	w	w	w
Delaware	w	w	w	w	w	w
District of Columbia	-	-	-	-	-	-
Florida	382	356	290	1,335	1,133	17.8
Georgia	442	437	504	1,791	2,101	-14.8
Maryland	186	178	173	718	1,040	-30.9
North Carolina	645	773	711	2,865	2,702	6.1
South Carolina	610	535	585	2,199	2,212	-.6
Virginia	737	839	1,331	3,594	4,301	-16.4
West Virginia	523	498	567	2,266	2,310	-1.9
East South Central Total	w	w	w	w	w	w
Alabama	839	864	775	3,139	2,468	27.2
Kentucky	463	431	580	1,648	2,044	-19.4
Mississippi	w	w	w	w	w	w
Tennessee	973	870	960	3,682	3,702	-.5
West South Central Total	1,637	1,501	w	5,846	5,716	2.3
Arkansas	78	74	74	295	283	4.3
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	1,155	1,102	1,243	4,225	4,198	.7
Mountain Total	1,333	1,107	1,383	4,716	4,954	-4.8
Arizona	159	175	164	632	689	-8.3
Colorado	213	192	229	735	738	-.4
Idaho	196	54	221	484	604	-20.0
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	106	165	80	535	508	5.3
Wyoming	512	413	523	1,861	1,896	-1.8
Pacific Total	845	770	825	3,192	3,113	2.6
Alaska	-	w	-	w	-	-
California	681	721	686	2,821	2,771	1.8
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	70	31	59	194	197	-1.2
U.S. Total	19,917	17,802	20,596	74,203	75,405	-1.6

* Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; and Form EIA-6, "Coal Distribution Report."

Table 50. U.S. Coal Consumption at Manufacturing Plants by Standard Industrial Classification (SIC) Code
(Thousand Short Tons)

SIC Code	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
20 Food and kindred products	2,106	1,692	2,425	7,595	7,877	-3.6
21 Tobacco products	178	156	174	682	686	-.6
22 Textile mill products	333	251	328	1,211	1,204	.5
23 Apparel, other textile products	12	6	8	38	32	19.9
24 Lumber and wood products	26	24	24	106	100	5.7
25 Furniture and fixtures	30	16	31	100	95	5.0
26 Paper and allied products	2,805	2,819	3,203	11,625	12,176	-4.5
27 Printing and publishing	w	w	w	w	w	w
28 Chemicals, allied products	3,314	2,899	3,608	12,982	14,133	-8.1
29 Petroleum and coal products ¹	2,027	1,855	1,721	7,670	6,941	10.5
30 Rubber, misc. plastic products	71	59	75	273	280	-2.3
31 Leather, leather products	4	3	7	21	27	-21.8
32 Stone, clay, glass products	3,043	3,182	3,106	11,841	12,303	-3.8
33 Primary metal industries ²	1,760	1,785	1,811	7,018	7,183	-2.3
34 Fabricated metal products	95	46	108	358	365	-2.0
35 Machinery, except electric	137	39	126	377	435	-13.3
36 Electric, electronic equipment	74	28	73	241	257	-6.4
37 Transportation equipment	358	187	438	1,321	1,496	-11.7
38 Instruments, related products	w	w	w	w	w	w
39 Misc. manufacturing industries	w	w	w	w	w	w
U.S. Total	16,605	15,257	17,512	64,362	66,549	-3.3

¹ Includes coal gasification projects.

² Excludes coke plants.

w Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

Table 51. Coal Consumption by Residential and Commercial Sector by Census Division and State
(Thousand Short Tons)

Census Division and State	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
New England Total	40	44	43	141	84	67.6
Connecticut	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	w	w	w	w	w	w
Rhode Island	w	w	w	w	w	w
Vermont	w	w	w	w	w	w
Middle Atlantic Total	495	407	572	1,916	1,698	12.8
New Jersey	w	w	w	w	w	w
New York	w	w	w	w	w	w
Pennsylvania	431	324	493	1,626	1,408	15.5
East North Central Total	456	325	467	1,476	1,453	1.6
Illinois	w	w	w	w	w	w
Indiana	155	64	120	411	433	-5.0
Michigan	w	w	w	w	w	w
Ohio	194	99	186	588	489	20.2
Wisconsin	w	w	w	w	w	w
West North Central Total	w	w	w	w	w	w
Iowa	*	20	15	64	223	-71.3
Kansas	*	*	*	*	*	-49.4
Minnesota	5	*	23	25	94	-73.7
Missouri	w	w	w	w	w	w
Nebraska	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic Total	250	114	148	632	490	28.9
Delaware	w	w	w	w	w	w
District of Columbia	13	6	17	50	66	-23.8
Florida	15	*	*	16	*	NM
Georgia	7	14	1	38	8	385.5
Maryland	w	w	w	w	w	w
North Carolina	104	35	22	204	97	109.1
South Carolina	16	7	5	31	22	38.1
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
East South Central Total	187	101	100	458	376	21.8
Alabama	28	19	3	89	17	432.7
Kentucky	w	w	w	w	w	w
Mississippi	w	w	w	w	w	w
Tennessee	w	w	w	w	w	w
West South Central Total	4	2	4	13	12	10.0
Arkansas	*	*	*	2	*	420.9
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	*	w	w	w
Texas	4	1	3	10	11	-7.7
Mountain Total	w	w	w	w	w	w
Arizona	2	1	*	4	*	NM
Colorado	24	10	23	58	65	-9.5
Idaho	21	10	25	51	68	-25.4
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	w	w	w	w	w	w
Wyoming	48	7	61	99	138	-28.1
Pacific Total	187	108	170	607	630	-3.7
Alaska	157	96	154	514	504	2.1
California	*	-	*	*	44	-99.6
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	29	12	16	91	80	13.7
U.S. Total	1,925	1,236	1,899	6,153	6,094	1.0

* Rounded to zero.

NM Percent change calculation not meaningful as value is greater than 500.

w Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Stocks

Large quantities of coal produced by many mines are collected and stockpiled in an orderly fashion at storage facilities, such as the Massey Coal Terminal, in Newport News, Virginia.

Figure 11. Quarterly U.S. Coal Stocks, 1984-1992

Note: Each increment represents end-of-quarter data.
 Sources: Energy Information Administration (EIA). Electric Utilities: Form EIA-759, "Monthly Power Plant Report;" Coke Plants: Form EIA-6, "Coke Plant Report - Quarterly;" Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants;" Producer and Distributor: Form EIA-6, "Coal Distribution Report."

Table 52. U.S. Coal Stocks, 1984-1992
(Thousand Short Tons)

Last Day of Quarter	Coal Consumers ¹				Coal Producers and Distributors	Total
	Electric Utilities	Coke Plants	Other Industrial ²	Total		
1984 March 31	159,775	6,149	8,359	174,283	34,265	208,548
June 30	174,155	9,217	10,693	194,065	30,841	224,905
September 30	183,151	10,541	14,327	208,019	29,701	237,720
December 31	179,727	6,166	11,317	197,211	34,090	231,300
1985 March 31	166,355	4,415	8,684	179,454	35,371	214,825
June 30	174,545	4,587	8,881	188,013	35,197	223,210
September 30	163,065	3,338	9,791	176,195	32,632	208,827
December 31	156,376	3,420	10,438	170,234	33,133	203,367
1986 March 31	154,415	3,067	8,916	166,398	38,024	204,422
June 30	162,909	3,537	9,572	176,018	38,148	214,166
September 30	151,945	2,866	10,074	164,885	33,804	198,689
December 31	161,806	2,992	10,429	175,226	32,093	207,319
1987 March 31	161,648	2,675	8,850	173,173	36,560	209,733
June 30	163,361	3,735	8,941	176,037	33,939	209,976
September 30	151,961	3,340	10,297	165,598	28,775	194,373
December 31	170,797	3,884	10,777	185,459	28,321	213,780
1988 March 31	162,603	4,057	8,619	175,279	36,764	212,044
June 30	161,215	3,763	8,331	173,308	36,079	209,386
September 30	142,830	2,877	8,624	154,331	31,360	185,691
December 31	146,507	3,137	8,768	158,413	30,418	188,831
1989 March 31	139,036	3,518	6,683	149,238	35,508	184,745
June 30	148,981	3,361	6,671	159,013	30,598	189,612
September 30	135,640	3,707	7,818	147,165	28,848	176,013
December 31	135,860	2,864	7,363	146,087	29,000	175,087
1990 March 31	150,118	3,680	6,984	160,782	35,099	195,881
June 30	161,908	3,739	7,413	173,061	36,895	209,956
September 30	149,913	3,124	8,603	161,639	33,659	195,298
December 31	156,166	3,329	8,716	168,210	33,418	201,629
1991 March 31	161,084	3,130	7,271	171,485	42,162	213,647
June 30	163,459	3,283	6,921	173,663	41,054	214,716
September 30	153,907	2,695	7,258	163,860	33,628	197,488
December 31	157,876	2,773	7,061	167,711	32,971	200,682
1992 March 31	160,028	2,875	5,717	168,621	39,853	208,474
June 30	164,115	2,776	6,229	173,120	40,513	213,633
September 30	151,895	2,215	6,879	160,989	35,198	196,187
December 31	153,846	2,597	6,524	162,968	33,993	196,961

¹ Stock data for the Residential and Commercial sector are not included. See Technical Note 7 in Appendix C.

² Manufacturing plants only.

Notes: Total may not equal sum of components because of independent rounding.

Sources: Energy Information Administration (EIA) • Electric Utilities: Form EIA-759, "Monthly Power Plant Report" • Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly" • Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants" and • Producer and Distributor: Form EIA-6, "Coal Distribution Report."

**Table 53. Consumer Coal Stocks by Census Division and State,
December 31, 1992**
(Thousand Short Tons)

Census Division and State	Electric Utilities	Coke Plants	Other Industrial ¹	Total
New England Total	1,237	-	16	1,253
Connecticut	150	-	w	w
Maine	-	-	w	w
Massachusetts	727	-	w	w
New Hampshire	361	-	w	w
Rhode Island	-	-	w	w
Vermont	-	-	w	w
Middle Atlantic Total	17,743	w	w	19,420
New Jersey	771	-	w	w
New York	2,106	w	405	w
Pennsylvania	14,866	804	236	15,906
East North Central Total	40,250	906	2,339	43,495
Illinois	7,399	w	286	w
Indiana	11,294	481	731	12,506
Michigan	7,402	w	850	w
Ohio	10,395	180	200	10,775
Wisconsin	3,760	-	272	4,033
West North Central Total	19,593	-	915	20,508
Iowa	4,349	-	556	4,905
Kansas	2,747	-	11	2,759
Minnesota	2,175	-	56	2,232
Missouri	6,045	-	187	6,231
Nebraska	1,798	-	w	w
North Dakota	2,194	-	w	w
South Dakota	285	-	w	w
South Atlantic Total	27,977	w	w	29,240
Delaware	361	-	w	w
District of Columbia	-	-	-	-
Florida	4,021	-	100	4,121
Georgia	4,692	-	142	4,834
Maryland	2,400	w	33	w
North Carolina	4,512	-	203	4,715
South Carolina	2,206	-	208	2,414
Virginia	1,922	w	274	w
West Virginia	7,863	w	156	w
East South Central Total	13,401	w	w	14,391
Alabama	4,071	332	124	4,526
Kentucky	5,415	w	127	w
Mississippi	899	-	w	w
Tennessee	3,016	-	267	3,284
West South Central Total	16,627	21	395	17,042
Arkansas	1,572	-	19	1,591
Louisiana	1,701	-	54	1,755
Oklahoma	3,066	-	94	3,161
Texas	10,287	21	228	10,536
Mountain Total	16,009	w	344	w
Arizona	3,543	-	53	3,596
Colorado	3,410	-	29	3,439
Idaho	-	-	101	101
Montana	735	-	w	w
Nevada	1,447	-	w	w
New Mexico	1,570	-	w	w
Utah	3,153	w	15	w
Wyoming	2,153	-	80	2,233
Pacific Total	1,008	-	176	1,185
Alaska	6	-	-	6
California	-	-	109	109
Hawaii	-	-	w	w
Oregon	306	-	w	w
Washington	697	-	4	701
U.S. Total	153,846	2,597	6,524	162,968

¹ Manufacturing plants only.

w Withheld to avoid disclosure of individual company data.

Notes: Total may not equal sum of components because of independent rounding. Stock data for the Residential and Commercial sector are not available. See Technical Note 7 in Appendix C.

Sources: Energy Information Administration • Electric Utilities: Form EIA-759, "Monthly Power Plant Report" • Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly" and • Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

Table 54. Coal Stocks at Electric Utility Plants by Census Division and State
(Thousand Short Tons)

Census Division and State	December 31, 1992	September 30, 1992	December 31, 1991	Percent Difference December 31: 1992 versus 1991
New England Total	1,237	1,275	1,128	9.7
Connecticut	150	169	173	-13.3
Maine	-	-	-	-
Massachusetts	727	721	583	24.7
New Hampshire	361	385	373	-3.3
Rhode Island	-	-	-	-
Vermont	-	-	-	-
Middle Atlantic Total	17,743	16,678	16,638	6.6
New Jersey	771	785	681	13.3
New York	2,106	1,617	1,546	36.3
Pennsylvania	14,866	14,276	14,412	3.2
East North Central Total	40,250	42,107	39,394	2.2
Illinois	7,399	7,343	6,977	6.0
Indiana	11,294	12,443	9,953	13.5
Michigan	7,402	7,871	8,099	-8.6
Ohio	10,395	10,090	10,213	1.8
Wisconsin	3,760	4,360	4,151	-9.4
West North Central Total	19,593	20,533	20,169	-2.9
Iowa	4,349	4,751	4,499	-3.3
Kansas	2,747	3,227	3,310	-17.0
Minnesota	2,175	2,022	2,616	-16.8
Missouri	6,045	6,243	5,458	10.8
Nebraska	1,798	1,808	1,976	-9.0
North Dakota	2,194	2,207	1,999	9.7
South Dakota	285	275	312	-8.6
South Atlantic Total	27,977	24,815	28,746	-2.7
Delaware	361	294	458	-21.0
District of Columbia	-	-	-	-
Florida	4,021	4,123	4,781	-15.9
Georgia	4,692	3,395	5,251	-10.7
Maryland	2,400	2,313	2,220	8.1
North Carolina	4,512	3,164	4,657	-3.1
South Carolina	2,206	1,737	1,988	11.0
Virginia	1,922	1,611	1,685	14.1
West Virginia	7,863	8,178	7,707	2.0
East South Central Total	13,401	11,365	14,210	-5.7
Alabama	4,071	3,539	4,247	-4.2
Kentucky	5,415	4,610	5,881	-7.9
Mississippi	899	799	933	-3.6
Tennessee	3,016	2,416	3,148	-4.2
West South Central Total	16,627	16,816	17,694	-6.0
Arkansas	1,572	1,843	2,150	-26.9
Louisiana	1,701	2,174	2,235	-23.9
Oklahoma	3,066	2,834	2,835	8.2
Texas	10,287	9,965	10,474	-1.8
Mountain Total	16,009	17,038	18,086	-11.5
Arizona	3,543	4,083	4,177	-15.2
Colorado	3,410	3,475	3,466	-1.6
Idaho	-	-	-	-
Montana	735	784	741	-8
Nevada	1,447	1,453	1,412	2.5
New Mexico	1,570	1,345	1,399	12.2
Utah	3,153	3,471	4,123	-23.5
Wyoming	2,153	2,425	2,767	-22.2
Pacific Total	1,008	1,268	1,812	-44.4
Alaska	6	7	8	-26.6
California	-	-	-	-
Hawaii	-	-	-	-
Oregon	306	483	660	-53.7
Washington	697	777	1,145	-39.1
U.S. Total	153,846	151,895	157,876	-2.6

Note: Total may not equal sum of components because of independent rounding.
Source: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report."

Table 55. Coal Stocks at Coke Plants by Census Division and State
(Thousand Short Tons)

Census Division and State	December 31, 1992	September 30, 1992	December 31, 1991	Percent Difference December 31: 1992 versus 1991
New England Total	-	-	-	-
Connecticut	-	-	-	-
Maine	-	-	-	-
Massachusetts	-	-	-	-
New Hampshire	-	-	-	-
Rhode Island	-	-	-	-
Vermont	-	-	-	-
Middle Atlantic Total	w	w	w	w
New Jersey	-	-	-	-
New York	w	w	w	w
Pennsylvania	804	702	852	-5.7
East North Central Total	906	835	1,203	-24.7
Illinois	w	w	w	w
Indiana	481	433	669	-28.1
Michigan	w	w	w	w
Ohio	180	157	215	-16.2
Wisconsin	-	-	-	-
West North Central Total	-	-	-	-
Iowa	-	-	-	-
Kansas	-	-	-	-
Minnesota	-	-	-	-
Missouri	-	-	-	-
Nebraska	-	-	-	-
North Dakota	-	-	-	-
South Dakota	-	-	-	-
South Atlantic Total	w	w	w	w
Delaware	-	-	-	-
District of Columbia	-	-	-	-
Florida	-	-	-	-
Georgia	-	-	-	-
Maryland	w	w	w	w
North Carolina	-	-	-	-
South Carolina	-	-	-	-
Virginia	w	w	w	w
West Virginia	w	w	w	w
East South Central Total	w	w	w	w
Alabama	332	331	293	13.1
Kentucky	w	w	w	w
Mississippi	-	-	-	-
Tennessee	w	w	w	w
West South Central Total	21	21	21	.0
Arkansas	-	-	-	-
Louisiana	-	-	-	-
Oklahoma	-	-	-	-
Texas	21	21	21	.0
Mountain Total	w	w	w	w
Arizona	-	-	-	-
Colorado	-	-	-	-
Idaho	-	-	-	-
Montana	-	-	-	-
Nevada	-	-	-	-
New Mexico	-	-	-	-
Utah	w	w	w	w
Wyoming	-	-	-	-
Pacific Total	-	-	-	-
Alaska	-	-	-	-
California	-	-	-	-
Hawaii	-	-	-	-
Oregon	-	-	-	-
Washington	-	-	-	-
By Plant Type				
Merchant Coke Plants	298	293	350	-15.0
Furnace Coke Plants	2,300	1,922	2,423	-5.1
U.S. Total	2,597	2,215	2,773	-6.3

* Withheld to avoid disclosure of individual company data.

Notes: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly."

Table 56. Coal Stocks at Other Industrial Plants by Census Division and State
(Thousand Short Tons)

Census Division and State	December 31, 1992	September 30, 1992	December 31, 1991	Percent Difference December 31: 1992 versus 1991
New England Total	16	16	6	178.2
Connecticut	w	w	w	w
Maine	w	w	w	w
Massachusetts	w	w	w	w
New Hampshire	w	w	w	w
Rhode Island	w	w	w	w
Vermont	w	w	w	w
Middle Atlantic Total	w	w	w	w
New Jersey	w	w	w	w
New York	405	306	296	37.1
Pennsylvania	236	309	282	-16.4
East North Central Total	2,339	2,264	2,583	-9.4
Illinois	286	326	422	-32.3
Indiana	731	726	764	-4.4
Michigan	850	753	891	-4.6
Ohio	200	182	190	5.4
Wisconsin	272	276	315	-13.6
West North Central Total	915	1,070	1,163	-21.3
Iowa	556	638	635	-12.3
Kansas	11	13	10	12.9
Minnesota	56	77	78	-27.8
Missouri	187	182	210	-11.0
Nebraska	w	w	w	w
North Dakota	w	w	w	w
South Dakota	w	w	w	w
South Atlantic Total	w	w	w	w
Delaware	w	w	w	w
District of Columbia	-	-	-	-
Florida	100	90	99	.9
Georgia	142	164	167	-15.2
Maryland	33	34	37	-9.2
North Carolina	203	200	209	-3.0
South Carolina	208	192	253	-17.7
Virginia	274	241	206	32.7
West Virginia	156	146	131	19.3
East South Central Total	w	w	w	w
Alabama	124	128	131	-5.4
Kentucky	127	124	123	3.0
Mississippi	w	w	w	w
Tennessee	267	251	219	22.2
West South Central Total	395	642	603	-34.5
Arkansas	19	18	15	26.1
Louisiana	w	w	w	w
Oklahoma	w	w	w	w
Texas	228	486	437	-47.9
Mountain Total	344	421	307	11.8
Arizona	53	55	52	2.3
Colorado	29	18	21	41.4
Idaho	101	169	79	28.8
Montana	w	w	w	w
Nevada	w	w	w	w
New Mexico	w	w	w	w
Utah	15	28	39	-60.0
Wyoming	80	97	68	18.7
Pacific Total	176	218	222	-20.7
Alaska	-	-	-	-
California	109	109	139	-21.2
Hawaii	w	w	w	w
Oregon	w	w	w	w
Washington	4	36	49	-92.8
U.S. Total	6,524	6,879	7,061	-7.6

* Withheld to avoid disclosure of individual company data.

Notes: Total may not equal sum of components because of independent rounding. Other industrial plants include manufacturing plants only.

Source: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

Table 57. U.S. Coal Stocks at Manufacturing Plants by Standard Industrial Classification (SIC) Code
(Thousand Short Tons)

SIC Code	December 31, 1992	September 30, 1992	December 31, 1991	Percent Difference December 31: 1992 versus 1991
20 Food and kindred products	699	867	787	-11.1
21 Tobacco products	79	62	67	19.0
22 Textile mill products	137	104	127	7.5
23 Apparel, other textile products	2	2	3	-37.8
24 Lumber and wood products	32	30	35	-10.5
25 Furniture and fixtures	20	29	28	-26.7
26 Paper and allied products	1,041	1,092	1,160	-10.3
27 Printing and publishing	w	w	w	w
28 Chemicals, allied products	1,202	1,164	1,073	12.0
29 Petroleum and coal products ¹	136	153	216	-37.2
30 Rubber, misc. plastic products	15	15	13	17.0
31 Leather, leather products	1	.	.	53.7
32 Stone, clay, glass products	1,701	1,664	1,843	-7.7
33 Primary metal industries ²	811	1,090	1,065	-23.9
34 Fabricated metal products	104	64	97	6.8
35 Machinery, except electric	123	149	143	-13.9
36 Electric, electronic equipment	18	14	27	-31.3
37 Transportation equipment	229	213	273	-16.3
38 Instruments, related products	w	w	w	w
39 Misc. manufacturing industries	w	w	w	w
U.S. Total	6,524	6,879	7,061	-7.6

¹ Includes coal gasification projects.

² Excludes coke plants.

• Rounded to zero.

w Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

Table 58. Coke and Breeze Stocks at Coke Plants
(Thousand Short Tons)

Stocks	December 31, 1992	September 30, 1992	December 31, 1991	Percent Difference December 31: 1992 versus 1991
Coke Total	1,883	2,055	2,107	-10.6
By State				
Alabama	139	97	93	49.3
Illinois	w	w	w	w
Indiana	371	435	418	-11.1
Kentucky	w	w	w	w
Maryland	w	w	w	w
Michigan	w	w	w	w
New York	w	w	w	w
Ohio	153	166	161	-5.1
Pennsylvania	534	576	636	-16.0
Texas	w	w	w	w
Utah	w	w	w	w
Virginia	w	w	w	w
West Virginia	w	w	w	w
By Plant Type				
Merchant Coke Plants	267	271	252	5.9
Furnace Coke Plants	1,616	1,784	1,856	-12.9
Breeze Total	215	252	259	-16.9

w Withheld to avoid disclosure of individual company data.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly."

Table 59. Coal Stocks at Coal Producers and Distributors by Coal-Producing State
(Thousand Short Tons)

Coal-Producing State	December 31, 1992	September 30, 1992	December 31, 1991	Percent Difference December 31: 1992 versus 1991
Alabama	2,185	1,784	2,233	-2.1
Alaska	71	67	75	-5.5
Arizona	1,555	1,568	1,461	6.5
Arkansas	6	4	-	-
California	36	21	127	-71.9
Colorado	955	1,120	850	12.3
Illinois	1,969	2,114	1,418	38.9
Indiana	1,016	1,053	525	93.6
Iowa	-	-	*	-
Kansas	28	29	20	45.8
Kentucky Total	3,796	4,519	4,646	-18.3
Eastern	2,809	3,052	3,266	-14.0
Western	987	1,467	1,379	-28.4
Louisiana	2	6	3	-30.2
Maryland	59	52	169	-65.2
Missouri	-	-	5	-
Montana	694	860	571	21.4
New Mexico	1,648	1,741	1,760	-6.3
North Dakota	1,614	1,637	1,619	-3
Ohio	1,087	857	821	32.4
Oklahoma	19	69	41	-54.7
Pennsylvania Total	2,903	3,080	2,844	2.1
Anthracite	198	222	196	.7
Bituminous	2,706	2,858	2,647	2.2
Tennessee	21	63	94	-77.4
Texas	543	440	400	35.8
Utah	1,827	1,906	1,676	9.0
Virginia	1,714	1,953	2,154	-20.4
Washington	47	69	79	-40.0
West Virginia Total	7,405	7,510	6,464	14.5
Northern	3,222	3,316	3,083	4.5
Southern	4,183	4,194	3,382	23.7
Wyoming	2,794	2,677	2,918	-4.2
Appalachian Total	18,183	18,351	18,045	.8
Interior Total	4,570	5,181	3,791	20.6
Western Total	11,241	11,666	11,135	.9
East of the Miss. River	22,155	22,984	21,367	3.7
West of the Miss. River	11,838	12,214	11,604	2.0
U.S. Total	33,993	35,198	32,971	3.1

* Rounded to zero.

Note: Total may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Appendix A

U.S. Coal Import

Appendix A

U.S. Coal Imports

From October through December 1992, U.S. coal imports totaled 1.2 million short tons, a record quarterly total. This was 62 percent higher than the level during the fourth quarter of 1991. U.S. coal imports for 1992 totaled 3.8 million short tons, 12 percent above the 1991 total.

In 1992, Colombia was the leading source of imported coal, followed by Canada and Venezuela. U.S. coal imports from Colombia totaled 1.8 million short tons, 6 percent less than in 1991. In comparison, coal imports from Canada amounted to 1 million short tons, 9 percent more than a year earlier. Imported coal from Venezuela reached 539 thousand short tons, an increase of 1 percent over the previous year. The largest total increase in coal imports was from Indonesia, with 247 thousand short tons more coal received than in 1991.

Electric utilities reported coal imports of 1.8 million short tons for 1992, 8 percent below the total for 1991. Most of that decrease is attributed to lower receipts at the St. Johns River plant of Jacksonville Electric Authority (JEA), and the Schiller plant of the Public Service Company of New Hampshire. The JEA received 1.4 million short tons of imported coal in 1992, 13 percent less than the 1991 total. The Schiller plant receipts were 83 thousand short tons, a decline of 60 percent from total coal imports a year earlier.

The remaining 2 million short tons of imported coal for 1992 went mainly to the industrial sector.

Coal imports for 1992 were valued at 127 million dollars, based on an average price of \$33.46 per short ton.

Table A1. Quantity and Average Price of U.S. Coal Imports, 1984-1992
(Thousand Short Tons and Dollars per Short Ton)

Year	January - March		April - June		July - September		October - December		U.S. Total	
	Quantity	Average Price	Quantity	Average Price	Quantity	Average Price	Quantity	Average Price	Quantity	Average Price
1984	276	\$32.74	269	\$33.90	435	\$35.49	306	\$38.83	1,286	\$35.37
1985	330	37.74	500	35.24	623	36.75	500	34.82	1,952	36.04
1986	485	34.21	576	36.14	537	35.90	614	37.44	2,212	36.02
1987	331	35.04	483	31.69	475	31.94	459	30.35	1,747	32.04
1988	542	28.94	587	33.74	437	26.77	567	29.47	2,134	29.96
1989	531	33.65	687	34.19	925	34.92	708	33.44	2,851	34.14
1990	735	35.07	674	33.67	514	32.05	776	36.14	2,699	34.45
1991	938	33.71	730	34.60	984	31.45	738	33.16	3,390	33.12
1992	679	33.63	1,043	32.96	882	34.43	1,199	33.08	3,803	33.46

Notes: Average price is based on the customs import value. Total may not equal sum of components because of independent rounding. Coal imports include coal to Puerto Rico and the Virgin Islands.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Table A2. Quantity and Average Price of U.S. Coal Imports by Origin, 1984-1992
(Thousand Short Tons and Dollars per Short Ton)

Year and Quarter	Australia	Canada	Colombia	Indonesia	Malaysia	Venezuela	Other Countries	Total
Quantity								
1984	28	266	269	*	-	-	722	1,286
1985	39	404	594	-	-	-	915	1,952
1986	6	433	742	*	-	-	1,031	2,212
1987	211	507	957	-	-	30	43	1,747
1988	66	552	1,225	-	-	203	88	2,134
1989	35	1,004	1,339	-	-	357	117	2,851
1990	24	973	1,428	-	-	263	12	2,699
1991								
January - March	31	186	618	-	-	103	-	938
April - June	-	274	251	-	-	205	*	730
July - September	-	234	659	-	-	91	*	984
October - December	-	242	353	7	-	136	*	738
Total	31	935	1,881	7	-	535	*	3,390
1992								
January - March	31	258	241	-	-	149	-	679
April - June	18	255	539	140	-	92	*	1,043
July - September	23	215	478	113	-	52	*	882
October - December	29	293	505	-	53	247	72	1,199
Total	101	1,021	1,763	253	53	539	72	3,803
Average Price								
1984	\$31.17	\$40.26	\$38.91	(¹)	-	-	\$32.40	\$35.37
1985	31.57	37.10	36.21	-	-	-	35.65	36.04
1986	(¹)	33.86	35.20	(¹)	-	-	37.41	36.02
1987	27.17	32.97	32.89	-	-	\$35.22	23.89	32.04
1988	29.86	31.44	28.83	-	-	26.09	45.43	29.96
1989	34.44	25.73	35.49	-	-	33.48	33.40	31.97
1990	41.73	24.45	36.87	-	-	41.50	37.81	33.43
1991								
January - March	37.97	24.81	33.69	-	-	40.57	-	33.00
April - June	-	26.84	33.95	-	-	38.53	-	33.15
July - September	-	24.71	31.66	-	-	43.12	-	31.36
October - December	-	24.08	32.95	-	-	43.13	-	32.04
Total	37.97	25.10	32.87	-	-	40.87	-	32.34
1992								
January - March	33.38	24.65	33.64	-	-	44.41	-	32.74
April - June	47.61	26.13	32.94	\$37.32	-	33.33	-	32.28
July - September	33.67	25.90	32.60	45.42	-	36.53	34.12	33.24
October - December	33.67	34.31	30.52	-	\$47.06	30.96	25.71	31.95
Total	36.07	27.88	32.25	40.94	47.06	35.61	25.72	32.48

¹ Average prices of \$50 or more are not shown.

* Rounded to zero.

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the customs import value. Beginning in 1989, the average prices presented in this table are representative prices for coal imports that fall within the range of \$20 and \$50, inclusively. Therefore, the *Total* price column in this table will not equal the *U.S. Total* prices in Table A1. Coal imports include coal to Puerto Rico and the Virgin Islands.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Table A3. U. S. Coal Imports by Origin and by Customs District
(Short Tons)

Customs District	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
U.S. Total	1,198,603	881,973	737,690	3,802,767	3,389,792	12.2
Exporting Country: Australia						
Honolulu, HI	28,624	23,166	-	100,986	31,106	224.7
Total	28,624	23,166	-	100,986	31,106	224.7
Exporting Country: Canada						
Los Angeles, CA	-	-	-	-	871	-
Chicago, IL	91,013	29,412	58,958	230,677	208,020	10.9
New Orleans, LA	20,098	-	-	20,098	-	-
Portland, ME	-	-	-	18	-	-
Detroit, MI	58,937	-	65	58,937	73	(¹)
Duluth, MN	-	-	-	-	211	-
Great Falls, MT	10,793	6,375	7,568	36,237	57,916	-37.4
Pembina, ND	111,035	168,356	163,635	657,400	641,781	2.4
Buffalo, NY	-	-	-	-	134	-
Houston-Galveston, TX ..	23	-	-	23	-	-
Seattle, WA	1,057	11,341	11,402	17,462	26,471	-34.0
Total	292,956	215,484	241,628	1,020,852	935,477	9.1
Exporting Country: Colombia						
Tampa, FL	407,258	403,133	256,890	1,419,581	1,581,949	-10.3
New Orleans, LA	-	-	-	-	17,090	-
Boston, MA	24,658	-	35,455	93,788	84,310	11.2
Portland, ME	-	-	-	30,032	-	-
San Juan, PR	32,298	32,216	60,729	114,850	187,067	-38.6
Houston-Galveston, TX ..	40,959	42,484	-	83,443	11,023	(¹)
Virgin Islands	-	-	-	21,456	-	-
Total	505,173	477,833	353,074	1,763,150	1,881,439	-6.3
Exporting Country: Indonesia						
Honolulu, HI	-	113,149	-	253,287	-	-
New Orleans, LA	-	-	6,641	-	6,641	-
Total	-	113,149	6,641	253,287	6,641	(¹)
Exporting Country: Malaysia						
Honolulu, HI	53,419	-	-	53,419	-	-
Total	53,419	-	-	53,419	-	-
Exporting Country: Venezuela						
Tampa, FL	-	-	-	-	98,449	-
New Orleans, LA	62,586	-	-	62,586	-	-
Boston, MA	34,879	-	-	34,879	-	-
Portland, ME	26,249	24,251	58,500	78,813	207,152	-62.0
Philadelphia, PA	34,010	-	-	102,786	69,501	47.9
San Juan, PR	27,558	-	24,246	54,857	24,246	126.3
Virgin Islands	61,233	27,717	53,399	204,862	135,522	51.2
Total	246,515	51,968	136,145	538,783	534,870	.7
Other Exporting Countries						
Los Angeles, CA	-	-	-	-	6	-
San Francisco, CA	-	284	-	284	-	-
Chicago, IL	-	-	-	-	1	-
New Orleans, LA	71,916	-	-	71,916	-	-
Detroit, MI	-	-	202	-	202	-
Cleveland, OH	-	89	-	89	-	-
Philadelphia, PA	-	-	-	1	-	-
Seattle, WA	-	-	-	-	50	-
Total	71,916	373	202	72,290	259	(¹)

¹ Changes of 500 percent or more are not shown.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Table A4. Average Price of U.S. Coal Imports by Origin and by Customs District
(Dollars per Short Ton)

Customs District	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
Total	\$31.95	\$33.24	\$32.04	\$32.48	\$32.34	0.4
Exporting Country: Australia						
Honolulu, HI	\$33.67	\$33.67	-	\$36.07	\$37.97	-5.0
Total	33.67	33.67	-	36.07	37.97	-5.0
Exporting Country: Canada						
Chicago, IL	\$34.94	-	\$23.77	\$28.83	\$26.19	10.1
New Orleans, LA	38.00	-	-	38.00	-	-
Detroit, MI	46.71	-	-	46.71	-	-
Duluth, MN	-	-	-	-	38.34	-
Pembina, ND	26.17	\$25.54	23.47	25.42	24.45	3.9
Seattle, WA	22.68	30.96	34.12	31.33	34.06	-8.0
Total	34.31	25.90	24.08	27.88	25.10	11.0
Exporting Country: Colombia						
Tampa, FL	\$30.08	\$32.13	\$31.97	\$31.83	\$32.45	-1.9
New Orleans, LA	-	-	-	-	28.22	-
Boston, MA	30.48	-	34.84	33.51	34.87	-3.9
Portland, ME	-	-	-	31.34	-	-
San Juan, PR	38.27	38.13	35.95	37.64	35.76	5.3
Houston-Galveston, TX ..	28.81	32.92	-	30.90	36.11	-14.4
Virgin Islands	-	-	-	32.52	-	-
Total	30.52	32.60	32.95	32.25	32.87	-1.9
Exporting Country: Indonesia						
Honolulu, HI	-	\$45.42	-	\$40.94	-	-
Total	-	45.42	-	40.94	-	-
Exporting Country: Malaysia						
Honolulu, HI	\$47.05	-	-	\$47.06	-	-
Total	47.06	-	-	47.06	-	-
Exporting Country: Venezuela						
Tampa, FL	-	-	-	-	\$29.03	-
New Orleans, LA	\$26.45	-	-	\$26.45	-	-
Boston, MA	28.99	-	-	28.99	-	-
Portland, ME	35.75	\$41.10	\$45.22	40.80	45.22	-9.8
Philadelphia, PA	33.38	-	-	35.05	38.10	-8.0
San Juan, PR	32.66	-	36.29	32.43	36.29	-10.6
Virgin Islands	32.52	32.52	43.95	38.67	45.07	-14.2
Total	30.96	36.53	43.13	35.61	40.87	-12.9
Other Exporting Countries						
New Orleans, LA	\$25.71	-	-	\$25.71	-	-
Cleveland, OH	-	\$34.12	-	34.12	-	-
Total	25.71	34.12	-	25.72	-	-

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the customs import value. Beginning in 1989, the average prices presented in this table are representative prices for coal imports that fall within the range of \$20 and \$50, inclusively. Therefore, the *Total* price column in this table will not equal the *U.S. Total* prices in Table A1.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Table A5. Imported Coal Received at Electric Utility Plants by Origin
(Short Tons)

Company and Plant	October - December 1992	July - September 1992	October - December 1991	Year to Date		
				1992	1991	Percent Change
U.S. Total	501,678	494,424	357,113	1,805,912	1,966,800	-8.2
Exporting Country: Canada						
New England Power (NEES), Salem Harbor ...	-	-	-	32,800	-	-
Takoma Dept. of Public Utilities, Steam No.2 ..	-	10,290	11,670	15,290	26,920	-43.2
Total	-	10,290	11,670	48,090	26,920	78.6
Exporting Country: Colombia						
Central Power and Light (CSW), Coletto Creek	37,158	-	-	37,158	-	-
Jacksonville Electric Authority, St Johns River	367,620	441,650	256,890	1,418,580	1,582,600	-10.4
New England Power (NEES), Salem Harbor ...	34,800	-	-	34,800	-	-
Public Serv Co of New Hampshire, Schiller	18,400	-	-	48,400	-	-
Total	457,978	441,650	256,890	1,538,938	1,582,600	-2.8
Exporting Country: Indonesia						
Ohio Edison, Burger Plant	13,100	-	-	13,100	-	-
Tampa Electric, Big Bend	-	-	24,253	-	24,253	-
Total	13,100	-	24,253	13,100	24,253	-46.0
Exporting Country: Venezuela						
Central Power and Light (CSW), Coletto Creek	-	42,484	-	42,484	-	-
Jacksonville Electric Authority, St Johns River	-	-	-	-	42,200	-
New England Power (NEES), Brayton Point	24,600	-	35,100	129,000	83,700	54.1
Public Serv Co of New Hampshire, Schiller	6,000	-	29,200	34,300	207,127	-83.4
Total	30,600	42,484	64,300	205,784	333,027	-38.2

Note: Total may not equal sum of components because of independent rounding.

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

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1992

Exporting Country and Time Period	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Baltimore Gas and Electric, Brandon Shores						
Colombia 1989	132.0	12,361	0.57	5.30	193.3	47.79
Company and Plant: Baltimore Gas and Electric, Wagner						
Colombia 1989	115.0	12,159	0.60	6.00	196.2	47.71
Company and Plant: Central Power and Light (CSW), Coletto Creek						
Australia 1987	57.1	12,549	0.54	11.80	149.5	37.52
Colombia 1987	37.2	11,951	.53	6.50	188.8	45.13
1992 October - December	37.2	12,892	.62	7.90	174.5	44.99
Total	37.2	12,892	.62	7.90	174.5	44.99
Venezuela 1992 July - September	42.5	13,214	.66	7.20	175.8	46.46
Total	42.5	13,214	.66	7.20	175.8	46.46
Company and Plant: Florida Power Corp, Crystal River ²						
Australia 1987	26.1	12,345	0.69	9.71	141.6	34.95
1988	38.4	12,415	.66	9.31	154.4	38.34
Canada 1986	37.0	10,005	.63	13.50	133.4	26.70
Colombia 1984	17.7	12,588	.71	9.50	248.0	62.44
1985	361.7	12,483	.64	8.94	223.8	55.88
1986	418.3	12,257	.50	5.45	155.9	38.22
1987	333.3	12,236	.54	5.39	175.0	42.83
Venezuela 1987	19.3	12,744	.68	7.90	150.0	38.23
1988	192.8	13,302	.49	3.57	137.6	36.62
Company and Plant: Gulf Power, Smith						
South Africa 1980	749.8	11,908	0.67	12.96	187.8	44.72
1981	712.3	11,894	.71	13.06	211.4	50.29
1982	605.0	11,950	.68	12.71	216.2	51.68
1983	813.7	12,056	.65	11.96	224.5	54.12
1984	616.4	11,914	.64	12.52	243.8	58.10
1985	865.5	11,757	.59	12.78	254.5	59.85
1986	1,030.5	11,755	.53	12.45	216.9	50.98
1987	79.3	11,650	.47	12.80	220.8	51.45
Company and Plant: Jacksonville Electric Authority, St Johns River						
Colombia 1987	93.6	11,646	0.58	7.90	137.0	31.91
1988	686.9	11,838	.70	6.72	144.4	34.19
1989	803.5	11,979	.74	7.36	173.4	41.54
1990	1,007.7	11,938	.74	6.58	171.6	40.96

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Exporting Country and Time Period	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Jacksonville Electric Authority, St Johns River						
Colombia						
1991						
January - March	498.6	12,071	0.72	6.70	158.2	38.20
April - June	332.3	11,967	.75	7.57	162.9	38.99
July - September	494.8	11,870	.76	7.22	143.5	34.06
October - December	256.9	12,017	.69	6.63	149.0	35.80
Total	1,582.6	11,978	.73	7.04	153.1	36.68
1992						
January - March	206.5	11,945	.73	7.26	156.5	37.40
April - June	402.8	11,867	.71	7.33	152.4	36.17
July - September	441.6	11,906	.70	6.88	151.6	36.09
October - December	367.6	11,890	.70	6.28	142.0	33.77
Total	1,418.6	11,897	.71	6.91	150.0	35.70
Venezuela						
1989	37.1	13,461	.48	4.00	141.0	37.96
1990	40.1	12,288	.77	11.50	170.7	41.95
1991						
April - June	42.2	12,913	.56	8.90	126.9	32.77
Total	42.2	12,913	.56	8.90	126.9	32.77
Company and Plant: Mississippi Power (Southern Co), Daniel						
Colombia						
1987	65.9	12,206	0.49	4.27	173.5	42.35
Company and Plant: New England Power (NEES), Brayton Point						
Canada						
1984	40.0	12,846	0.53	8.90	199.4	51.23
1985	42.7	12,622	.45	9.61	179.0	45.19
Colombia						
1987	29.0	11,928	.72	7.15	132.5	31.61
1989	27.8	12,617	.67	9.09	167.1	42.17
1990	30.1	12,837	.76	8.70	177.3	45.52
Venezuela						
1990	69.8	12,773	.61	7.39	181.0	46.23
1991						
April - June	24.0	13,262	.75	8.22	167.9	44.53
July - September	24.6	13,540	.82	7.57	167.1	45.25
October - December	35.1	13,372	.74	7.07	167.1	44.69
Total	83.7	13,390	.77	7.55	167.3	44.81
1992						
January - March	70.0	13,495	.74	7.14	166.9	45.05
April - June	34.4	13,378	.76	7.25	166.8	44.63
October - December	24.6	13,027	.77	7.92	157.7	41.09
Total	129.0	13,375	.75	7.32	165.2	44.18
Company and Plant: New England Power (NEES), Salem Harbor						
Canada						
1992						
January - March	32.8	13,569	1.40	3.82	174.9	47.46
Total	32.8	13,569	1.40	3.82	174.9	47.46
Colombia						
1989	35.0	12,201	.58	4.61	196.4	47.93
1990	74.7	12,176	.66	5.07	195.7	47.65
1992						
October - December	34.8	12,893	.58	7.02	145.3	37.47
Total	34.8	12,893	.58	7.02	145.3	37.47

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Exporting Country and Time Period	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	* Cents per Million Btu	Dollars per Short Ton
Company and Plant: Ohio Edison, Burger Plant						
Indonesia						
1992						
October - December	13.1	9,587	0.14	1.20	166.9	32.00
Total	13.1	9,587	.14	1.20	166.9	32.00
Company and Plant: Public Serv Co of New Hampshire, Merrimack						
Canada						
1987	14.1	13,100	1.80	8.50	171.0	44.80
1988	46.3	13,397	2.10	5.61	175.9	47.14
Company and Plant: Public Serv Co of New Hampshire, Schiller						
Canada						
1987	1.5	13,100	1.80	8.50	146.5	38.38
1988	5.6	13,452	1.10	3.10	146.1	39.31
1990	33.6	13,459	1.30	5.90	181.0	48.72
Colombia						
1987	9.2	11,825	.67	7.30	153.8	36.37
1992						
January - March	30.0	12,154	.63	5.49	156.2	37.96
October - December	18.4	12,876	.59	7.65	158.9	40.92
Total	48.4	12,428	.61	6.31	157.2	39.08
Venezuela						
1990	110.2	13,105	.49	4.82	187.7	49.19
1991						
January - March	28.5	13,101	.47	5.38	173.9	45.57
April - June	91.4	12,966	.53	5.62	173.3	44.94
July - September	58.0	13,030	.52	5.75	173.8	45.30
October - December	29.2	12,868	.51	5.80	173.9	44.75
Total	207.1	12,989	.52	5.65	173.6	45.10
1992						
January - March	28.3	12,879	.57	6.92	172.5	44.43
October - December	6.0	12,891	.64	6.02	146.9	37.87
Total	34.3	12,881	.58	6.76	168.0	43.29
Company and Plant: Public Serv Electric & Gas Co, Mercer						
Colombia						
1989	12.4	13,116	0.57	4.20	175.8	46.12
Venezuela						
1989	28.6	13,149	.51	4.57	188.2	49.49
Company and Plant: Savannah Electric and Power, McIntosh						
Colombia						
1989	16.2	13,189	0.71	8.50	174.3	45.98
Company and Plant: Savannah Electric and Power, Port Wentworth						
Colombia						
1989	7.0	13,189	0.71	8.40	168.5	44.45
Company and Plant: Takoma Dept. of Public Utilities, Steam No.2						
Canada						
1991						
January - March	4.1	10,035	0.38	12.90	200.0	40.14

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Exporting Country and Time Period	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Takoma Dept. of Public Utilities, Steam No.2						
Canada						
1991						
April - June	5.8	9,925	0.42	12.50	211.0	41.88
July - September	5.4	10,016	.54	12.40	211.0	42.27
October - December	11.7	10,003	.46	13.00	210.8	42.17
Total	26.9	9,994	.46	12.76	209.2	41.82
1992						
January - March	5.0	9,814	.41	11.97	215.0	42.20
July - September	10.3	10,079	.42	13.42	214.5	43.25
Total	15.3	9,993	.42	12.95	214.7	42.90
Company and Plant: Tampa Electric, Big Bend ³						
Indonesia						
1991						
October - December	24.3	9,815	0.07	1.20	227.3	44.62
Total	24.3	9,815	.07	1.20	227.3	44.62
Poland						
1980	179.5	11,300	1.40	12.00	169.7	38.36
1984	109.1	12,624	.61	7.09	155.5	39.27
Company and Plant: Tampa Electric, Gannon						
Poland						
1980	57.4	12,144	0.81	9.07	183.3	44.53
1984	.2	13,238	.75	4.40	143.5	38.00
Company and Plant: Virginia Electric and Power, Chesterfield						
Colombia						
1985	29.0	11,795	0.73	7.70	175.4	41.38
Total Of U. S. Electric Utility Plants						
Australia						
1987	83.2	12,485	0.59	11.15	147.0	36.72
1980	38.4	12,415	.66	9.31	154.4	38.34
Canada						
1984	40.0	12,846	.53	8.90	199.4	51.23
1985	42.7	12,622	.45	9.61	179.0	45.19
1986	37.0	10,005	.63	13.50	133.4	26.70
1987	15.6	13,100	1.80	8.50	168.6	44.18
1988	51.9	13,403	1.99	5.34	172.7	46.29
1990	33.6	13,459	1.30	5.90	181.0	48.72
1991						
January - March	4.1	10,035	.38	12.90	200.0	40.14
April - June	5.8	9,925	.42	12.50	211.0	41.88
July - September	5.4	10,016	.54	12.40	211.0	42.27
October - December	11.7	10,003	.46	13.00	210.8	42.17
Total	26.9	9,994	.46	12.76	209.2	41.82
1992						
January - March	37.8	13,072	1.27	4.90	178.9	46.77
July - September	10.3	10,079	.42	13.42	214.5	43.25
Total	48.1	12,432	1.09	6.72	185.1	46.01
Colombia						
1984	17.7	12,588	.71	9.50	248.0	62.44
1985	390.7	12,432	.64	8.85	220.4	54.81
1986	418.3	12,257	.50	5.45	155.9	38.22
1987	568.1	12,094	.55	5.87	167.2	40.45
1988	686.9	11,838	.70	6.72	144.4	34.19

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Exporting Country and Time Period	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Total Of U. S. Electric Utility Plants						
Colombia						
1989	1,148.8	12,099	0.70	6.93	178.6	43.22
1990	1,112.5	11,978	.73	6.54	173.4	41.53
1991						
January - March	498.6	12,071	.72	6.70	158.2	38.20
April - June	332.3	11,967	.75	7.57	162.9	38.99
July - September	494.8	11,870	.76	7.22	143.5	34.06
October - December	256.9	12,017	.69	6.63	149.0	35.80
Total	1,582.6	11,978	.73	7.04	153.1	36.68
1992						
January - March	236.5	11,971	.72	7.03	156.5	37.47
April - June	402.8	11,867	.71	7.33	152.4	36.17
July - September	441.6	11,906	.70	6.88	151.6	36.09
October - December	458.0	12,087	.68	6.52	145.8	35.25
Total	1,538.9	11,960	.70	6.91	150.8	36.07
Indonesia						
1991						
October - December	24.3	9,815	.07	1.20	227.3	44.62
Total	24.3	9,815	.07	1.20	227.3	44.62
1992						
October - December	13.1	9,587	.14	1.20	166.9	32.00
Total	13.1	9,587	.14	1.20	166.9	32.00
Poland						
1980	236.8	11,505	1.26	11.29	173.2	39.86
1984	109.3	12,625	.61	7.09	155.5	39.27
South Africa						
1980	749.8	11,908	.67	12.96	187.8	44.72
1981	712.3	11,894	.71	13.06	211.4	50.29
1982	605.0	11,950	.68	12.71	216.2	51.68
1983	813.7	12,056	.65	11.96	224.5	54.12
1984	616.4	11,914	.64	12.52	243.8	58.10
1985	865.5	11,757	.59	12.78	254.5	59.85
1986	1,030.5	11,755	.53	12.45	216.9	50.98
1987	79.3	11,650	.47	12.80	220.8	51.45
Venezuela						
1987	19.3	12,744	.68	7.90	150.0	38.23
1988	192.8	13,302	.49	3.57	137.6	36.62
1989	65.7	13,325	.49	4.25	161.3	42.97
1990	220.1	12,851	.58	6.85	182.6	46.93
1991						
January - March	28.5	13,101	.47	5.38	173.9	45.57
April - June	157.6	12,997	.57	6.89	160.1	41.62
July - September	82.6	13,182	.61	6.29	171.8	45.29
October - December	64.3	13,143	.64	6.49	170.1	44.72
Total	333.0	13,080	.59	6.54	166.2	43.47
1992						
January - March	98.3	13,318	.69	7.08	168.5	44.87
April - June	34.4	13,378	.76	7.25	166.8	44.63
July - September	42.5	13,214	.66	7.20	175.8	46.46
October - December	30.6	13,000	.74	7.55	155.6	40.46
Total	205.8	13,259	.70	7.20	167.8	44.50

¹ Data reported on quality of coal as received.

² Average cost and quality data on imported coal delivered to the Crystal River Plant of Florida Power Corporation through August 1985 include coal delivered from Kentucky, Virginia, and West Virginia. Prior to January 1986, the average cost of imported coal delivered to the Crystal River Plant included transportation costs directly to the plant. Beginning in January 1986, the average delivered cost for imported coal to the Crystal River Plant includes only transportation costs to the transfer facility in Myrtle Grove, Louisiana, and excludes the transportation costs of approximately \$7 to \$10 per short ton between the transfer facility and the Crystal River Plant.

³ Average cost data on coal delivered to Tampa Electric, Big Bend plant from the New Orleans transfer facility do not include the transportation cost of approximately \$5 per short ton from New Orleans to Tampa.

Note: Total may not equal sum of components because of independent rounding.

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

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1992**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Baltimore Gas and Electric, Brandon Shores						
1984						
Kentucky	297.0	13,047	0.71	8.04	203.8	53.17
Virginia	15.0	12,405	.72	9.29	190.6	47.28
West Virginia	768.0	12,667	.69	9.76	197.7	50.08
Total	1,080.0	12,768	.70	9.28	199.3	50.89
1985						
Kentucky	273.0	13,020	.71	8.56	185.6	48.32
West Virginia	750.0	12,743	.71	9.87	190.0	48.42
Total	1,023.0	12,817	.71	9.52	188.8	48.39
1986						
Kentucky	338.0	13,036	.70	8.01	180.7	47.11
West Virginia	1,157.0	12,635	.72	10.23	172.6	43.61
Total	1,495.0	12,726	.72	9.73	174.5	44.40
1987						
Kentucky	316.0	13,047	.73	8.47	167.3	43.66
West Virginia	1,039.0	12,512	.73	11.06	164.3	41.11
Total	1,355.0	12,637	.73	10.46	165.0	41.71
1988						
Kentucky	320.0	13,063	.78	8.56	161.8	42.28
West Virginia	1,165.0	12,616	.71	10.64	158.6	40.01
Total	1,485.0	12,712	.72	10.19	159.3	40.50
1989						
Kentucky	608.0	12,888	.71	8.10	158.5	40.86
West Virginia	1,047.0	12,819	.73	8.95	154.6	39.63
Colombia	132.0	12,361	.57	5.30	193.3	47.79
Total	1,787.0	12,808	.71	8.39	158.7	40.65
1990						
Kentucky	406.0	12,942	.73	7.88	159.6	41.30
Virginia	7.0	13,175	.56	8.70	168.4	44.37
West Virginia	1,449.0	12,681	.69	9.87	155.3	39.40
Total	1,862.0	12,740	.70	9.43	156.3	39.83
1991						
Kentucky	279.0	13,031	.65	7.36	156.5	40.78
West Virginia	2,033.0	12,783	.70	9.45	155.1	39.66
Total	2,312.0	12,813	.70	9.20	155.3	39.80
1992						
January - March						
Kentucky	50.0	12,826	.72	7.88	158.3	40.62
West Virginia	513.0	12,778	.68	9.52	157.2	40.18
Total	563.0	12,782	.69	9.37	157.3	40.22
April - June						
Kentucky	86.0	12,893	.76	7.70	153.1	39.47
West Virginia	732.0	12,752	.68	9.59	153.9	39.25
Total	818.0	12,787	.69	9.40	153.8	39.27
July - September						
Kentucky	60.0	13,026	.70	6.87	154.5	40.24
West Virginia	560.0	12,601	.67	10.11	148.9	37.53
Total	620.0	12,642	.67	9.80	149.5	37.79
October - December						
Kentucky	19.0	12,983	.71	6.19	155.8	40.46
West Virginia	513.0	12,619	.68	10.56	153.6	38.76
Total	532.0	12,632	.68	10.40	153.7	38.82
Year to Date						
Kentucky	215.0	12,922	.73	7.38	154.9	40.04
West Virginia	2,318.0	12,692	.68	9.92	153.4	38.93
Total	2,533.0	12,711	.68	9.70	153.5	39.03
Company and Plant: Baltimore Gas and Electric, Wagner						
1980						
Pennsylvania	179.8	12,983	0.89	8.15	178.1	46.26
West Virginia	490.0	12,880	.91	8.93	185.7	47.83
Total	669.8	12,908	.90	8.72	183.6	47.41
1981						
Pennsylvania	194.0	13,152	.90	8.33	199.0	52.34
West Virginia	340.0	12,811	.90	9.08	208.3	53.36
Total	534.0	12,935	.90	8.81	204.8	52.99

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Baltimore Gas and Electric, Wagner						
1982						
Pennsylvania	22.0	12,333	0.85	9.70	171.2	42.23
West Virginia	601.0	12,976	.86	8.46	208.7	54.17
Total	623.0	12,954	.86	8.51	207.5	53.75
1983						
West Virginia	600.0	13,052	.85	7.99	201.2	52.53
Total	600.0	13,052	.85	7.99	201.2	52.53
1984						
West Virginia	424.0	13,078	.87	7.95	202.6	52.98
Total	424.0	13,078	.87	7.95	202.6	52.98
1985						
West Virginia	516.0	13,051	.88	8.18	191.9	50.09
Total	516.0	13,051	.88	8.18	191.9	50.09
1986						
Pennsylvania	6.0	12,535	.94	10.40	146.4	36.70
West Virginia	637.0	13,046	.88	7.93	177.3	46.26
Total	643.0	13,041	.88	7.95	177.0	46.17
1987						
West Virginia	620.0	13,030	.86	8.39	159.2	41.49
Total	620.0	13,030	.86	8.39	159.2	41.49
1988						
West Virginia	1,078.0	13,038	.83	8.49	153.4	40.00
Total	1,078.0	13,038	.83	8.49	153.4	40.00
1989						
Kentucky	36.0	12,959	.79	8.29	166.7	43.20
West Virginia	719.0	12,991	.85	8.49	155.8	40.49
Colombia	115.0	12,159	.60	6.00	196.2	47.71
Total	870.0	12,879	.81	8.16	161.3	41.56
1990						
Kentucky	1.0	12,814	.74	8.80	167.2	42.85
West Virginia	929.0	13,010	.84	8.29	160.3	41.70
Total	930.0	13,009	.84	8.29	160.3	41.70
1991						
West Virginia	674.0	13,056	.86	8.38	168.5	44.00
Total	674.0	13,056	.86	8.38	168.5	44.00
1992						
January - March						
West Virginia	144.0	13,075	.85	8.30	168.1	43.95
Total	144.0	13,075	.85	8.30	168.1	43.95
April - June						
West Virginia	250.0	13,030	.84	8.31	165.8	43.21
Total	250.0	13,030	.84	8.31	165.8	43.21
July - September						
West Virginia	210.0	12,981	.83	8.21	160.2	41.59
Total	210.0	12,981	.83	8.21	160.2	41.59
October - December						
West Virginia	277.0	12,956	.88	8.56	160.9	41.70
Total	277.0	12,956	.88	8.56	160.9	41.70
Year to Date						
West Virginia	881.0	13,002	.85	8.36	163.3	42.47
Total	881.0	13,002	.85	8.36	163.3	42.47
Company and Plant: Central Power and Light (CSW), Coletto Creek						
1980						
Colorado	982.7	10,555	0.36	6.52	207.9	43.88
Total	982.7	10,555	.36	6.52	207.9	43.88
1981						
Colorado	1,775.8	10,584	.32	6.03	225.9	47.82
Total	1,775.8	10,584	.32	6.03	225.9	47.82
1982						
Colorado	2,035.9	10,680	.34	5.53	246.7	52.69
Total	2,035.9	10,680	.34	5.53	246.7	52.69
1983						
Colorado	1,952.3	10,710	.35	5.39	245.6	52.61
Total	1,952.3	10,710	.35	5.39	245.6	52.61

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Central Power and Light (CSW), Coletto Creek						
1984						
Colorado	1,519.6	10,837	0.39	6.50	254.6	55.18
New Mexico	253.8	12,922	.46	8.71	188.0	48.59
Total	1,773.4	11,136	.40	6.82	243.5	54.24
1985						
Colorado	1,430.7	10,842	.36	5.27	277.4	60.14
New Mexico	198.7	12,499	.48	11.60	190.1	47.51
Total	1,629.4	11,044	.38	6.04	265.3	58.60
1986						
Colorado	1,791.7	10,764	.34	5.18	221.8	47.76
Total	1,791.7	10,764	.34	5.18	221.8	47.76
1987						
Colorado	1,864.1	10,726	.36	5.38	208.2	44.67
Australia	57.1	12,549	.54	11.80	149.5	37.52
Colombia	37.2	11,951	.53	6.50	188.8	45.13
Total	1,958.4	10,802	.37	5.59	205.8	44.47
1988						
Colorado	1,794.8	10,827	.37	5.45	211.6	45.83
Utah	42.6	11,889	.53	8.59	161.9	38.50
Wyoming	74.7	9,908	.37	6.02	141.0	27.94
Total	1,912.1	10,815	.37	5.54	207.9	44.97
1989						
Colorado	1,537.4	10,705	.37	4.98	221.8	47.50
Utah	218.2	11,878	.54	6.56	170.8	40.59
Total	1,755.6	10,851	.39	5.17	214.9	46.64
1990						
Colorado	1,828.8	10,588	.38	6.30	206.0	43.63
Total	1,828.8	10,588	.38	6.30	206.0	43.63
1991						
Colorado	1,733.6	10,753	.38	5.99	207.6	44.64
Total	1,733.6	10,753	.38	5.99	207.6	44.64
1992						
January - March						
Colorado	420.9	10,813	.37	6.23	206.2	44.59
Total	420.9	10,813	.37	6.23	206.2	44.59
April - June						
Colorado	414.6	10,747	.36	5.78	212.0	45.56
Total	414.6	10,747	.36	5.78	212.0	45.56
July - September						
Colorado	463.7	10,877	.41	6.11	205.2	44.63
Venezuela	42.5	13,214	.66	7.20	175.8	46.46
Total	506.2	11,073	.43	6.21	202.2	44.78
October - December						
Colorado	481.5	11,074	.42	7.04	198.1	43.87
Colombia	37.2	12,892	.62	7.90	174.5	44.99
Total	518.7	11,205	.43	7.10	196.1	43.95
Year to Date						
Colorado	1,780.7	10,885	.39	6.32	205.0	44.63
Colombia	37.2	12,892	.62	7.90	174.5	44.99
Venezuela	42.5	13,214	.66	7.20	175.8	46.46
Total	1,860.4	10,978	.40	6.37	203.5	44.68
Company and Plant: Florida Power Corp, Crystal River ²						
1980						
Illinois	759.0	11,748	1.96	9.79	205.0	48.17
Kentucky	1,161.0	11,767	1.93	9.81	206.0	48.47
Total	1,920.0	11,760	1.94	9.80	205.6	48.35
1981						
Illinois	582.5	11,834	1.86	9.99	227.3	53.80
Kentucky	1,900.5	11,802	1.88	10.26	236.1	55.72
Total	2,483.0	11,810	1.88	10.19	234.0	55.27
1982						
Illinois	102.5	12,144	1.30	10.24	244.4	59.35
Kentucky	1,889.4	11,972	1.57	10.46	243.0	58.19
Virginia	282.3	12,358	.93	8.94	274.1	67.74
West Virginia	338.3	12,547	.77	8.36	287.3	72.09
Wyoming	13.4	12,001	.68	8.20	283.1	67.95
Total	2,625.8	12,095	1.38	10.01	252.6	61.10

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1992 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Florida Power Corp, Crystal River ²						
1983						
Illinois	304.6	12,138	1.32	10.07	249.1	60.46
Kentucky	1,625.5	12,189	1.23	10.07	249.1	60.72
Virginia	541.1	12,559	.81	9.15	270.3	67.90
West Virginia	976.1	12,622	.76	9.05	274.9	69.38
Total	3,447.2	12,365	1.04	9.64	259.9	64.28
1984						
Illinois	31.4	12,219	1.11	10.06	256.5	62.68
Kentucky	2,342.2	12,328	.98	10.13	248.8	61.34
Virginia	601.6	12,547	.74	9.73	251.0	62.99
West Virginia	1,069.1	12,572	.71	9.76	250.9	63.09
Colombia	17.7	12,588	.71	9.50	248.0	62.44
Total	4,062.1	12,425	.87	9.97	249.7	62.06
1985						
Kentucky	2,948.9	12,572	.87	9.63	220.3	55.40
Virginia	757.3	12,656	.68	9.09	244.6	61.91
West Virginia	695.4	12,690	.68	9.04	242.9	61.65
Colombia	361.7	12,483	.64	8.94	223.8	55.88
Total	4,763.4	12,596	.79	9.41	227.8	57.39
1986						
Alabama	27.5	12,083	.70	10.65	176.1	42.55
Kentucky	3,727.0	12,704	.89	8.79	185.8	47.20
Virginia	708.6	12,540	.71	9.23	246.7	61.88
West Virginia	741.8	12,651	.72	10.41	165.4	41.84
Canada	37.0	10,005	.63	13.50	133.4	26.70
Colombia	418.3	12,257	.50	5.45	155.9	38.22
Total	5,660.2	12,623	.82	8.85	188.2	47.51
1987						
Alabama	56.8	11,951	.65	11.20	168.8	40.36
Kentucky	3,938.5	12,702	.89	8.64	175.4	44.55
Virginia	795.0	12,463	.70	9.52	231.3	57.65
West Virginia	661.3	12,674	.72	10.08	182.9	46.35
Australia	26.1	12,345	.69	9.71	141.6	34.95
Colombia	333.3	12,236	.54	5.39	175.0	42.83
Venezuela	19.3	12,744	.68	7.90	150.0	38.23
Total	5,830.1	12,631	.82	8.77	183.4	46.34
1988						
Kentucky	3,811.8	12,743	.87	8.34	179.1	45.65
Virginia	845.7	12,514	.70	9.26	221.6	55.46
West Virginia	942.9	12,557	.75	10.09	183.9	46.19
Australia	38.4	12,415	.66	9.31	154.4	38.34
Venezuela	192.8	13,302	.49	3.57	137.6	36.62
Total	5,831.6	12,696	.81	8.60	184.4	46.81
1989						
Kentucky	4,059.1	12,670	.88	8.24	162.1	41.09
Virginia	821.2	12,480	.72	8.99	233.7	58.33
West Virginia	783.6	12,569	.69	10.62	174.4	43.84
Total	5,663.8	12,628	.63	8.68	174.1	43.97
1990						
Kentucky	3,910.5	12,770	.86	7.94	162.8	41.57
Virginia	878.9	12,389	.71	9.21	245.2	60.75
West Virginia	752.5	12,582	.66	9.85	174.9	44.00
Total	5,541.9	12,684	.81	8.40	177.2	44.94
1991						
Kentucky	3,949.2	12,694	.90	8.42	168.8	42.84
Virginia	841.2	12,424	.71	9.12	230.1	57.17
West Virginia	646.0	12,521	.66	9.78	185.6	46.49
Total	5,436.4	12,631	.84	8.69	180.1	45.49
1992						
January - March						
Kentucky	842.9	12,750	.84	8.33	185.0	47.21
Virginia	211.1	12,384	.72	9.64	238.3	59.01
Total	1,054.0	12,684	.81	8.59	195.4	49.57
April - June						
Kentucky	755.7	12,767	.86	8.44	172.6	44.08
Virginia	220.5	12,387	.73	9.74	225.8	55.94
Total	976.2	12,681	.83	8.74	184.4	46.76

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Florida Power Corp, Crystal River ²						
1992						
July - September						
Kentucky	671.5	12,756	0.84	8.41	169.3	43.20
Virginia	191.2	12,364	.72	9.97	220.6	54.55
Total	862.8	12,669	.82	8.76	180.4	45.72
October - December						
Kentucky	787.9	12,703	.84	8.44	167.9	42.66
Virginia	222.6	12,314	.70	9.94	217.7	53.62
Total	1,010.4	12,617	.81	8.77	178.6	45.07
Year to Date						
Kentucky	3,058.0	12,746	.85	8.40	174.1	44.38
Virginia	845.4	12,362	.72	9.82	225.6	55.78
Total	3,903.4	12,663	.82	8.71	185.0	46.85
Company and Plant: Florida Power Corp, IMT Transfer						
1992						
January - March						
Kentucky	350.4	12,326	0.87	8.66	174.8	43.09
West Virginia	49.6	12,575	.66	9.80	175.0	44.01
Total	399.9	12,357	.85	8.80	174.8	43.20
April - June						
Kentucky	288.1	12,471	.90	8.74	167.8	41.85
West Virginia	74.4	12,637	.69	9.84	171.1	43.24
Total	362.5	12,505	.85	8.96	168.5	42.13
July - September						
Kentucky	288.5	12,465	.86	9.24	166.3	41.45
West Virginia	16.6	12,621	1.00	9.29	158.3	39.96
Total	305.0	12,473	.86	9.24	165.8	41.37
October - December						
Kentucky	256.2	12,453	.81	9.39	170.1	42.37
West Virginia	55.1	12,684	1.03	10.24	157.5	39.96
Total	311.3	12,493	.85	9.54	167.9	41.95
Year to Date						
Kentucky	1,183.1	12,423	.86	8.98	170.0	42.23
West Virginia	195.7	12,633	.80	9.90	167.1	42.23
Total	1,378.8	12,452	.85	9.11	169.6	42.23
Company and Plant: Florida Power Corp, TTI Transfer						
1992						
January - March						
Kentucky	34.7	12,672	0.84	7.43	139.7	35.42
Total	34.7	12,672	.84	7.43	139.7	35.42
April - June						
Kentucky	78.9	12,214	.98	8.31	139.9	34.17
Total	78.9	12,214	.98	8.31	139.9	34.17
July - September						
Kentucky	113.3	12,339	.91	7.79	140.5	34.67
Total	113.3	12,339	.91	7.79	140.5	34.67
October - December						
Kentucky	89.2	12,318	.95	7.84	142.4	35.08
Total	89.2	12,318	.95	7.84	142.4	35.08
Year to Date						
Kentucky	316.2	12,338	.93	7.89	140.8	34.74
Total	316.2	12,338	.93	7.89	140.8	34.74
Company and Plant: Gulf Power, Smith						
1980						
Illinois	207.0	11,809	2.64	9.99	179.0	42.26
South Africa	749.8	11,908	.67	12.96	187.8	44.72
Total	956.8	11,866	1.10	12.32	185.9	44.19
1981						
Alabama	82.1	11,929	.75	13.50	220.2	52.54
Illinois	234.0	11,832	2.71	10.04	197.6	46.76
Kentucky	35.1	12,133	2.50	8.53	165.3	40.12
South Africa	712.3	11,894	.71	13.06	211.4	50.29
Total	1,063.5	11,891	1.21	12.28	207.5	49.35

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Gulf Power, Smith						
1982						
Illinois	298.4	11,673	2.76	10.31	212.0	49.50
South Africa	605.0	11,950	.68	12.71	216.2	51.68
Total	903.4	11,858	1.37	11.91	214.9	50.96
1983						
Illinois	15.4	11,729	2.62	10.48	219.3	51.44
Kentucky	3.3	12,381	2.33	8.80	195.4	48.38
South Africa	813.7	12,056	.65	11.96	224.5	54.12
Total	832.4	12,051	.70	11.92	224.3	54.05
1984						
Alabama	12.6	12,321	3.08	11.82	208.6	51.40
South Africa	616.4	11,914	.64	12.52	243.8	58.10
Total	629.0	11,922	.68	12.50	243.1	57.96
1985						
Alabama	4.2	11,811	2.76	11.49	211.0	49.84
Kentucky	33.0	11,975	3.05	10.25	175.5	42.03
South Africa	865.5	11,757	.59	12.78	254.5	59.85
Total	902.7	11,765	.69	12.68	251.4	59.16
1986						
Kentucky	13.4	12,476	3.18	10.22	182.5	45.53
South Africa	1,030.5	11,755	.53	12.45	216.9	50.98
Total	1,043.9	11,764	.57	12.42	216.4	50.91
1987						
Alabama	17.5	11,982	3.00	13.90	118.2	28.33
Illinois	336.6	12,083	2.78	9.74	220.1	53.18
Kentucky	422.0	12,490	2.96	9.66	120.6	30.14
South Africa	79.3	11,650	.47	12.80	220.8	51.45
Total	855.4	12,242	2.66	10.07	168.0	41.14
1988						
Illinois	416.8	12,155	2.60	8.48	199.3	48.45
Kentucky	507.6	12,433	3.01	9.66	123.1	30.61
West Virginia	11.8	12,855	2.63	9.20	173.7	44.66
Total	936.2	12,315	2.82	9.13	157.2	38.73
1989						
Illinois	496.5	12,005	2.71	9.04	205.3	49.29
Kentucky	100.4	12,445	3.03	9.52	128.9	32.07
Total	596.9	12,079	2.76	9.12	192.1	46.40
1990						
Illinois	528.3	11,990	2.73	8.95	218.5	52.41
Kentucky	127.6	11,969	2.87	7.78	143.2	34.28
West Virginia	12.4	13,372	2.58	6.10	186.0	49.74
Total	668.3	12,012	2.76	8.67	203.5	48.90
1991						
Illinois	906.3	12,015	2.72	8.66	222.5	53.46
Kentucky	132.5	11,953	2.75	6.12	128.9	30.82
Total	1,038.8	12,007	2.72	8.34	210.6	50.57
1992						
January - March						
Illinois	244.6	11,951	2.71	8.20	215.4	51.48
Kentucky	6.3	11,982	2.54	7.10	129.5	31.03
Total	250.9	11,952	2.71	8.18	213.2	50.97
April - June						
Illinois	220.6	12,017	2.82	8.31	222.2	53.39
Total	220.6	12,017	2.82	8.31	222.2	53.39
July - September						
Illinois	222.3	12,022	2.83	8.68	225.5	54.22
Total	222.3	12,022	2.83	8.68	225.5	54.22
October - December						
Illinois	191.0	12,000	2.86	8.72	228.6	54.86
Total	191.0	12,000	2.86	8.72	228.6	54.86
Year to Date						
Illinois	878.5	11,996	2.80	8.46	222.5	53.39
Kentucky	6.3	11,982	2.54	7.10	129.5	31.03
Total	884.8	11,996	2.80	8.45	221.9	53.23

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Jacksonville Electric Authority, St Johns River						
1986						
Kentucky	204.0	11,728	3.83	12.81	142.6	33.45
Total	204.0	11,728	3.83	12.81	142.6	33.45
1987						
Kentucky	1,109.7	12,557	1.87	9.77	160.8	40.39
West Virginia	563.2	12,232	.87	12.25	160.4	39.25
Colombia	93.6	11,646	.58	7.90	137.0	31.91
Total	1,766.4	12,405	1.49	10.46	159.5	39.58
1988						
Kentucky	1,215.3	12,702	1.03	9.18	164.4	41.75
West Virginia	966.4	12,115	.84	12.63	175.6	42.54
Colombia	686.9	11,838	.70	6.72	144.4	34.19
Total	2,868.6	12,297	.89	9.76	163.5	40.21
1989						
Kentucky	1,500.3	12,590	1.54	9.76	168.8	42.51
West Virginia	607.7	12,095	.93	12.84	189.4	45.82
Colombia	803.5	11,978	.74	7.36	173.4	41.54
Venezuela	37.1	13,461	.48	4.00	141.0	37.96
Total	2,948.6	12,332	1.18	9.67	173.8	42.87
1990						
Kentucky	1,622.3	12,629	1.03	9.28	174.2	44.00
West Virginia	784.8	12,246	1.03	11.80	187.4	45.91
Colombia	1,007.7	11,938	.74	6.58	171.6	40.96
Venezuela	40.1	12,288	.77	11.50	170.7	41.95
Total	3,454.9	12,336	.94	9.09	176.4	43.52
1991						
Kentucky	1,475.3	12,802	1.10	8.96	166.4	42.59
Ohio	240.2	12,530	3.74	9.20	163.8	41.04
West Virginia	643.0	12,102	.85	11.61	200.3	48.47
Colombia	1,582.6	11,978	.73	7.04	153.1	36.68
Venezuela	42.2	12,913	.56	8.90	126.9	32.77
Total	3,983.4	12,346	1.07	8.64	166.0	41.00
1992						
January - March						
Kentucky	413.3	12,844	1.14	8.72	160.9	41.32
West Virginia	167.7	12,051	.78	12.84	207.7	50.05
Colombia	206.5	11,945	.73	7.26	156.5	37.40
Total	787.6	12,439	.96	9.21	169.4	42.15
April - June						
Kentucky	358.1	12,835	1.16	8.44	163.2	41.89
West Virginia	158.7	12,026	.81	12.10	209.3	50.34
Colombia	402.8	11,867	.71	7.33	152.4	36.17
Total	919.5	12,271	.91	8.58	166.4	40.84
July - September						
Kentucky	405.6	12,856	1.18	8.20	158.1	40.66
West Virginia	157.5	12,094	.88	12.55	204.0	49.35
Colombia	441.6	11,906	.70	6.88	151.6	36.09
Total	1,004.8	12,319	.92	8.30	162.4	40.01
October - December						
Kentucky	386.4	12,787	1.24	8.33	158.8	40.61
West Virginia	158.5	12,084	.81	12.81	178.1	43.04
Colombia	367.6	11,890	.70	6.28	142.0	33.77
Total	912.5	12,303	.95	8.28	155.6	38.28
Year to Date						
Kentucky	1,563.4	12,831	1.18	8.43	160.2	41.11
West Virginia	642.4	12,063	.82	12.58	199.9	48.22
Colombia	1,418.6	11,897	.71	6.91	150.0	35.70
Total	3,624.4	12,329	.93	8.57	163.2	40.25
Company and Plant: Mississippi Power (Southern Co), Daniel						
1980						
Colorado	754.6	11,530	0.56	9.55	238.7	55.05
Utah	405.1	11,987	.52	7.77	250.0	59.93
Total	1,159.7	11,690	.54	8.93	242.7	56.75

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1992 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Mississippi Power (Southern Co), Daniel						
1981						
Colorado	755.6	11,579	0.59	9.97	260.7	60.37
Utah	584.3	12,062	.55	7.62	278.6	67.21
Total	1,339.9	11,789	.57	8.95	268.7	63.36
1982						
Alabama	.1	11,531	1.00	13.90	100.7	23.22
Colorado	804.5	11,573	.61	9.40	286.5	66.32
Utah	815.0	12,076	.53	7.30	305.6	73.80
Total	1,619.6	11,826	.57	8.34	296.3	70.08
1983						
Colorado	875.6	11,648	.61	8.82	297.5	69.31
Utah	684.7	12,093	.54	7.18	315.1	76.21
Total	1,560.3	11,844	.58	8.10	305.4	72.34
1984						
Colorado	1,037.1	11,668	.63	8.67	305.7	71.33
Utah	608.2	12,103	.53	7.79	319.8	77.41
Total	1,645.3	11,829	.59	8.34	311.0	73.58
1985						
Colorado	1,182.0	11,725	.54	8.07	319.8	74.99
Utah	424.7	12,237	.53	8.03	329.6	80.67
Total	1,606.7	11,860	.54	8.06	322.5	76.49
1986						
Colorado	1,047.8	11,700	.54	7.85	322.0	75.34
Utah	226.4	12,126	.52	8.47	330.7	80.21
West Virginia	104.7	13,380	.72	5.95	195.3	52.25
Total	1,378.9	11,898	.55	7.81	312.6	74.39
1987						
Kentucky	1,130.2	13,002	.69	7.23	200.6	52.16
Virginia	138.9	13,400	.69	6.87	193.9	51.96
West Virginia	708.3	13,072	.67	7.72	213.7	55.86
Colombia	65.9	12,206	.49	4.27	173.5	42.95
Total	2,043.3	13,028	.68	7.28	203.8	53.11
1988						
Kentucky	1,911.1	13,007	.70	6.96	193.9	50.45
Virginia	64.2	13,458	.71	6.54	166.7	44.86
West Virginia	330.6	12,702	.68	9.29	159.2	40.43
Total	2,305.9	12,976	.70	7.28	188.3	48.86
1989						
Kentucky	1,105.2	13,031	.71	6.72	179.5	46.78
Total	1,105.2	13,031	.71	6.72	179.5	46.78
1990						
Kentucky	1,221.9	12,996	.72	6.95	166.1	43.17
Total	1,221.9	12,996	.72	6.95	166.1	43.17
1991						
Kentucky	1,306.9	12,952	.72	7.41	171.3	44.38
Montana	105.5	9,344	.30	4.10	145.2	27.14
Total	1,412.3	12,682	.69	7.16	169.9	43.09
1992						
January - March						
Kentucky	148.1	13,017	.73	7.53	169.8	44.20
Montana	82.2	9,383	.30	4.15	136.0	25.51
Total	230.3	11,720	.58	6.33	160.1	37.53
April - June						
Kentucky	267.2	13,020	.73	7.06	169.1	44.02
Total	267.2	13,020	.73	7.06	169.1	44.02
July - September						
Kentucky	256.5	12,937	.73	7.51	170.3	44.05
Wyoming	58.9	8,767	.35	4.93	152.9	26.81
Total	315.4	12,158	.66	7.03	167.9	40.83
October - December						
Kentucky	138.8	12,988	.71	6.66	171.5	44.54
Wyoming	12.0	8,727	.30	4.88	153.6	26.81
Total	150.8	12,649	.68	6.52	170.5	43.13
Year to Date						
Kentucky	810.6	12,988	.73	7.22	170.0	44.15
Montana	82.2	9,383	.30	4.15	136.0	25.51
Wyoming	70.9	8,760	.34	4.92	153.0	26.81
Total	963.7	12,369	.66	6.79	166.9	41.29

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: New England Power (NEES), Brayton Point						
1980						
Kentucky	77.3	13,708	1.17	4.72	197.5	54.15
Pennsylvania	100.2	13,080	1.26	8.61	191.8	50.17
Virginia	182.9	13,510	1.19	6.39	199.6	53.92
West Virginia	273.1	13,300	1.09	8.05	191.4	50.91
Total	633.5	13,376	1.16	7.26	194.6	52.06
1981						
Pennsylvania	176.6	13,030	1.44	7.36	243.7	63.51
Virginia	550.2	13,031	1.37	9.33	251.4	65.52
West Virginia	317.6	13,142	.98	8.85	239.6	62.97
Total	1,044.4	13,065	1.26	8.85	246.5	64.41
1982						
Pennsylvania	286.8	13,071	1.41	7.10	247.9	64.81
Virginia	895.6	13,134	1.28	7.32	255.5	67.11
West Virginia	977.0	13,142	1.15	8.34	244.3	64.20
Total	2,159.4	13,129	1.24	7.75	249.4	65.49
1983						
Pennsylvania	3.9	13,384	1.37	5.60	239.5	64.11
Virginia	689.1	13,221	1.21	7.05	235.4	62.24
West Virginia	1,114.3	13,112	1.19	8.72	219.1	57.45
Total	1,807.3	13,154	1.20	8.08	225.3	59.29
1984						
Kentucky	30.6	13,148	.76	6.20	188.6	49.59
Pennsylvania	39.8	13,346	1.34	6.70	194.9	52.02
Virginia	1,268.3	13,279	1.06	7.43	213.5	56.70
West Virginia	1,034.2	13,206	1.09	8.04	207.8	54.89
Canada	40.0	12,846	.53	8.90	199.4	51.23
Total	2,412.9	13,240	1.06	7.69	210.2	55.66
1985						
Pennsylvania	142.3	13,250	1.35	6.48	186.7	49.48
Virginia	695.0	13,282	1.10	7.30	198.8	52.82
West Virginia	1,232.5	13,263	1.12	8.25	191.3	50.74
Canada	42.7	12,622	.45	9.61	179.0	45.19
Total	2,112.5	13,256	1.12	7.64	193.2	51.23
1986						
Pennsylvania	121.8	13,402	1.24	6.23	170.6	45.72
Virginia	807.4	13,249	1.21	7.09	188.5	49.95
West Virginia	1,344.7	13,198	1.13	8.45	166.3	43.89
Total	2,273.9	13,227	1.17	7.85	174.4	46.14
1987						
Kentucky	21.0	12,838	.81	9.65	152.4	39.13
Maryland	78.3	13,171	1.24	8.89	146.9	38.69
Pennsylvania	106.4	13,209	1.18	7.13	159.6	42.15
Virginia	919.4	13,096	1.18	7.62	161.9	42.39
West Virginia	1,182.8	13,021	1.11	9.23	155.4	40.48
Colombia	29.0	11,928	.72	7.15	132.5	31.61
Total	2,336.9	13,049	1.14	8.47	157.6	41.13
1988						
Maryland	125.8	13,063	1.25	9.10	154.8	40.45
Pennsylvania	7.5	12,983	1.07	8.65	159.5	41.42
Virginia	1,127.2	13,097	1.18	7.91	158.7	41.58
West Virginia	1,294.0	13,058	1.22	8.92	156.0	40.74
Total	2,554.5	13,075	1.20	8.48	157.1	41.09
1989						
Kentucky	21.1	12,825	.89	9.12	137.6	35.29
Pennsylvania	520.3	13,060	1.47	9.49	157.7	41.20
Virginia	763.3	13,007	1.20	7.63	157.3	40.91
West Virginia	1,258.2	12,995	1.24	8.65	153.4	39.87
Colombia	27.8	12,617	.67	9.09	167.1	42.17
Total	2,590.7	13,006	1.26	8.52	155.4	40.43
1990						
Kentucky	12.5	12,600	.94	7.07	172.9	43.57
Maryland	40.1	13,684	1.02	6.61	185.2	50.69
Pennsylvania	247.9	12,996	1.43	9.46	166.1	43.18
Virginia	898.8	13,018	1.26	8.37	173.9	45.28
West Virginia	1,121.3	13,053	1.25	8.41	166.2	43.39
Colombia	30.1	12,837	.76	8.70	177.3	45.52
Venezuela	69.8	12,773	.61	7.39	181.0	46.23
Total	2,420.5	13,032	1.24	8.44	170.0	44.30

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: New England Power (NEES), Brayton Point						
1991						
Kentucky	0.5	12,970	0.75	8.49	174.6	45.29
Pennsylvania	33.6	13,164	1.32	9.03	166.9	43.94
Virginia	742.1	13,260	1.06	7.23	173.1	45.91
West Virginia	1,852.8	13,083	1.20	8.50	170.7	44.66
Venezuela	83.7	13,390	.77	7.55	167.3	44.81
Total	2,712.7	13,142	1.15	8.13	171.2	45.00
1992						
January - March						
Virginia	87.2	13,021	1.07	7.52	171.6	44.69
West Virginia	382.5	13,089	1.20	8.25	165.3	43.27
Venezuela	70.0	13,495	.74	7.14	166.9	45.05
Total	539.7	13,131	1.12	7.99	166.5	43.73
April - June						
Kentucky	.1	12,191	.69	8.45	176.4	43.01
Virginia	108.0	13,033	1.16	7.75	174.2	45.41
West Virginia	518.3	13,140	1.12	8.24	169.0	44.42
Venezuela	34.4	13,378	.76	7.25	166.8	44.63
Total	660.8	13,134	1.10	8.11	169.7	44.59
July - September						
Kentucky	9.9	12,938	.63	6.45	170.7	44.17
Virginia	2.7	13,232	1.11	7.35	174.5	46.18
West Virginia	631.1	12,909	1.03	8.81	168.7	43.56
Total	643.7	12,911	1.03	8.77	168.8	43.58
October - December						
Kentucky	.1	13,273	.81	6.44	186.0	49.38
West Virginia	678.0	13,032	1.12	8.38	168.4	43.90
Venezuela	24.6	13,027	.77	7.92	157.7	41.09
Total	702.7	13,032	1.10	8.36	168.0	43.80
Year to Date						
Kentucky	10.1	12,934	.63	6.47	170.9	44.21
Virginia	197.9	13,030	1.12	7.64	173.1	45.11
West Virginia	2,209.9	13,032	1.11	8.45	168.1	43.81
Venezuela	129.0	13,375	.75	7.32	165.2	44.18
Total	2,546.9	13,049	1.09	8.32	168.3	43.94
Company and Plant: New England Power (NEES), Salem Harbor						
1982						
Pennsylvania	372.9	13,247	1.38	6.13	252.9	67.01
Virginia	133.1	13,167	1.28	7.37	262.2	69.04
West Virginia	36.1	13,340	1.39	8.26	259.6	69.26
Total	542.1	13,234	1.36	6.58	255.6	67.66
1983						
Pennsylvania	606.5	13,308	1.32	5.87	246.9	65.70
Virginia	37.1	13,740	1.41	5.60	205.0	56.33
Total	643.6	13,333	1.33	5.85	244.4	65.16
1984						
Pennsylvania	507.2	13,341	1.33	6.11	220.7	58.89
Virginia	248.1	13,345	1.06	6.89	217.8	58.14
Total	755.3	13,343	1.24	6.37	219.8	58.64
1985						
Kentucky	.1	13,443	.86	8.10	183.2	49.26
Pennsylvania	388.6	13,357	1.32	6.34	197.6	52.79
Virginia	391.7	13,279	1.15	7.18	206.0	54.70
West Virginia	111.4	13,445	1.07	7.58	187.7	50.46
Total	891.8	13,334	1.22	6.87	200.0	53.34
1986						
Pennsylvania	235.6	13,362	1.27	6.42	179.0	47.85
Virginia	242.0	13,210	1.22	6.99	191.2	50.51
West Virginia	433.8	13,144	1.14	8.60	163.6	43.01
Total	911.4	13,218	1.20	7.61	175.0	46.25
1987						
Pennsylvania	137.1	13,265	1.31	6.03	159.7	42.36
Virginia	279.9	13,073	1.16	7.79	166.4	43.52
West Virginia	237.1	13,176	1.18	9.07	156.9	41.34
Total	654.1	13,151	1.20	7.89	161.5	42.49

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1992 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: New England Power (NEES), Salem Harbor						
1988						
Maryland	5.2	13,324	1.12	7.76	152.8	40.71
Pennsylvania	14.2	13,291	1.64	8.08	156.1	41.50
Virginia	383.8	13,063	1.15	8.22	165.3	43.20
West Virginia	447.8	13,024	1.22	9.19	159.2	41.48
Total	851.0	13,048	1.19	8.72	161.9	42.25
1989						
Kentucky	1.7	12,825	.89	9.12	137.9	35.37
Pennsylvania	15.8	13,073	1.51	9.29	162.8	42.56
Virginia	467.9	12,919	1.25	7.98	158.8	41.02
West Virginia	334.2	12,931	1.09	8.43	159.7	41.29
Colombia	35.0	12,201	.58	4.61	196.4	47.93
Total	854.6	12,897	1.16	8.05	160.6	41.43
1990						
Kentucky	36.5	12,598	.94	9.29	182.3	45.93
Pennsylvania	224.3	13,137	1.40	8.30	177.1	46.53
Virginia	200.6	13,588	.97	6.17	172.6	46.92
West Virginia	347.3	13,133	1.30	7.65	175.9	46.20
Colombia	74.7	12,176	.66	5.07	195.7	47.65
Total	883.4	13,135	1.18	7.33	177.2	46.56
1991						
Virginia	120.6	13,938	.77	4.26	172.1	47.97
West Virginia	760.4	13,102	1.44	9.66	171.9	45.05
Total	881.0	13,216	1.35	8.92	172.0	45.45
1992						
January - March						
West Virginia	282.5	13,169	1.49	9.39	168.2	44.30
Canada	32.8	13,569	1.40	3.82	174.9	47.46
Total	315.3	13,211	1.48	8.81	168.9	44.83
April - June						
West Virginia	161.6	13,193	1.47	9.35	165.3	43.61
Total	161.6	13,193	1.47	9.35	165.3	43.61
July - September						
West Virginia	200.2	13,039	1.38	9.54	168.0	43.82
Total	200.2	13,039	1.38	9.54	168.0	43.82
October - December						
Pennsylvania	40.2	13,193	1.26	6.80	162.3	42.82
West Virginia	118.8	13,107	1.48	9.71	164.9	43.23
Colombia	34.8	12,893	.58	7.02	145.3	37.47
Total	193.8	13,086	1.27	8.63	160.9	42.11
Year to Date						
Pennsylvania	40.2	13,193	1.26	6.80	162.3	42.82
West Virginia	763.1	13,130	1.46	9.47	167.0	43.86
Canada	32.8	13,569	1.40	3.82	174.9	47.46
Colombia	34.8	12,893	.58	7.02	145.3	37.47
Total	870.9	13,140	1.41	9.04	166.3	43.70
Company and Plant: Ohio Edison, Burger Plant						
1980						
Ohio	945.5	12,298	4.02	11.68	176.9	43.52
West Virginia	45.6	13,067	2.91	8.46	125.1	32.70
Total	991.1	12,334	3.97	11.53	174.4	43.02
1981						
Ohio	824.0	12,484	4.04	10.33	187.5	46.81
Total	824.0	12,484	4.04	10.33	187.5	46.81
1982						
Ohio	1,048.1	12,449	3.91	10.34	190.7	47.48
Total	1,048.1	12,449	3.91	10.34	190.7	47.48
1983						
Kentucky	1.2	12,000	4.20	10.00	141.7	34.01
Ohio	830.3	12,245	3.39	10.96	142.6	34.93
Total	831.5	12,245	3.39	10.96	142.6	34.93
1984						
Ohio	1,148.8	12,066	3.30	10.96	136.2	32.86
West Virginia	34.7	11,914	3.81	12.17	116.7	27.80
Total	1,183.5	12,062	3.32	11.00	135.6	32.72

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Ohio Edison, Burger Plant						
1985						
Ohio	1,146.8	11,975	3.03	11.88	133.8	32.05
Total	1,146.8	11,975	3.03	11.88	133.8	32.05
1986						
Ohio	1,185.3	12,108	2.88	11.52	131.9	31.93
Total	1,185.3	12,108	2.88	11.52	131.9	31.93
1987						
Kentucky	7.6	12,202	.83	12.10	121.4	29.63
Ohio	1,259.5	12,084	2.88	11.49	121.4	29.34
Total	1,267.1	12,085	2.87	11.50	121.4	29.34
1988						
Ohio	1,042.2	11,894	2.92	11.54	116.0	27.61
Total	1,042.2	11,894	2.92	11.54	116.0	27.61
1989						
Ohio	935.3	11,810	3.06	11.31	107.0	25.28
Pennsylvania	239.8	12,053	2.46	12.07	142.8	34.42
West Virginia	60.6	11,905	3.10	11.54	105.3	25.08
Total	1,235.7	11,862	2.95	11.47	114.0	27.05
1990						
Kentucky	3.2	11,718	1.11	11.40	129.2	30.28
Ohio	991.0	11,829	3.09	12.00	110.8	26.22
Pennsylvania	228.5	11,993	2.62	11.94	149.6	35.89
West Virginia	82.7	11,652	3.07	12.73	108.9	25.39
Total	1,305.4	11,846	3.00	12.03	117.6	27.87
1991						
Ohio	779.1	12,087	3.52	11.21	111.8	27.02
Pennsylvania	194.3	12,095	2.64	11.89	153.2	37.06
West Virginia	11.6	11,703	3.54	11.84	100.0	23.40
Wyoming	12.2	8,570	.44	5.57	132.8	22.77
Total	997.2	12,041	3.31	11.28	119.9	28.88
1992						
January - March						
Ohio	313.0	12,114	3.52	11.34	110.2	26.70
Pennsylvania	64.0	12,128	2.76	11.21	143.9	34.91
Wyoming	12.5	8,418	.37	6.40	126.7	21.33
Total	389.5	11,997	3.29	11.16	116.2	27.88
April - June						
Kentucky	41.4	12,143	.84	10.37	130.5	31.69
Ohio	180.4	12,075	3.57	11.90	109.0	26.33
Pennsylvania	36.5	12,186	2.73	11.53	134.5	32.79
Wyoming	23.7	8,542	.28	5.10	122.4	20.91
Total	282.0	11,802	2.79	11.06	116.5	27.50
July - September						
Ohio	222.9	12,140	3.65	11.14	100.6	24.43
Pennsylvania	18.5	11,756	3.02	13.67	89.8	21.10
Wyoming	17.8	8,365	.41	5.40	114.4	19.14
Total	259.2	11,853	3.39	10.92	100.5	23.83
October - December						
Ohio	247.4	12,200	3.75	10.83	97.3	23.74
Pennsylvania	9.2	11,839	3.35	12.19	89.2	21.12
Wyoming	7.3	8,401	.39	5.30	114.7	19.27
Indonesia	13.1	9,587	.14	1.20	166.9	32.00
Total	277.0	11,964	3.48	10.28	100.0	23.92
Year to Date						
Kentucky	41.4	12,143	.84	10.37	130.5	31.69
Ohio	963.7	12,135	3.62	11.27	104.4	25.35
Pennsylvania	128.2	12,070	2.83	11.73	129.8	31.32
Wyoming	61.3	8,449	.35	5.48	120.1	20.29
Indonesia	13.1	9,587	.14	1.20	166.9	32.00
Total	1,207.7	11,913	3.24	10.88	109.2	26.01
Company and Plant: Public Serv Co of New Hampshire, Merrimack						
1980						
Pennsylvania	140.4	12,993	2.30	7.67	162.4	42.20
West Virginia	911.9	13,472	2.58	7.82	159.4	42.96
Total	1,052.3	13,408	2.54	7.80	159.8	42.86

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Public Serv Co of New Hampshire, Merrimack						
1981						
West Virginia	858.0	13,476	2.52	7.73	171.5	46.23
Total	858.0	13,476	2.52	7.73	171.5	46.23
1982						
Pennsylvania	25.8	12,698	1.59	8.57	179.8	45.66
West Virginia	836.2	13,545	2.43	7.92	188.6	51.11
Total	862.0	13,520	2.40	7.94	188.4	50.94
1983						
West Virginia	1,016.0	13,547	2.52	7.80	193.8	52.50
Total	1,016.0	13,547	2.52	7.80	193.8	52.50
1984						
West Virginia	1,187.9	13,547	2.55	7.71	199.9	54.17
Total	1,187.9	13,547	2.55	7.71	199.9	54.17
1985						
Pennsylvania	36.9	13,414	1.44	6.51	196.1	52.62
West Virginia	1,014.6	13,551	2.49	7.53	194.6	52.75
Total	1,051.5	13,546	2.45	7.49	194.7	52.75
1986						
Kentucky	80.1	13,527	1.26	4.82	223.6	60.50
West Virginia	718.4	13,517	2.34	7.55	191.7	51.82
Total	798.5	13,518	2.23	7.28	194.9	52.69
1987						
Virginia	6.6	14,114	.86	5.00	193.2	54.54
West Virginia	928.9	13,474	2.41	7.34	191.8	51.68
Canada	14.1	13,100	1.80	8.50	171.0	44.80
Total	949.6	13,473	2.39	7.34	191.5	51.60
1988						
Pennsylvania	147.7	13,150	1.64	6.54	173.4	45.61
West Virginia	998.3	13,374	2.47	7.22	176.6	47.24
Canada	46.3	13,397	2.10	5.61	175.9	47.14
Total	1,192.3	13,347	2.36	7.07	176.2	47.04
1989						
Ohio	16.3	12,534	3.00	7.20	182.7	45.80
Pennsylvania	220.8	13,201	1.30	6.56	174.3	46.02
Virginia	42.0	14,014	1.19	5.27	216.9	60.79
West Virginia	744.9	13,404	2.29	6.94	168.2	45.08
Total	1,024.0	13,371	2.04	6.79	171.8	45.94
1990						
Pennsylvania	273.5	13,308	1.36	6.37	178.7	47.55
West Virginia	697.5	13,386	2.43	7.19	172.9	46.29
Total	971.0	13,364	2.13	6.96	174.5	46.65
1991						
Pennsylvania	740.1	13,249	1.51	6.57	176.2	46.68
West Virginia	219.6	13,411	2.41	6.82	165.9	44.48
Total	959.7	13,286	1.71	6.63	173.8	46.18
1992						
January - March						
Pennsylvania	179.2	13,290	1.60	6.07	172.0	45.72
West Virginia	70.2	13,399	2.01	7.01	161.2	43.20
Total	249.4	13,320	1.71	6.33	168.9	45.01
April - June						
Pennsylvania	131.4	13,324	1.44	6.15	169.8	45.26
West Virginia	90.6	13,408	2.20	6.82	161.3	43.24
Total	222.0	13,359	1.75	6.42	166.3	44.43
July - September						
Pennsylvania	181.3	13,244	1.61	6.43	171.2	45.36
West Virginia	100.5	13,414	2.44	7.28	161.2	43.26
Total	281.8	13,305	1.90	6.74	167.6	44.61
October - December						
Pennsylvania	179.6	13,224	1.59	6.49	172.5	45.61
West Virginia	70.5	13,445	2.40	6.54	161.8	43.51
Total	250.1	13,286	1.82	6.50	169.4	45.02
Year to Date						
Pennsylvania	671.5	13,266	1.57	6.30	171.5	45.50
West Virginia	331.8	13,416	2.27	6.94	161.4	43.30
Total	1,003.3	13,316	1.80	6.51	168.1	44.77

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1992 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Public Serv Co of New Hampshire, Schiller						
1984						
Virginia	19.5	13,135	1.03	7.80	214.8	56.43
Total	19.5	13,135	1.03	7.80	214.8	56.43
1985						
Virginia	381.2	13,193	1.02	8.12	218.4	57.63
Total	381.2	13,193	1.02	8.12	218.4	57.63
1986						
Virginia	143.6	13,007	1.00	8.38	222.9	57.99
West Virginia	10.2	13,705	.98	6.36	198.6	54.66
Total	153.8	13,058	1.00	8.24	221.2	57.77
1987						
Virginia	69.6	13,176	1.15	8.08	192.3	50.67
West Virginia	85.6	13,155	1.19	7.99	199.6	52.53
Canada	1.5	13,100	1.80	8.50	146.5	38.38
Colombia	9.2	11,825	.67	7.30	153.8	36.37
Total	165.9	13,090	1.15	7.99	193.8	50.73
1988						
Virginia	9.7	12,993	1.10	8.30	198.7	51.63
West Virginia	54.0	13,071	1.23	7.92	210.9	55.13
Canada	5.6	13,452	1.10	3.10	146.1	39.31
Total	69.3	13,091	1.20	7.58	203.7	53.36
1989						
West Virginia	40.0	13,043	.76	7.17	203.6	52.33
Total	40.0	13,043	.76	7.17	200.6	52.33
1990						
Kentucky	17.2	12,968	.88	6.60	201.2	52.20
Pennsylvania	21.9	13,072	1.31	6.51	184.1	48.13
West Virginia	116.9	13,030	.85	7.09	194.4	50.67
Canada	33.6	13,459	1.30	5.90	181.0	48.72
Venezuela	110.2	13,105	.49	4.82	187.7	49.19
Total	299.8	13,105	.80	6.05	190.0	49.81
1991						
West Virginia	117.5	13,284	.69	6.24	180.6	48.34
Venezuela	207.1	12,989	.52	5.65	173.6	45.10
Total	324.6	13,132	.58	5.86	176.2	46.28
1992						
January - March						
West Virginia	29.6	13,311	.65	6.17	182.9	48.68
Colombia	30.0	12,154	.63	5.49	156.2	37.35
Venezuela	28.3	12,879	.57	6.92	172.5	44.43
Total	87.9	12,777	.62	6.18	170.8	43.66
April - June						
West Virginia	15.0	13,290	.67	5.85	182.7	48.56
Total	15.0	13,290	.67	5.85	182.7	48.56
July - September						
West Virginia	29.1	13,163	.84	6.87	171.6	45.17
Total	29.1	13,163	.84	6.87	171.6	45.17
October - December						
Pennsylvania	8.3	13,080	1.46	6.25	173.0	45.26
West Virginia	14.7	13,405	.77	6.72	168.7	45.23
Colombia	18.4	12,876	.59	7.65	158.9	40.92
Venezuela	6.0	12,891	.64	6.02	146.9	37.87
Total	47.4	13,073	.80	6.91	163.0	42.63
Year to Date						
Pennsylvania	8.3	13,080	1.46	6.25	173.0	45.26
West Virginia	88.4	13,274	.74	6.44	176.8	46.93
Colombia	48.4	12,428	.61	6.31	157.2	39.08
Venezuela	34.3	12,881	.58	6.76	168.0	43.29
Total	179.4	12,962	.71	6.46	169.9	44.04
Company and Plant: Public Serv Electric & Gas Co, Mercer						
1990						
Georgia	5.1	13,739	0.89	5.79	215.1	59.10
Pennsylvania	90.2	13,190	1.30	8.11	185.0	48.80
Tennessee	.4	13,443	1.04	7.10	208.7	56.11
Virginia	510.0	13,463	1.21	6.88	211.7	57.01
West Virginia	365.3	13,262	1.23	8.02	187.9	49.84
Total	971.0	13,363	1.22	7.42	200.4	53.56

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Public Serv Electric & Gas Co, Mercer						
1981						
Kentucky	1.5	13,125	1.32	5.73	254.1	66.71
Pennsylvania	151.0	13,231	1.31	6.70	219.4	58.05
Virginia	502.8	13,400	1.20	6.99	236.6	63.40
West Virginia	410.5	13,365	1.15	7.23	213.6	57.10
Total	1,065.8	13,362	1.20	7.04	225.4	60.22
1982						
Kentucky	.1	13,018	1.06	7.00	242.3	63.09
Pennsylvania	113.0	13,245	1.25	6.39	220.3	58.36
Virginia	534.4	13,481	.90	6.89	243.0	65.51
West Virginia	493.7	13,356	1.18	7.06	224.0	59.84
Total	1,141.2	13,403	1.06	6.91	232.6	62.35
1983						
Virginia	673.0	13,504	.97	6.51	216.7	58.52
West Virginia	549.1	13,427	1.11	6.87	208.4	55.97
Total	1,222.1	13,469	1.03	6.67	213.0	57.37
1984						
Virginia	735.2	13,430	.98	6.76	212.9	57.17
West Virginia	552.1	13,503	1.12	6.72	198.1	53.51
Total	1,287.3	13,461	1.04	6.75	206.5	55.60
1985						
Kentucky	.5	13,436	1.45	8.50	176.4	47.40
Pennsylvania	7.6	13,428	1.22	6.70	187.6	50.38
Virginia	703.0	13,507	1.06	6.37	204.3	55.19
West Virginia	389.3	13,469	1.09	6.97	188.0	50.65
Total	1,100.4	13,493	1.07	6.59	198.4	53.55
1986						
Virginia	530.1	13,545	1.04	6.03	198.9	53.87
West Virginia	258.0	13,333	1.05	7.31	185.8	49.56
Total	788.1	13,476	1.04	6.45	194.6	52.46
1987						
Virginia	647.2	13,594	1.01	5.96	194.2	52.81
West Virginia	146.9	13,268	1.07	8.69	184.8	49.04
Total	794.1	13,534	1.03	6.46	192.5	52.11
1988						
Virginia	883.0	13,719	.83	5.87	172.2	47.26
West Virginia	1.4	13,222	.70	9.26	162.2	42.90
Total	884.4	13,718	.83	5.87	172.2	47.25
1989						
Kentucky	.3	12,997	.74	7.40	190.9	49.62
Virginia	1,121.6	13,878	.85	5.30	172.7	47.94
West Virginia	14.5	13,421	.87	7.32	173.3	46.51
Colombia	12.4	13,116	.57	4.20	175.8	46.12
Venezuela	28.6	13,149	.51	4.57	188.2	49.49
Total	1,177.4	13,846	.84	5.29	173.1	47.94
1990						
Kentucky	.1	13,045	.84	7.10	189.2	49.36
Virginia	962.9	14,108	.80	4.71	177.8	50.16
West Virginia	.4	13,079	.76	7.07	178.2	46.62
Total	963.4	14,108	.80	4.71	177.6	50.16
1991						
Kentucky	.2	13,063	.75	7.10	164.6	43.00
Virginia	734.7	14,183	.82	4.55	177.9	50.46
West Virginia	.1	12,860	.73	8.20	177.0	45.52
Total	735.0	14,182	.82	4.55	177.9	50.46
1992						
January - March						
Virginia	295.0	14,192	.84	4.45	178.3	50.62
West Virginia	.3	13,467	.71	6.90	163.3	43.98
Total	295.3	14,191	.84	4.46	178.3	50.61
April - June						
Virginia	266.1	14,167	.83	4.32	175.3	49.66
West Virginia	.4	13,229	.71	6.40	168.6	44.61
Total	266.5	14,166	.83	4.33	175.3	49.66
July - September						
Virginia	90.0	14,174	.81	4.41	175.4	49.71
West Virginia	6.7	13,966	.65	5.50	177.5	49.58
Total	96.7	14,160	.80	4.49	175.5	49.70

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1992 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Public Serv Electric & Gas Co, Mercer						
1992						
October - December						
Virginia	154.5	14,209	0.81	4.44	172.6	48.05
West Virginia	27.9	13,866	.64	5.73	169.3	46.95
Total	182.4	14,157	.78	4.64	172.1	48.73
Year to Date						
Virginia	805.6	14,185	.83	4.40	175.9	49.90
West Virginia	35.3	13,875	.64	5.71	170.8	47.40
Total	840.9	14,172	.82	4.46	175.7	49.80
Company and Plant: Savannah Electric and Power, McIntosh						
1982						
Kentucky	71.8	12,511	1.01	9.77	191.0	47.80
Virginia	264.3	12,789	.92	10.41	189.3	48.43
Total	336.1	12,730	.94	10.28	189.7	48.30
1983						
Kentucky	2.6	12,867	1.20	10.00	170.7	43.93
Tennessee	.9	12,828	.91	6.93	165.0	42.33
Virginia	371.4	13,079	.90	9.20	182.5	47.75
Total	374.9	13,077	.90	9.20	182.4	47.71
1984						
Kentucky	61.5	12,831	.92	9.36	188.6	48.39
Virginia	370.3	12,968	.90	9.25	189.5	49.15
Total	431.8	12,948	.90	9.26	189.4	49.04
1985						
Kentucky	133.8	13,000	1.00	6.26	180.3	46.89
Virginia	182.8	12,951	.85	9.09	176.5	45.70
Total	316.6	12,972	.92	7.89	178.1	46.20
1986						
Kentucky	166.0	12,878	.94	7.53	187.1	43.03
Virginia	248.7	12,896	.86	9.07	169.3	43.66
Total	414.8	12,889	.89	8.45	168.4	43.41
1987						
Kentucky	264.9	12,976	.79	7.75	165.1	42.84
Virginia	151.8	12,863	.83	9.05	163.0	41.94
Total	416.7	12,935	.81	8.23	164.3	42.51
1988						
Kentucky	461.6	12,905	.81	7.11	171.5	44.27
Total	461.6	12,905	.81	7.11	171.5	44.27
1989						
Kentucky	404.1	12,389	.95	8.93	177.0	43.85
Virginia	32.9	12,374	1.08	9.18	186.2	48.55
Colombia	16.2	13,189	.71	8.50	174.3	45.98
Total	453.1	12,416	.95	8.93	178.3	44.27
1990						
Kentucky	371.8	12,370	1.01	9.84	172.9	42.77
Total	371.8	12,370	1.01	9.84	172.9	42.77
1991						
Kentucky	117.7	12,323	1.29	9.83	153.4	37.81
Total	117.7	12,323	1.29	9.83	153.4	37.81
1992						
April - June						
Kentucky	27.7	12,422	1.09	9.17	147.5	36.65
Total	27.7	12,422	1.09	9.17	147.5	36.65
July - September						
Kentucky	64.8	12,306	1.38	10.32	154.6	38.06
Total	64.8	12,306	1.38	10.32	154.6	38.06
Year to Date						
Kentucky	92.5	12,341	1.29	9.98	152.5	37.64
Total	92.5	12,341	1.29	9.98	152.5	37.64
Company and Plant: Savannah Electric and Power, Port Wentworth						
1980						
Kentucky	255.4	12,165	0.84	11.92	165.4	40.23
Tennessee	68.5	12,256	1.22	11.97	162.4	39.82
Virginia	256.2	12,328	.97	11.65	161.3	39.77
Total	580.1	12,248	.94	11.81	163.2	39.98

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Savannah Electric and Power, Port Wentworth						
1981						
Kentucky	259.2	12,116	0.98	12.05	190.9	48.26
Tennessee	154.1	12,176	1.12	10.37	184.6	44.97
Virginia	265.8	12,209	.98	12.02	190.4	46.49
West Virginia	3.1	12,436	1.18	11.54	179.5	44.65
Total	682.3	12,167	1.01	11.66	189.2	46.06
1982						
Kentucky	110.5	12,311	.93	10.53	188.1	46.30
Tennessee	25.0	13,116	1.03	7.72	205.7	53.97
Virginia	291.3	12,780	.92	9.57	193.7	49.50
Total	426.8	12,678	.93	9.71	193.0	48.94
1983						
Tennessee	5.9	12,886	1.32	7.70	172.4	44.43
Virginia	413.4	13,145	1.00	8.35	178.5	46.93
Total	419.2	13,141	1.00	8.34	178.4	46.90
1984						
Kentucky	67.5	12,565	.88	8.99	192.9	48.48
Tennessee	30.1	12,564	1.25	9.65	189.8	47.70
Virginia	439.3	12,982	.97	8.65	186.9	48.53
Total	536.9	12,906	.97	8.75	187.8	48.48
1985						
Kentucky	39.2	12,800	.91	8.54	174.9	44.78
Tennessee	79.7	12,454	1.32	10.12	179.8	44.79
Virginia	324.6	13,009	1.04	8.85	178.5	46.45
West Virginia	10.8	13,684	.80	5.65	176.7	48.37
Total	454.3	12,910	1.07	8.97	176.4	46.06
1986						
Tennessee	.3	13,043	.91	7.70	137.7	35.92
Virginia	435.3	12,983	.82	9.11	168.2	43.67
West Virginia	8.0	12,439	.99	9.45	167.8	41.75
Total	443.5	12,974	.83	9.11	166.1	43.63
1987						
Virginia	360.3	13,132	.93	9.16	164.3	43.16
Total	360.3	13,132	.93	9.16	164.3	43.16
1988						
Kentucky	37.7	12,965	.84	7.70	168.7	43.74
Virginia	371.0	13,008	.90	8.98	168.6	43.86
Total	408.7	13,004	.89	8.87	168.6	43.85
1989						
Kentucky	160.9	12,714	.94	9.20	172.4	43.84
Tennessee	7.7	12,834	1.08	7.46	183.2	47.02
Virginia	333.2	12,920	1.04	8.70	173.1	44.72
Colombia	7.0	13,189	.71	8.40	168.5	44.45
Total	508.8	12,858	1.00	8.84	173.0	44.48
1990						
Virginia	417.8	12,946	1.06	8.66	166.9	43.21
Total	417.8	12,946	1.06	8.66	166.9	43.21
1991						
Kentucky	10.3	12,308	.97	10.84	167.7	41.27
Virginia	178.6	12,665	.87	9.55	165.2	41.85
Total	189.0	12,646	.87	9.63	165.3	41.82
1992						
January - March						
Virginia	2.5	12,299	.92	10.80	163.5	40.22
Total	2.5	12,299	.92	10.80	163.5	40.22
July - September						
Kentucky	3.0	11,947	1.36	13.60	132.2	31.59
Virginia	37.8	12,145	1.01	12.31	144.1	35.01
Total	40.8	12,130	1.04	12.41	143.3	34.76
October - December						
Virginia	20.2	12,867	.94	11.46	153.2	39.44
Total	20.2	12,867	.94	11.46	153.2	39.44
Year to Date						
Kentucky	3.0	11,947	1.36	13.60	132.2	31.59
Virginia	60.5	12,392	.98	11.96	148.1	36.71
Total	63.5	12,371	1.00	12.04	147.4	36.46

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1992 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Takoma Dept. of Public Utilities, Steam No.2						
1991						
Washington	0.1	12,846	0.70	14.50	170.0	43.68
Canada	26.9	9,994	.46	12.76	209.2	41.82
Total	27.0	10,004	.46	12.76	209.0	41.82
1992						
January - March						
Canada	5.0	9,814	.41	11.97	215.0	42.20
Total	5.0	9,814	.41	11.97	215.0	42.20
April - June						
Washington	2.0	12,570	.72	13.74	151.9	38.18
Total	2.0	12,570	.72	13.74	151.9	38.18
July - September						
Washington	.3	11,027	.71	15.90	174.0	38.37
Wyoming	2.0	8,846	.22	4.67	181.0	32.02
Canada	10.3	10,079	.42	13.42	214.5	43.25
Total	12.6	9,903	.39	12.06	208.6	41.31
October - December						
Montana	4.0	9,492	.40	4.25	169.0	32.08
Total	4.0	9,492	.40	4.25	169.0	32.08
Year to Date						
Montana	4.0	9,492	.40	4.25	169.0	32.08
Washington	2.3	12,366	.72	14.03	154.5	38.21
Wyoming	2.0	8,846	.22	4.67	181.0	32.02
Canada	15.3	9,993	.42	12.95	214.7	42.90
Total	23.7	10,043	.43	10.87	197.5	39.67
Company and Plant: Tampa Electric, Big Bend ³						
1990						
Illinois	44.8	11,000	3.00	9.50	169.8	37.35
Kentucky	2,418.9	11,559	3.02	11.17	145.0	33.51
Oklahoma	36.6	12,190	.60	8.10	175.5	42.79
Tennessee	39.9	11,300	1.40	12.00	199.2	45.03
Poland	179.5	11,300	1.40	12.00	169.7	38.36
Total	2,719.7	11,537	2.85	11.17	148.2	34.19
1991						
Illinois	120.1	11,000	3.00	13.49	151.1	33.23
Indiana	51.1	11,400	2.20	8.50	157.9	36.00
Kentucky	2,418.0	11,533	2.97	11.18	162.7	37.53
Missouri	26.0	12,390	.65	8.56	191.7	47.50
Oklahoma	234.5	12,445	.64	8.19	202.7	50.46
Total	2,849.6	11,591	2.74	10.96	166.0	38.47
1992						
Indiana	7.1	10,406	1.50	8.60	143.9	29.94
Kentucky	2,548.4	11,578	2.98	10.92	164.0	37.97
Oklahoma	317.0	12,699	.71	8.04	211.5	53.70
Texas	19.8	12,636	.66	8.57	209.5	52.93
Total	2,892.3	11,705	2.71	10.58	169.9	39.77
1993						
Illinois	22.2	11,705	3.00	11.00	132.4	31.00
Kentucky	2,996.6	11,563	3.03	11.08	167.6	38.75
Oklahoma	253.3	13,230	.70	6.91	191.3	50.63
Total	3,272.1	11,693	2.85	10.75	169.4	39.62
1994						
Colorado	32.2	11,876	.39	16.45	216.8	51.49
Illinois	460.4	11,276	2.94	10.30	141.6	31.98
Kentucky	3,459.3	11,849	2.58	9.40	178.5	42.31
Oklahoma	437.8	12,874	.59	6.74	184.8	47.59
Pennsylvania	1.6	13,000	1.50	8.00	119.2	31.00
Virginia	11.1	13,326	.56	4.38	174.1	46.39
Poland	109.1	12,624	.61	7.09	155.5	39.27
Total	4,511.6	11,913	2.36	9.22	175.3	41.77
1995						
Illinois	1,694.4	11,034	2.97	9.87	194.3	42.87
Kentucky	3,127.8	12,112	2.29	8.41	179.9	43.58
Oklahoma	170.7	12,826	.60	6.37	178.6	45.81
Virginia	114.0	13,353	.65	5.09	192.6	51.43
Total	5,106.9	11,806	2.42	8.75	184.6	43.60

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1992 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Tampa Electric, Big Bend ³						
1986						
Illinois	1,217.3	11,118	2.98	9.52	193.2	42.97
Indiana	16.4	11,087	2.36	11.20	92.5	20.51
Kentucky	3,537.4	12,241	2.20	7.95	183.4	44.91
Oklahoma	249.4	12,859	.58	6.28	190.9	49.09
Virginia	85.5	13,242	.69	6.36	199.7	52.89
West Virginia	74.9	13,097	2.51	9.05	182.3	47.75
Total	5,180.9	12,032	2.28	8.23	185.9	44.75
1987						
Illinois	1,151.2	11,483	2.82	9.25	165.2	37.94
Indiana	258.8	11,071	2.89	9.40	119.0	28.35
Kentucky	4,416.1	12,412	2.03	7.73	183.0	45.44
Oklahoma	416.7	12,397	.76	8.19	194.2	48.15
West Virginia	232.8	13,069	2.62	8.45	152.3	39.80
Total	6,475.7	12,216	2.15	8.13	177.3	43.31
1988						
Illinois	1,172.0	11,090	2.84	9.07	173.9	38.57
Indiana	91.1	11,043	2.79	9.32	118.6	28.19
Kentucky	3,984.0	12,392	2.13	7.72	170.0	42.12
Oklahoma	53.3	12,582	.69	7.16	202.0	50.84
West Virginia	705.1	13,132	2.52	8.14	154.5	40.57
Total	6,005.5	12,206	2.32	8.05	168.3	41.08
1989						
Illinois	939.0	11,058	2.85	9.08	179.2	39.64
Indiana	271.9	11,258	3.31	9.32	98.2	22.11
Kentucky	4,358.1	12,579	2.02	7.42	167.2	42.07
Tennessee	89.6	12,733	1.02	6.79	216.1	55.03
West Virginia	583.4	13,186	2.13	7.80	184.1	48.55
Total	6,220.1	12,349	2.19	7.78	168.4	41.60
1990						
Illinois	1,108.9	11,029	2.90	8.86	187.0	41.24
Indiana	431.1	11,226	3.21	9.12	107.8	24.20
Kentucky	3,901.7	12,490	2.14	7.63	177.2	44.26
Tennessee	126.3	12,780	1.11	6.60	215.2	55.00
Virginia	90.0	14,040	.83	4.57	161.4	45.32
West Virginia	434.5	13,239	2.08	7.40	194.7	51.54
Total	6,092.6	12,217	2.31	7.88	176.2	43.05
1991						
Illinois	1,112.9	11,046	2.95	9.16	193.5	42.74
Indiana	183.5	11,067	2.91	8.63	110.7	24.51
Kentucky	3,888.7	12,461	2.20	7.76	182.4	45.46
Pennsylvania	2.8	13,004	1.46	6.90	127.5	33.16
Tennessee	158.3	12,795	1.18	6.54	218.2	55.84
West Virginia	450.0	13,261	2.40	7.48	206.5	54.77
Indonesia	24.3	9,815	.07	1.20	227.3	44.62
Total	5,800.5	12,211	2.34	7.97	185.7	45.34
Company and Plant: Tampa Electric, Davant Transfer						
1992						
January - March						
Colorado	23.5	13,078	0.48	9.90	117.4	30.71
Illinois	326.0	11,368	2.89	8.84	181.7	41.32
Kentucky	864.7	12,390	2.31	7.93	180.3	44.67
Tennessee	45.9	12,920	1.13	6.15	216.4	55.92
Utah	31.6	11,596	.39	8.20	163.8	37.99
West Virginia	157.3	13,163	2.43	7.54	207.1	54.52
Total	1,448.9	12,255	2.34	8.07	183.5	44.97
April - June						
Colorado	41.1	13,167	.45	9.80	150.0	39.50
Illinois	321.4	11,219	2.75	8.70	189.2	42.45
Kentucky	920.3	12,356	2.37	7.70	170.8	42.21
Tennessee	65.1	12,924	1.19	6.02	219.4	56.72
West Virginia	136.1	13,156	2.33	7.39	205.0	53.94
Wyoming	12.3	8,887	.20	4.70	142.3	25.29
Total	1,496.3	12,203	2.33	7.85	179.2	43.74

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Tampa Electric, Davant Transfer						
1992						
July - September						
Colorado	116.1	13,068	0.44	10.10	151.2	39.52
Illinois	310.3	11,406	2.91	8.96	180.1	41.08
Kentucky	765.3	12,522	2.13	7.74	190.2	47.62
Tennessee	85.5	12,866	1.21	6.17	212.7	54.73
West Virginia	85.0	13,094	2.42	8.25	208.3	54.55
Total	1,362.2	12,371	2.12	8.15	187.2	46.32
October - December						
Illinois	266.5	11,130	2.94	9.10	171.3	38.12
Kentucky	808.4	12,406	2.38	8.29	175.7	43.59
Tennessee	72.3	12,761	1.20	6.41	222.6	56.82
West Virginia	73.5	13,096	2.31	7.60	209.6	54.89
Total	1,220.6	12,190	2.43	8.31	179.9	43.86
Year to Date						
Colorado	180.7	13,092	.45	10.01	146.5	38.37
Illinois	1,224.1	11,287	2.87	8.89	181.0	40.86
Kentucky	3,358.6	12,415	2.30	7.91	178.9	44.41
Tennessee	268.3	12,861	1.19	6.20	217.6	55.98
Utah	31.6	11,596	.39	8.20	163.8	37.99
West Virginia	451.9	13,137	2.38	7.64	207.1	54.41
Wyoming	12.3	8,887	.20	4.70	142.3	25.29
Total	5,526.0	12,255	2.30	8.08	182.5	44.73
Company and Plant: Tampa Electric, Gannon						
1980						
Alabama	3.4	12,737	1.51	8.30	200.3	51.02
Kentucky	997.9	12,385	1.29	8.60	211.3	52.34
Tennessee	68.5	12,522	1.48	9.15	188.4	47.19
Poland	57.4	12,144	.81	9.07	183.3	44.53
Total	1,127.2	12,382	1.28	8.65	206.5	51.63
1981						
Kentucky	1,060.0	12,282	1.32	8.64	233.4	57.34
Total	1,060.0	12,282	1.32	8.64	233.4	57.34
1982						
Kentucky	1,068.0	12,364	1.22	8.35	246.1	60.86
Total	1,068.0	12,364	1.22	8.35	246.1	60.86
1983						
Kentucky	1,161.2	13,016	1.13	5.98	250.8	65.29
Total	1,161.2	13,016	1.13	5.98	250.8	65.29
1984						
Alabama	11.2	12,407	.93	5.35	229.9	57.04
Kentucky	1,239.9	12,956	1.13	6.79	244.0	63.23
Tennessee	13.4	12,500	1.25	9.00	215.0	53.76
Poland	.2	13,238	.75	4.40	143.5	38.00
Total	1,264.7	12,946	1.13	6.80	243.6	63.07
1985						
Kentucky	757.5	12,812	1.09	6.74	238.3	61.08
Total	757.5	12,812	1.09	6.74	238.3	61.08
1986						
Kentucky	450.9	13,013	1.05	6.18	227.9	59.32
Total	450.9	13,013	1.05	6.18	227.9	59.32
1987						
Kentucky	471.7	12,952	1.09	6.18	232.3	60.17
Total	471.7	12,952	1.09	6.18	232.3	60.17
1988						
Kentucky	743.4	12,895	1.11	6.00	236.6	61.03
Total	743.4	12,895	1.11	6.00	236.6	61.03
1989						
Kentucky	453.6	12,769	1.12	6.45	232.1	59.27
Total	453.6	12,769	1.12	6.45	232.1	59.27
1990						
Kentucky	557.1	12,804	1.13	6.61	232.9	59.64
Total	557.1	12,804	1.13	6.61	232.9	59.64

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1992 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Tampa Electric, Gannon						
1991						
Kentucky	603.7	12,720	1.20	6.65	233.0	59.28
Total	603.7	12,720	1.20	6.65	233.0	59.28
1992						
January - March						
Kentucky	184.9	12,734	1.15	6.43	232.4	59.19
Total	184.9	12,734	1.15	6.43	232.4	59.19
April - June						
Kentucky	177.8	12,717	1.22	6.69	235.5	59.89
Total	177.8	12,717	1.22	6.69	235.5	59.89
July - September						
Kentucky	185.6	12,598	1.22	6.60	229.0	57.70
Total	185.6	12,598	1.22	6.60	229.0	57.70
October - December						
Kentucky	179.5	12,807	1.26	6.12	238.6	61.10
Total	179.5	12,807	1.26	6.12	238.6	61.10
Year to Date						
Kentucky	727.8	12,713	1.21	6.46	233.8	59.45
Total	727.8	12,713	1.21	6.46	233.8	59.45
Company and Plant: Virginia Electric and Power, Chesterfield						
1980						
Kentucky	756.0	12,770	1.29	8.36	192.9	49.26
Virginia	3.0	13,249	.93	8.50	169.0	44.79
Total	759.0	12,772	1.29	8.36	192.8	49.24
1981						
Kentucky	1,370.0	12,606	1.06	9.59	191.4	48.25
Tennessee	2.0	12,326	1.48	10.80	207.6	51.18
Virginia	55.0	12,663	.99	10.54	199.7	50.58
West Virginia	145.0	12,433	.86	10.28	202.4	50.33
Total	1,572.0	12,592	1.04	9.69	192.7	48.52
1982						
Kentucky	1,812.0	12,615	1.02	8.96	189.7	47.86
Virginia	95.0	12,636	.92	9.85	189.1	47.79
West Virginia	122.0	12,465	1.04	9.65	179.9	44.85
Total	2,029.0	12,607	1.01	9.05	189.1	47.67
1983						
Kentucky	1,184.0	12,572	1.04	8.92	157.3	39.56
Virginia	391.0	12,743	1.19	9.88	162.0	41.28
West Virginia	636.0	12,758	.90	8.88	155.6	39.71
Total	2,211.0	12,656	1.02	9.08	157.6	39.90
1984						
Kentucky	2,197.0	12,504	1.06	9.26	177.5	44.38
Pennsylvania	2.0	12,500	1.00	10.00	185.0	46.25
Virginia	599.0	12,590	1.21	9.88	179.9	45.31
West Virginia	163.0	12,620	.91	9.25	174.5	44.04
Total	2,961.0	12,528	1.08	9.38	177.8	44.55
1985						
Kentucky	1,352.0	12,849	1.02	8.20	175.9	45.21
Virginia	415.0	12,919	1.10	8.83	177.8	45.94
West Virginia	373.0	12,791	.80	8.73	178.8	45.74
Colombia	29.0	11,795	.73	7.70	175.4	41.38
Total	2,169.0	12,838	.99	8.41	176.8	45.39
1986						
Kentucky	1,065.0	12,937	1.08	7.89	166.6	43.11
Virginia	387.0	13,179	1.09	7.80	182.3	48.05
West Virginia	949.0	12,802	.79	9.17	155.8	39.90
Total	2,381.0	12,921	.97	8.39	164.8	42.59
1987						
Kentucky	752.0	12,723	1.02	9.08	153.5	39.06
Virginia	783.0	12,725	1.06	9.31	152.9	38.92
West Virginia	1,210.0	12,790	.80	9.74	150.7	38.55
Total	2,745.0	12,753	.93	9.44	152.1	38.80
1988						
Kentucky	834.0	12,711	1.09	8.63	148.0	37.62
Virginia	322.0	12,952	1.05	8.31	154.5	40.01
West Virginia	1,130.0	12,738	.74	9.40	151.9	38.69
Total	2,286.0	12,758	.91	8.97	150.8	38.49

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1992 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Virginia Electric and Power, Chesterfield						
1989						
Kentucky	1,699.8	12,613	1.01	8.59	152.8	38.55
Virginia	120.4	12,691	1.12	9.23	166.1	42.17
West Virginia	1,040.3	12,609	.80	9.30	147.3	37.14
Total	2,860.5	12,615	.94	8.87	151.4	38.19
1990						
Kentucky	1,726.6	12,656	1.08	8.57	152.7	38.66
Virginia	267.3	13,283	.93	7.20	157.1	41.72
West Virginia	811.0	12,669	.97	9.71	149.9	37.99
Total	2,805.0	12,719	1.04	8.77	152.4	38.76
1991						
Kentucky	1,819.5	12,722	1.14	8.69	149.0	37.92
Virginia	289.7	13,089	1.03	8.91	157.3	41.17
West Virginia	701.1	12,846	1.11	9.11	150.8	38.73
Total	2,810.2	12,791	1.12	8.82	150.3	38.46
1992						
January - March						
Kentucky	469.9	12,744	1.12	8.62	148.1	37.75
Virginia	158.1	12,976	1.13	8.71	149.8	38.87
West Virginia	178.1	12,892	1.17	8.87	149.0	38.42
Total	806.2	12,822	1.13	8.69	148.6	38.11
April - June						
Kentucky	374.1	12,760	1.12	8.80	147.5	37.64
Virginia	182.3	13,037	1.13	8.76	146.9	38.30
West Virginia	234.7	13,056	1.33	8.55	142.8	37.30
Total	791.1	12,912	1.19	8.72	146.0	37.69
July - September						
Kentucky	358.4	12,716	1.00	8.51	145.4	36.97
Virginia	115.2	13,095	1.07	8.10	144.3	37.79
West Virginia	90.1	13,042	1.32	8.84	145.3	37.91
Total	563.7	12,846	1.07	8.48	145.1	37.29
October - December						
Kentucky	477.8	12,670	1.05	9.17	144.9	36.72
Virginia	165.3	12,963	1.18	8.50	147.0	38.10
West Virginia	164.2	12,950	1.23	8.65	150.4	38.96
Total	807.3	12,787	1.11	8.93	146.5	37.45
Year to Date						
Kentucky	1,680.3	12,721	1.08	8.79	146.5	37.27
Virginia	620.9	13,012	1.13	8.56	147.2	38.30
West Virginia	667.1	12,984	1.26	8.70	146.7	38.09
Total	2,968.2	12,841	1.13	8.72	146.7	37.67

¹ Data reported on quality of coal as received.

² Average cost and quality data on imported coal delivered to the Crystal River Plant of Florida Power Corporation through August 1985 include coal delivered from Kentucky, Virginia, and West Virginia. Beginning in September 1985, the average cost of domestic coal delivered to the Crystal River Plant does not include all transportation costs. Prior to January 1986, the average cost of imported coal delivered to the Crystal River Plant included transportation costs directly to the plant. Beginning in January 1986, the average delivered cost for imported coal to the Crystal River Plant includes only transportation costs to the transfer facility in Myrtle Grove, Louisiana, and excludes the transportation costs of approximately \$7 to \$10 per short ton between the transfer facility and the Crystal River Plant.

³ Average cost data on coal delivered to Tampa Electric, Big Bend plant from the New Orleans transfer facility do not include the transportation cost of approximately \$5 per short ton from New Orleans to Tampa.

Notes: Total may not equal sum of components because of independent rounding. Only plants that have received imported coal since January 1, 1980, are included.

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

Appendix B

Metric Tables

Appendix B

Metric Tables

In response to requests from international users of U.S. coal statistics, certain summary data have been converted from the customary short tons to metric tons. This enables U.S. statistics to be compared with data published by countries using the metric system. The conversion to metric tons is made by multiplying short tons by .907185. For pounds and British thermal unit (Btu) data contained in the Receipts Section, the con-

version from Btu to joules is made by multiplying Btu by 1.055×10^3 , and the conversion from pounds to kilograms is made by multiplying pounds by 0.45359.

The data converted to metric tons are from Tables 1, 45, 52, 14/15, 16, 17, 18, 19, 20, 21, 24, and 25. In this section, the correlative data are in Tables B1 through B12, respectively.

**Table B1. U.S. Coal Production, Imports, Consumption, Exports, and Stocks,
1984-1992**
(Thousand Metric Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks ¹	Consumption	Exports	Consumer Stocks ¹
1984 January - March	202,406	250	31,085	181,385	13,722	158,107
April - June	208,858	244	27,978	188,570	21,534	178,053
July - September	221,890	395	26,944	188,797	22,918	188,712
October - December	179,612	278	30,926	179,100	15,746	178,906
Total	812,766	1,166		717,852	73,920	
1985 January - March	193,446	299	32,088	186,412	16,823	162,788
April - June	206,983	453	31,930	175,566	21,961	170,562
July - September	202,145	565	29,804	194,081	23,434	159,841
October - December	199,049	453	30,058	186,063	21,861	154,433
Total	801,623	1,771		742,121	84,078	
1986 January - March	206,814	440	34,495	187,092	15,644	150,954
April - June	199,582	522	34,807	171,161	21,926	159,681
July - September	198,384	487	30,666	192,932	21,489	149,582
October - December	202,900	557	29,114	178,401	18,521	158,963
Total	807,680	2,006		729,586	77,581	
1987 January - March	201,576	300	33,167	181,004	15,037	157,100
April - June	198,513	438	30,789	181,098	18,246	159,698
July - September	211,338	431	26,104	208,105	19,081	150,228
October - December	222,063	416	25,692	189,052	19,854	168,246
Total	833,487	1,585		759,260	72,219	
1988 January - March	214,903	492	33,352	200,295	14,570	159,011
April - June	205,609	533	32,730	186,640	22,589	157,222
July - September	219,196	397	28,449	216,520	25,121	140,006
October - December	222,359	514	27,594	198,173	23,923	143,710
Total	862,066	1,936		801,627	86,203	
1989 January - March	224,237	482	32,212	202,743	19,440	135,386
April - June	216,837	623	27,758	188,717	25,805	144,254
July - September	220,500	839	26,171	210,490	21,764	133,506
October - December	228,128	642	26,308	205,171	24,448	132,528
Total	889,702	2,587		807,121	91,456	
1990 January - March	239,664	666	31,841	196,872	20,305	145,859
April - June	230,678	612	33,471	192,020	25,159	156,998
July - September	231,114	466	30,535	218,469	26,759	146,637
October - December	232,106	704	30,317	205,004	23,760	152,598
Total	933,562	2,449		812,366	95,984	
1991 January - March	231,102	851	38,249	198,863	20,247	155,568
April - June	215,008	662	37,243	189,381	23,781	157,544
July - September	228,101	893	30,507	214,180	28,302	148,651
October - December	229,331	669	29,911	202,812	26,526	152,145
Total	903,542	3,075		805,236	98,855	
1992 January - March	232,850	616	36,154	199,837	22,436	152,970
April - June	220,832	947	36,753	190,897	24,503	157,052
July - September	226,503	800	31,931	215,463	24,023	146,047
October - December	227,227	1,087	30,838	203,512	22,039	147,842
Total	907,412	3,450		809,710	93,001	

¹ Reported as of the last day of the quarter.

Notes: Total may not equal sum of components because of independent rounding.

Sources: • Production: Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report" and Form EIA-7A, "Coal Production Report"; Mine Safety and Health Administration, U.S. Department of Labor, Form 7000-2, "Quarterly Mine Employment and Coal Production Report"; and State mining agency coal production reports; • Imports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145" • Producer and Distributor Stocks: EIA, Form EIA-6, "Coal Distribution Report" • Exports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545" • Consumption and Consumer Stocks: EIA, Form EIA-759, "Monthly Power Plant Report"; Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; and Form EIA-6, "Coal Distribution Report."

Table B2. U.S. Coal Consumption by End-Use Sector, 1984-1992
(Thousand Metric Tons)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial	Residential and Commercial	Total
1984 January - March	151,514	10,184	17,316	2,370	181,385
April - June	139,745	10,745	16,328	1,752	168,570
July - September	161,296	9,812	15,672	2,016	188,797
October - December	150,177	9,195	17,584	2,144	179,100
Total	602,733	39,936	66,900	8,282	717,852
1985 January - March	157,777	9,304	17,450	1,881	186,412
April - June	147,991	9,900	16,234	1,442	175,566
July - September	167,020	9,269	16,273	1,518	194,081
October - December	156,654	8,773	18,420	2,216	186,063
Total	629,442	37,246	68,377	7,057	742,121
1986 January - March	156,927	9,349	18,792	2,024	187,092
April - June	143,721	9,259	16,662	1,520	171,161
July - September	168,978	6,989	15,602	1,363	192,932
October - December	151,846	6,994	17,512	2,049	178,401
Total	621,472	32,590	68,568	6,956	729,586
1987 January - March	154,926	7,104	17,333	1,641	181,004
April - June	155,508	8,477	15,976	1,138	181,098
July - September	181,501	8,806	16,335	1,463	208,105
October - December	159,328	9,140	18,555	2,030	189,052
Total	651,263	33,527	68,198	6,272	759,260
1988 January - March	170,559	9,396	18,521	1,818	200,295
April - June	159,671	9,558	16,135	1,276	186,640
July - September	189,186	9,510	16,259	1,565	216,520
October - December	168,568	9,537	18,259	1,809	198,173
Total	687,983	38,000	69,175	6,468	801,627
1989 January - March	173,776	9,261	18,039	1,667	202,743
April - June	161,757	9,403	16,521	1,037	188,717
July - September	184,271	9,079	15,994	1,146	210,490
October - December	175,906	9,006	18,514	1,745	205,171
Total	695,710	36,749	69,068	5,595	807,121
1990 January - March	168,227	9,112	17,792	1,741	196,872
April - June	165,595	8,886	16,392	1,148	192,020
July - September	192,013	8,596	16,551	1,309	218,469
October - December	175,917	8,675	18,511	1,902	205,004
Total	701,752	35,269	69,246	6,100	812,366
1991 January - March	171,722	7,521	17,797	1,822	198,863
April - June	165,550	7,326	15,549	957	189,381
July - September	188,815	7,962	16,376	1,027	214,180
October - December	174,502	7,902	18,685	1,723	202,812
Total	700,590	30,712	68,406	5,529	805,236
1992 January - March	173,196	7,566	17,404	1,672	199,837
April - June	166,816	7,345	15,694	1,042	190,897
July - September	190,753	7,439	16,150	1,121	215,463
October - December	176,685	7,012	18,069	1,746	203,512
Total	707,450	29,362	67,316	5,582	809,710

Notes: Total may not equal sum of components because of independent rounding.

Sources: Energy Information Administration (EIA) • Electric Utilities: Form EIA-759, "Monthly Power Plant Report" • Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly" • Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants" and Form EIA-6, "Coal Distribution Report" • Residential and Commercial: Form EIA-6, "Coal Distribution Report."

Table B3. U.S. Coal Stocks, 1984-1992
(Thousand Metric Tons)

Last Day of Quarter	Coal Consumers ¹				Coal Producers and Distributors	Total
	Electric Utilities	Coke Plants	Other Industrial ²	Total		
1984 March 31	144,945	5,579	7,583	158,107	31,085	189,192
June 30	157,991	8,362	9,700	176,053	27,978	204,031
September 30	166,152	9,563	12,997	188,712	26,944	215,656
December 31	163,046	5,594	10,267	178,906	30,926	209,832
1985 March 31	150,915	4,005	7,878	162,798	32,088	194,886
June 30	158,345	4,161	8,057	170,562	31,930	202,493
September 30	147,930	3,028	8,883	159,841	29,604	189,445
December 31	141,862	3,102	9,469	154,433	30,058	184,491
1986 March 31	140,083	2,782	8,089	150,954	34,495	185,449
June 30	147,789	3,208	8,684	159,681	34,607	194,288
September 30	137,842	2,800	9,139	149,582	30,666	180,248
December 31	146,788	2,714	8,461	158,963	29,114	188,077
1987 March 31	146,645	2,427	8,029	157,100	33,167	190,267
June 30	148,199	3,388	8,111	159,698	30,789	190,487
September 30	137,857	3,030	9,341	150,228	26,104	176,332
December 31	154,945	3,524	9,777	168,246	25,692	193,938
1988 March 31	147,511	3,681	7,819	159,011	33,352	192,363
June 30	146,251	3,413	7,557	157,222	32,730	189,952
September 30	129,573	2,610	7,824	140,006	28,449	168,456
December 31	132,909	2,846	7,955	143,710	27,594	171,305
1989 March 31	126,132	3,191	6,063	135,386	32,212	167,598
June 30	135,153	3,049	6,052	144,254	27,758	172,013
September 30	123,051	3,363	7,092	133,506	26,171	159,677
December 31	123,250	2,598	6,680	132,528	26,308	158,836
1990 March 31	136,185	3,339	6,336	145,859	31,841	177,700
June 30	146,881	3,392	6,725	156,998	33,471	190,469
September 30	135,999	2,834	7,804	146,637	30,535	177,172
December 31	141,671	3,020	7,907	152,598	30,317	182,915
1991 March 31	146,133	2,839	6,596	155,568	38,249	193,818
June 30	148,288	2,978	6,278	157,544	37,243	194,787
September 30	139,622	2,445	6,584	148,651	30,507	179,158
December 31	143,223	2,516	6,406	152,145	29,911	182,056
1992 March 31	145,175	2,608	5,187	152,970	36,154	189,124
June 30	148,883	2,519	5,650	157,052	36,753	193,804
September 30	137,796	2,009	6,241	146,047	31,931	177,978
December 31	139,567	2,356	5,918	147,842	30,838	178,680

¹ The Residential and Commercial sector are not included. See Technical Note 7 in Appendix C.

² Manufacturing plants only.

Notes: Total may not equal sum of components because of independent rounding.

Sources: Energy Information Administration (EIA) • Electric Utilities: Form EIA-759, "Monthly Power Plant Report" • Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly" • Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants" • Producer and Distributor: Form EIA-6, "Coal Distribution Report."

Table B4. U.S. Coal Exports and Imports, 1984-1992
(Thousand Metric Tons, Dollars per Metric Ton)

Year	1984	1985	1986	1987	1988	1989	1990	1991	1992
January - March									
Exports									
Quantity	13,722	16,823	15,644	15,037	14,570	19,440	20,305	20,247	22,436
Price	\$56.45	\$54.17	\$51.28	\$49.37	\$46.35	\$46.59	\$47.65	\$49.14	\$46.61
Imports									
Quantity	250	287	440	300	492	482	666	851	616
Price	\$36.09	\$41.60	\$37.71	\$38.62	\$31.90	\$37.09	\$38.66	\$37.16	\$37.07
April - June									
Exports									
Quantity	21,534	21,961	21,026	18,246	22,589	25,805	25,159	23,781	24,503
Price	\$56.25	\$53.74	\$51.04	\$47.62	\$46.98	\$46.82	\$46.86	\$47.37	\$45.57
Imports									
Quantity	244	453	522	438	533	623	612	662	947
Price	\$37.37	\$38.85	\$39.84	\$34.93	\$37.19	\$37.69	\$37.11	\$38.14	\$36.33
July - September									
Exports									
Quantity	22,918	23,434	21,489	19,081	25,121	21,764	26,759	28,302	24,023
Price	\$55.85	\$52.69	\$50.06	\$46.31	\$46.12	\$46.97	\$46.54	\$45.76	\$44.86
Imports									
Quantity	395	565	487	431	397	839	466	893	800
Price	\$39.12	\$40.51	\$39.57	\$35.21	\$29.51	\$38.49	\$35.33	\$34.67	\$37.95
October - December									
Exports									
Quantity	15,746	21,071	18,521	19,854	23,923	24,448	23,760	26,526	22,039
Price	\$55.02	\$52.11	\$50.36	\$45.85	\$46.72	\$47.06	\$47.05	\$45.36	\$45.27
Imports									
Quantity	278	453	557	416	514	642	704	669	1,087
Price	\$42.80	\$38.38	\$41.27	\$33.46	\$32.49	\$36.86	\$39.04	\$36.55	\$36.46
Total									
Exports									
Quantity	73,920	84,078	77,581	72,219	86,203	91,458	95,984	98,855	93,001
Price	\$55.91	\$53.11	\$50.65	\$47.15	\$46.55	\$46.87	\$46.99	\$46.73	\$45.57
Imports									
Quantity	1,166	1,771	2,006	1,585	1,936	2,587	2,449	3,075	3,450
Price	\$38.99	\$39.73	\$39.71	\$35.32	\$33.03	\$37.63	\$37.97	\$36.51	\$36.88

Notes: Exports: Price is based on the free alongside ship (f.a.s.) value. Imports: Price is based on the customs import value. Total may not equal sum of components because of independent rounding.

Sources: Exports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545"; and Imports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Table B5. U.S. Coal Exports
(Metric Tons)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	3,899,234	4,503,381	4,675,789	13,908,040	10,391,201	33.8
Canada ¹	3,851,586	4,471,126	4,593,945	13,734,383	10,140,444	35.4
Dominican Republic	24,054	20,731	53,458	76,584	117,686	-34.9
Jamaica	12,427	-	13,651	24,426	46,766	-47.8
Mexico	9,198	10,861	14,324	69,576	83,621	-16.8
Other ²	1,969	663	411	3,071	2,684	14.4
South America Total	1,415,918	1,522,191	1,713,974	6,140,763	6,949,903	-11.6
Argentina	29,308	96,427	-	304,044	389,565	-22.0
Brazil	1,385,068	1,405,857	1,697,508	5,778,435	6,397,356	-9.7
Chile	-	-	-	24,576	122,504	-79.9
Other ²	1,542	19,907	16,466	33,708	40,478	-16.7
Europe Total	11,233,974	12,473,697	14,622,479	51,940,964	59,418,555	-12.6
Albania	-	-	-	20,216	101,743	-80.1
Belgium & Luxembourg	1,566,981	1,437,725	1,444,231	6,528,205	6,771,247	-3.6
Bulgaria	200,714	193,073	198,046	545,746	858,400	-36.4
Denmark	505,722	1,049,338	1,073,744	3,476,648	4,225,276	-17.7
Finland	-	-	164,384	186,118	481,025	-61.3
France	1,401,118	1,484,561	1,993,924	7,311,718	8,626,433	-15.2
Germany, FR	83,467	309,890	662,535	910,305	1,580,603	-42.4
Ireland	319,781	403,502	275,705	1,314,445	1,190,776	10.4
Italy	1,910,325	1,637,828	2,663,720	8,476,486	10,227,420	-17.1
Netherlands	1,801,851	2,104,821	2,275,814	8,298,598	8,731,842	-5.0
Norway	19,657	43,225	30,254	107,438	181,346	-40.8
Portugal	172,804	391,217	549,033	1,341,984	1,478,087	-9.2
Romania	166,182	149,561	202,065	682,740	1,040,397	-34.4
Spain	849,823	1,014,503	929,739	4,114,419	4,258,479	-3.4
Sweden	445,545	307,137	397,022	1,057,106	1,124,178	-6.0
Turkey	451,038	613,210	367,990	1,804,906	1,983,330	-9.0
United Kingdom	1,185,583	1,191,700	1,298,048	5,076,021	5,597,955	-9.3
Yugoslavia	153,383	127,570	81,678	658,712	887,883	-25.8
Other ²	-	14,836	14,547	29,153	92,135	-68.4
Asia Total	4,849,536	4,997,186	4,793,900	18,633,240	19,766,118	-5.7
China (Taiwan)	753,317	1,048,492	1,174,400	3,229,517	4,124,651	-21.7
Hong Kong	111,414	107,769	122,796	323,437	544,618	-40.6
Israel	110,767	243,031	99,282	747,513	590,925	26.5
Japan	2,815,856	2,825,208	2,623,759	11,161,703	11,129,967	.3
Korea, Republic of	932,222	771,558	773,168	3,040,565	3,366,215	-9.7
Other ²	125,960	1,128	495	130,505	9,742	(3)
Oceania & Australia Total	-	17	-	276	120	130.0
Africa Total	640,629	526,605	719,464	2,377,878	2,308,783	3.0
Algeria	155,026	114,754	56,207	554,706	473,800	17.1
Egypt	176,111	225,240	285,453	769,613	697,527	10.3
Morocco	187,912	123,589	257,318	668,168	918,849	-27.3
South Africa, Rep of	121,580	63,022	120,486	385,391	216,781	77.8
Other ²	-	-	-	-	1,826	-
Total	22,039,291	24,023,077	26,525,606	93,001,161	98,854,680	-5.9

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 1991.

³ Changes of 500 percent or more are not shown.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table B6. Average Price of U.S. Coal Exports
(Dollars per Metric Ton)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	\$36.09	\$36.60	\$35.97	\$36.44	\$37.05	-1.6
Canada ¹	36.05	36.56	35.89	36.37	36.91	-1.5
Dominican Republic	38.64	40.89	39.80	40.00	40.57	-1.4
Jamaica	-	-	36.70	-	36.83	-
Mexico	43.24	43.24	45.16	47.93	48.11	-.4
Other ²	44.40	43.34	38.14	43.26	38.01	13.8
South America Total	49.83	49.87	50.60	50.20	50.97	-1.5
Argentina	49.89	50.92	-	50.09	50.26	-.3
Brazil	49.84	49.82	50.60	50.23	51.20	-1.9
Chile	-	-	-	52.23	43.52	20.0
Other ²	42.86	43.85	54.36	40.73	38.86	4.8
Europe Total	47.47	46.79	46.97	47.03	47.49	-1.0
Albania	-	-	-	-	51.00	-
Belgium & Luxembourg	47.36	49.59	48.81	48.51	49.40	-1.8
Bulgaria	47.29	47.41	46.63	47.72	46.92	1.7
Denmark	34.36	35.36	35.29	36.03	36.32	-.8
Finland	-	-	48.18	44.99	49.35	-8.8
France	45.38	44.41	43.67	43.40	44.29	-2.0
Germany, FR	42.00	43.25	42.64	42.19	43.36	-2.7
Ireland	41.83	40.75	43.18	40.57	43.57	-6.9
Italy	49.00	50.03	50.23	49.97	50.02	-.1
Netherlands	47.71	46.79	48.20	47.78	47.60	.4
Norway	-	54.24	-	52.86	35.40	49.3
Portugal	45.01	45.20	45.00	44.91	45.05	-.3
Romania	42.23	41.40	49.71	45.88	50.58	-9.3
Spain	52.40	52.98	49.53	51.61	49.85	3.5
Sweden	50.94	51.90	52.10	51.44	52.60	-2.2
Turkey	49.84	49.68	51.46	50.20	51.63	-2.8
United Kingdom	50.49	49.33	49.80	50.20	51.09	-1.8
Yugoslavia	51.60	51.10	44.73	49.65	51.38	-3.4
Other ²	-	40.87	-	40.84	47.95	-14.8
Asia Total	46.22	46.38	47.02	47.02	47.67	-1.4
China (Taiwan)	44.17	45.85	46.37	45.45	46.00	-1.2
Hong Kong	41.40	41.39	41.92	41.40	42.53	-2.7
Israel	41.71	42.92	45.22	43.11	43.95	-1.9
Japan	46.25	46.29	46.94	47.30	47.83	-1.1
Korea, Republic of	49.81	49.19	49.35	49.53	50.65	-2.2
Other ²	39.39	38.00	43.17	39.51	44.58	-11.4
Oceania & Australia Total	-	-	-	38.08	-	-
Africa Total	47.10	48.11	46.32	47.37	45.49	4.1
Algeria	51.30	50.65	50.21	51.10	51.26	-.3
Egypt	50.67	51.57	50.16	50.80	50.36	.9
Morocco	37.45	36.82	37.65	37.26	37.18	.2
South Africa, Rep of	51.50	53.27	53.94	52.68	53.92	-2.3
Other ²	-	-	-	-	44.99	-
Total³	45.35	45.02	45.34	45.68	46.69	-2.2
U.S. Total⁴	45.28	44.86	45.36	45.57	46.73	-2.5

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 1991.

³ The average price presented in this table, with the exception of U.S. Total, are considered to be representative prices for coal exports and fall within the range of \$28 to \$50 per short ton (\$25.40 to \$45.36 per metric ton) inclusively.

⁴ U.S. Total is the average price of all coal exports.

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the free alongside ship (f.a.s.) value.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table B7. U.S. Steam Coal Exports
(Metric Tons)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	2,648,910	2,887,169	3,344,376	9,411,332	6,708,000	40.3
Canada ¹	2,601,282	2,855,105	3,262,552	9,270,639	6,494,148	42.8
Dominican Republic	24,054	20,731	53,458	76,584	117,686	-34.9
Jamaica	12,427	-	13,651	24,426	46,766	-47.8
Mexico	9,198	10,670	14,324	36,632	46,756	-21.7
Other ²	1,949	663	391	3,051	2,644	15.4
South America Total	61,702	121,425	21,515	221,925	222,375	-2
Argentina	1,590	539	-	2,566	918	179.5
Brazil	58,570	100,979	5,049	185,583	85,353	117.4
Chile	-	-	-	68	95,626	-99.9
Other ²	1,542	19,907	16,466	33,708	40,478	-16.7
Europe Total	4,215,426	5,324,767	6,609,361	21,673,177	24,471,750	-11.4
Belgium & Luxembourg	482,463	328,677	457,230	1,842,335	1,753,160	5.1
Denmark	505,722	1,049,338	949,817	3,476,648	3,710,437	-6.3
Finland	-	-	65,737	-	128,429	-
France	448,223	580,791	907,026	3,397,805	3,318,229	2.4
Germany, FR	83,467	167,574	493,710	686,066	1,071,360	-36.0
Ireland	319,781	403,502	275,705	1,314,445	1,190,776	10.4
Italy	776,699	420,979	842,727	2,870,109	4,341,093	-33.9
Netherlands	891,720	1,209,445	1,084,268	3,911,595	4,560,448	-14.2
Norway	5,911	6,544	6,224	24,905	89,662	-72.2
Portugal	172,804	349,269	549,033	1,219,500	1,410,682	-13.6
Romania	-	-	66,243	-	130,395	-
Spain	246,012	352,191	333,199	1,578,787	1,172,006	34.7
Sweden	-	-	-	224	7,301	-96.9
Turkey	-	-	108,844	286	109,115	-99.7
United Kingdom	282,624	394,695	469,598	1,288,710	1,373,261	-6.2
Yugoslavia	-	61,554	-	61,554	99,748	-38.3
Other ²	-	208	-	208	5,648	-96.3
Asia Total	1,977,631	2,241,566	2,219,395	7,152,740	8,068,705	-11.4
China (Taiwan)	653,062	949,363	1,075,158	2,844,560	3,708,403	-23.3
Hong Kong	111,414	107,769	122,796	323,437	544,618	-40.6
Israel	110,767	243,031	99,282	617,853	491,996	25.6
Japan	832,370	777,693	669,784	2,561,383	2,606,862	-1.7
Korea, Republic of	144,058	162,582	251,880	675,002	707,084	-4.5
Other ²	125,960	1,128	495	130,505	9,742	(³)
Oceania & Australia Total	-	17	-	276	120	130.0
Africa Total	188,580	86,332	220,862	631,579	736,395	-14.5
Egypt	668	-	521	668	971	-31.2
Morocco	187,912	86,332	220,341	630,911	735,598	-14.2
Other ²	-	-	-	-	1,826	-
Total	9,092,249	10,661,276	12,415,509	39,091,029	40,209,345	-2.8

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 1991.

³ Changes of 500 percent or more are not shown.

Notes: Total may not equal sum of components because of independent rounding. Steam coal includes bituminous, subbituminous, lignite, and anthracite.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table B8. Average Price of U.S. Steam Coal Exports
(Dollars per Metric Ton)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	\$34.48	\$34.36	\$33.41	\$34.63	\$33.61	3.0
Canada ¹	34.41	34.28	33.23	34.56	33.38	3.5
Dominican Republic	38.64	40.89	39.80	40.00	40.57	-1.4
Jamaica	-	-	36.70	-	36.83	-
Mexico	43.24	43.24	45.16	42.10	43.16	-2.5
Other ²	44.40	43.34	38.14	43.26	38.01	13.8
South America Total	47.47	47.51	54.36	46.72	43.14	8.3
Argentina	38.03	-	-	42.57	39.63	7.4
Brazil	47.63	47.72	-	47.34	48.11	-1.6
Chile	-	-	-	45.18	40.33	12.0
Other ²	42.86	43.85	54.36	40.73	38.86	4.8
Europe Total	41.38	40.41	41.41	40.77	41.60	-2.0
Belgium & Luxembourg	39.48	40.04	41.00	40.06	40.87	-2.0
Denmark	34.36	35.36	35.78	36.03	36.53	-1.4
Finland	-	-	45.00	-	45.00	-
France	35.73	37.28	36.78	37.08	37.40	-0.9
Germany, FR	42.00	36.82	39.19	39.48	38.52	2.5
Ireland	41.83	40.75	43.18	40.57	43.57	-6.9
Italy	45.99	43.88	45.56	45.55	45.98	-0.9
Netherlands	43.45	43.42	44.13	43.26	43.64	-0.9
Norway	-	-	-	-	35.40	-
Portugal	45.01	44.55	45.00	44.51	44.67	-0.3
Romania	-	-	47.00	-	47.00	-
Spain	47.16	43.98	36.30	42.41	37.83	12.1
Sweden	-	-	-	38.08	45.90	-17.0
Turkey	-	-	51.14	45.00	51.13	-12.0
United Kingdom	43.28	43.10	44.31	42.94	43.75	-1.9
Yugoslavia	-	-	-	-	45.18	-
Other ²	-	46.32	-	46.32	45.02	2.9
Asia Total	40.61	42.30	43.38	42.19	43.18	-2.3
China (Taiwan)	43.27	45.36	45.90	44.79	45.37	-1.3
Hong Kong	41.40	41.39	41.92	41.40	42.53	-2.7
Israel	41.71	42.92	45.22	42.87	43.44	-1.3
Japan	38.88	39.32	39.09	39.66	39.73	-0.2
Korea, Republic of	38.24	38.40	44.01	41.05	44.06	-6.8
Other ²	39.39	38.00	43.17	39.51	44.58	-11.4
Oceania & Australia Total	-	-	-	38.08	-	-
Africa Total	37.48	36.43	37.52	37.24	36.99	.7
Egypt	43.98	-	44.97	43.98	44.97	-2.2
Morocco	37.45	36.43	37.50	37.23	36.96	.7
Other ²	-	-	-	-	44.99	-
Total³	39.16	39.21	39.67	39.53	40.64	-2.7
U.S. Total⁴	39.19	39.09	39.79	39.38	40.69	-3.2

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 1991.

³ The average price presented in this table, with the exception of U.S. Total, are considered to be representative prices for coal exports and fall within the range of \$28 to \$50 per short ton (\$25.40 to \$45.36 per metric ton) inclusively.

⁴ U.S. Total is the average price of all coal exports.

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the free alongside ship (f.a.s.) value. Steam coal includes bituminous, subbituminous, lignite, and anthracite.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table B9. U.S. Metallurgical Coal Exports
(Metric Tons)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	1,250,324	1,616,212	1,331,413	4,496,708	3,663,201	22.1
Canada ¹	1,250,304	1,616,021	1,331,393	4,463,744	3,646,296	22.4
Mexico	-	191	-	32,944	36,865	-10.6
Other ²	20	-	20	20	40	-50.0
South America Total	1,354,216	1,400,766	1,692,459	5,918,838	6,727,528	-12.0
Argentina	27,718	95,888	-	301,478	388,647	-22.4
Brazil	1,326,498	1,304,878	1,692,459	5,592,852	6,312,003	-11.4
Chile	-	-	-	24,508	26,878	-8.8
Europe Total	7,018,548	7,148,930	8,013,118	30,267,767	34,966,805	-13.4
Albania	-	-	-	20,216	101,743	-80.1
Belgium & Luxembourg	1,084,518	1,109,048	987,001	4,685,870	5,018,087	-6.6
Bulgaria	200,714	193,073	198,046	545,746	858,400	-36.4
Denmark	-	-	123,927	-	514,839	-
Finland	-	-	98,647	186,118	352,596	-47.2
France	952,895	903,770	1,086,898	3,913,913	5,308,204	-26.3
Germany, FR	-	142,316	168,825	224,239	509,243	-56.0
Italy	1,133,626	1,216,849	1,820,993	5,606,377	5,886,327	-4.8
Netherlands	910,131	895,376	1,191,546	4,387,003	4,171,394	5.2
Norway	13,746	36,681	24,030	82,533	91,684	-10.0
Portugal	-	41,948	-	122,484	67,405	81.7
Romania	166,182	149,561	135,822	682,740	910,002	-25.0
Spain	603,811	662,312	596,540	2,535,632	3,086,473	-17.8
Sweden	445,545	307,137	397,022	1,056,882	1,116,877	-5.4
Turkey	451,038	613,210	259,146	1,804,620	1,874,215	-3.7
United Kingdom	902,959	797,005	828,450	3,787,311	4,224,694	-10.4
Yugoslavia	153,383	66,016	81,678	597,158	788,135	-24.2
Other ²	-	14,628	14,547	28,945	86,487	-66.5
Asia Total	2,671,905	2,755,620	2,574,505	11,480,500	11,697,413	-1.9
China (Taiwan)	100,255	99,129	99,242	384,957	416,248	-7.5
Israel	-	-	-	129,660	98,929	31.1
Japan	1,983,486	2,047,515	1,953,975	8,600,320	8,523,105	.9
Korea, Republic of	788,164	608,976	521,288	2,365,563	2,659,131	-11.0
Africa Total	452,049	440,273	498,602	1,746,299	1,570,388	11.2
Algeria	155,026	114,754	56,207	554,706	473,800	17.1
Egypt	175,443	225,240	284,932	768,945	696,556	10.4
Morocco	-	37,257	36,977	37,257	183,251	-79.7
South Africa, Rep of	121,580	63,022	120,486	385,391	216,781	77.8
Total	12,947,042	13,361,801	14,110,097	53,910,132	58,645,335	-8.1

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 1991.

Note: Total may not equal sum of components because of independent rounding.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table B10. Average Price of U.S. Metallurgical Coal Exports
(Dollars per Metric Ton)

Continent and Country of Destination	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	\$39.34	\$40.54	\$41.80	\$40.15	\$42.48	-5.5
Canada ¹	39.34	40.54	41.80	40.06	42.37	-5.4
Mexico	-	-	-	52.82	54.23	-2.6
South America Total	49.92	50.04	50.80	50.32	51.19	-1.7
Argentina	49.95	50.92	-	50.10	50.28	-.4
Brazil	49.92	49.98	50.60	50.32	51.23	-1.8
Chile	-	-	-	52.25	54.87	-4.8
Europe Total	50.95	51.31	51.50	51.34	51.71	-.7
Albania	-	-	-	-	51.00	-
Belgium & Luxembourg	50.87	52.42	52.43	51.83	52.39	-1.1
Bulgaria	47.29	47.41	46.63	47.72	46.92	1.7
Denmark	-	-	31.50	-	32.37	-
Finland	-	-	50.30	44.99	50.94	-11.7
France	49.93	48.99	49.41	48.93	48.46	1.0
Germany, FR	-	50.81	52.75	50.47	53.51	-5.7
Italy	51.06	52.28	52.39	52.29	53.22	-1.7
Netherlands	51.88	51.34	51.90	51.81	51.93	-.2
Norway	-	54.24	-	52.86	-	-
Portugal	-	50.57	-	48.87	53.03	-7.8
Romania	42.23	41.40	51.04	45.88	51.22	-10.4
Spain	52.74	53.22	53.97	53.44	53.41	.1
Sweden	50.94	51.90	52.10	51.44	52.65	-2.3
Turkey	49.84	49.68	51.58	50.20	51.66	-2.8
United Kingdom	52.74	52.41	52.78	52.60	53.42	-1.5
Yugoslavia	51.60	51.10	44.73	49.65	51.38	-3.4
Other ²	-	40.79	-	40.79	48.00	-15.0
Asia Total	50.08	49.69	50.17	50.03	50.70	-1.3
China (Taiwan)	50.05	50.55	51.47	50.30	51.58	-2.5
Israel	-	-	-	44.24	46.50	-4.9
Japan	49.34	48.94	49.63	49.58	50.18	-1.2
Korea, Republic of	51.93	52.07	51.93	51.95	52.41	-.9
Africa Total	51.12	50.40	50.22	51.03	49.63	2.8
Algeria	51.30	50.65	50.21	51.10	51.26	-.3
Egypt	50.69	51.57	50.17	50.80	50.37	.9
Morocco	-	37.72	38.53	37.72	38.07	-.9
South Africa, Rep of	51.50	53.27	53.94	52.68	53.92	-2.3
Total³	49.54	49.51	50.18	50.00	50.79	-1.5
U.S. Total⁴	49.55	49.47	50.26	50.06	50.68	-1.6

¹ Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

² Includes countries with exports less than or equal to 50,000 short tons in 1991.

³ The average price presented in this table, with the exception of U.S. Total, are considered to be representative prices for coal exports and fall within the range of \$28 to \$50 per short ton (\$25.40 to \$45.36 per metric ton) inclusively.

⁴ U.S. Total is the average price of all coal exports.

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the free alongside ship (f.a.s.) value.
Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545."

Table B11. U.S. Coal Imports
(Metric Tons)

Continent and Country of Origin	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	265,765	195,484	219,199	926,102	848,646	9.1
Canada	265,765	195,484	219,199	926,102	848,646	9.1
South America Total	681,919	480,627	443,811	2,088,277	2,192,038	-4.7
Colombia	458,284	433,483	320,303	1,599,502	1,708,814	-6.3
Venezuela	223,635	47,144	123,508	488,775	485,224	.7
Europe Total	-	81	-	81	5	(¹)
Czechoslovakia	-	-	-	-	5	-
United Kingdom	-	81	-	81	-	-
Asia Total	108,475	102,905	6,208	338,513	6,254	(¹)
China (Mainland)	-	258	183	258	183	41.0
Hong Kong	-	-	-	1	-	-
India	60,014	-	-	60,014	-	-
Indonesia	-	102,647	6,025	229,779	6,025	(¹)
Japan	-	-	-	-	1	-
Malaysia	48,461	-	-	48,461	-	-
Thailand	-	-	-	-	45	-
Oceania & Australia Total	25,967	21,016	-	91,613	28,219	224.7
Australia	25,967	21,016	-	91,613	28,219	224.7
Africa Total	5,227	-	-	5,227	-	-
South Africa, Rep of	5,227	-	-	5,227	-	-
Total	1,087,353	800,113	669,218	3,449,813	3,075,162	12.2

¹ Changes of 500 percent or more are not shown.

Notes: Total may not equal sum of components because of independent rounding. Coal imports include coal to Puerto Rico and the Virgin Islands.
Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Table B12. Average Price of U.S. Coal Imports
(Dollars per Metric Ton)

Continent and Country of Origin	October - December 1992	July - September 1992	October - December 1991	Year to date		
				1992	1991	Percent Change
North America Total	\$37.82	\$26.55	\$26.54	\$30.73	\$27.67	11.0
Canada	37.82	28.55	26.54	30.73	27.67	11.0
South America Total	33.80	36.36	39.44	36.42	38.19	-4.6
Colombia	33.64	35.94	36.32	35.55	36.24	-1.9
Venezuela	34.13	40.26	47.54	39.25	45.06	-12.9
Europe Total	-	37.49	-	37.49	-	-
United Kingdom	-	37.49	-	37.49	-	-
Asia Total	37.60	50.07	-	42.71	-	-
India	26.07	-	-	26.07	-	-
Indonesia	-	50.07	-	45.13	-	-
Malaysia	51.87	-	-	51.87	-	-
Oceania & Australia Total	37.12	37.11	-	39.76	41.86	-5.0
Australia	37.12	37.11	-	39.76	41.86	-5.0
Africa Total	54.33	-	-	54.33	-	-
South Africa, Rep of	54.33	-	-	54.33	-	-
Total¹	35.22	36.64	35.32	35.80	35.65	.4
U.S. Total²	36.47	37.95	36.55	36.88	36.51	1.0

¹ The average price presented in this table, with the exception of U.S. Total, are considered to be representative prices for coal exports and fall within the range of \$20 to \$50 per short ton (\$18.14 to \$45.36 per metric ton) inclusively.

² U.S. Total is the average price of all coal imports.

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the customs import value. Coal imports include coal to Puerto Rico and the Virgin Islands.

Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

Appendix C

Explanatory Notes

Explanatory Notes

Data Sources

All data in this report were collected by the Energy Information Administration (EIA), U.S. Department of Energy (DOE), except import and export data, which were collected by the Bureau of the Census, U.S. Department of Commerce. All of the EIA data were collected by mail from respondents who were required to report; no sampling procedures were used. Followup of nonrespondents was conducted through EIA's standard procedures, which include written and telephone requests.

Copies of the survey forms and instructions used to collect data appearing in this publication can be obtained by calling EIA's National Energy Information Center at (202) 586-8800.

Coal Surveys

EIA began collecting coal data on October 1, 1977. Before then, the Bureau of Mines (BOM), U.S. Department of the Interior, conducted surveys of coal production, distribution, and consumption, and published the data in the *Minerals Yearbook*.

As early as the 1880's, the U.S. Geological Survey began collecting coal data under a voluntary reporting system. The responsibility for gathering this information was transferred to BOM, initially under the U.S. Department of Commerce and later under the U.S. Department of the Interior. Except for a brief period from 1937 to 1943, when bituminous coal data were collected under authority of the Bituminous Coal Act, BOM continued to conduct voluntary coal surveys until DOE was created in October 1977.

EIA conducts three quarterly coal surveys--of manufacturers consuming coal, of coke plants, and of distributors of coal--and one annual survey of mines producing coal. All data, with a few exceptions that are stated in the Technical Notes, are presented as reported on the are stated in the Technical Notes, are presented

as reported on the surveys with no estimations or other adjustments for missing data. The data are maintained in a computer system and are edited to ensure that they are reasonable, consistent, and complete.

So that EIA may fulfill its data collection functions as specified in the Federal Energy Administration Act of 1974 (P.L. 93-275), response to these surveys is mandatory.

Quarterly Coal Consumption Report - Manufacturing Plants (Form EIA-3)

Form EIA-3 is used to survey U.S. manufacturers that consume 1,000 tons or more of coal per year for all uses other than coke production. These data were collected on a monthly basis until 1980, when the reporting cycle was revised to a quarterly schedule. Data on manufacturers' coal stocks, receipts, prices, and consumption are reported.

Through the end of 1988, all manufacturers that consumed coal were required to file Form EIA-3. Beginning with the first quarter of 1989, only those manufacturers that consumed 1,000 or more tons in the past year were required to report. At present, 825 manufacturers respond to the EIA-3 survey. The response rate for the current quarter was 100 percent. In order to identify undercoverage problems, the data from this survey are compared with shipments to *manufacturers* reported on EIA's "Coal Distribution Report," Form EIA-6. At present, the coal receipts reported by *manufacturers* on Form EIA-3 cover approximately 97 percent of the coal shipments to *manufacturers* on Form EIA-6. Consequently, the coal consumption data gathered on the Form EIA-3 is not the total consumption at manufacturing plants. See Technical Note 5 for data adjustment procedures for coal consumption for the other industrial sector.

Current year data from this survey are preliminary and unrevised in the January - March, April - June, and July - September issues of this publication. In the October - December issue, any revisions necessary for the entire year are applied and the data are considered final.

The respondent list of manufacturers for Form EIA-3 is compared with lists of coal-consuming manufacturing plants from State Air Quality and Energy Offices. When new respondents are found, they are added to the survey mailing list.

Coke Plant Report (Form EIA-5)

Form EIA-5, a quarterly report of coal receipts, carbonization, and stocks, and of coke and breeze production, distribution, and stocks, is used to survey all U.S. coke plants.

Coke plants were surveyed monthly and a supplemental survey was taken annually until 1981, when the reporting cycle was revised to a quarterly schedule with an annual supplemental survey. In 1985, collection of the annual supplement was ended.

Presently, there are 33 respondents to the EIA-5 survey, and the response rate was 100 percent. The respondent list for this survey is updated by continuous monitoring of the industry literature.

Current year data from this survey are preliminary and unrevised in the January - March, April - June, and July - September issues of this publication. In the October - December issue, any revisions necessary for the entire year are applied and the data are considered final.

Coal Distribution Report (Form EIA-6)

Form EIA-6 is used to survey all U.S. companies (producers and/or distributors) that own or purchase and distribute more than 50,000 short tons of coal annually. Data on coal production and purchases, distribution by consumer category, and method of transportation are reported.

At present, there are 1,300 respondents to the EIA-6 survey. Until the end of 1988, coal distribution companies were required to report production on a Bureau of Mines (BOM) district basis. For the year 1989, respondents were required to report on a BOM district/State basis. Beginning with the first quarter of 1990, respondents were required to report on a State basis. The response rate for the current quarter was 100 percent. The annual production total reported on Form EIA-6 exceeds 99 percent of total production as reported by all mines on Form EIA-7A, "Coal Production Report," due to the difference in reporting thresholds. The data gathered on the Form EIA-6 only represent the domestic coal distributed during the quarter. Therefore, imported coal distributed during the quarter is not included.

Current year data from this survey are preliminary and unrevised in the January - March, April - June, and July - September issues of this publication. In the October - December issue, any revisions necessary for the entire year are applied and the data are considered final.

The respondent list for this survey is updated by comparing it with lists of coal producers from the Mine Safety and Health Administration (MSHA), U.S. Department of Labor, and from similar lists maintained by various State agencies. Also, new respondents are frequently identified on Form EIA-6 itself when other companies are named as sources of coal purchases.

Coal Production Report (Form EIA-7A)

Form EIA-7A is used to survey all coal mining companies that own a mining operation that produces, processes, or prepares 10,000 or more short tons of coal annually in the United States. Data on coal production, coalbeds mined, stocks, employment, productivity, productive capacity, and recoverable reserves are reported. The EIA annual publication, *Coal Production* (DOE/EIA-0118), is prepared from data reported on this survey.

At present, there are 3,114 respondents to the EIA-7A survey. Data for nonrespondents, if unobtainable through EIA's standard procedures for nonrespondents, were derived from coal production reports from State mining agencies, from coal distributors on Form EIA-6, "Coal Distribution Report," and from Form 7000-2, "Quarterly Mine Employment and Coal Production Report," which contains data collected by MSHA. The respondents on this survey are compared with lists of mining operations maintained by various State agencies and MSHA, to identify new respondents. The coal production and number of mines data on the Form EIA-7A include the entire population of U.S. coal mines. The other information contained on the form represents data for mines producing 10,000 short tons or more during the year. This subgroup represents approximately 98 percent of all coal production.

Data from this survey are considered final at the time of publication.

Electric Utility Surveys

Coal data appear in this report from two monthly surveys of electric utilities - from all generating electric utilities and from fossil-fueled plants.

The Census Bureau collected and published the results of a census taken every 5 years from 1902 to 1937 on the electric light and power industries and some data on industrial production of electric energy. The U.S. Geological Survey collected data on capacity and generation of electric utilities from 1920 to 1936, when this activity was turned over to the Federal Power Commission (FPC).

All data are presented as reported on the surveys. No estimates or other adjustments are made for missing data. The data are maintained in a computer system and are edited to ensure that they are reasonable, consistent, and complete. For additional information from these surveys and for other electric utility data, see the EIA publication, *Electric Power Monthly* (DOE/EIA-0226).

Monthly Power Plant Report (Form EIA-759)

Form EIA-759 (which, until 1982, was called FPC Form 4) is used to survey all generating electric utilities. The Federal Power Act and FPC Order Number 141 define the legislative authority to collect power production data. Consumption and stocks of coal and other fuels at each plant are reported. The respondents to Form EIA-759, approximately 3,000 plants, account for 100 percent of total electric utility generation.

Current year data from this survey are preliminary and unrevised in the January - March, April - June, and July - September issues of this publication. In the October - December issue, initial revisions for the year are applied and the data are considered revised. In the following year's April - June issue, any further revisions necessary for the entire prior year are applied and the data are considered final.

Monthly Report of Cost and Quality of Fuels for Electric Plants (FERC Form 423)

Federal Energy Regulatory Commission (FERC) Form 423 is used to survey all fossil-fueled plants with a total steam-generating capacity of 50 megawatts or more. It is submitted by approximately 225 electric utilities. (Before 1983, this form was called FPC Form 423, and all fossil-fueled plants with a total generating capacity of 25 megawatts or more were surveyed.) In 1972, the FPC issued Order Number 453, which included the legislative authority to create FERC Form 423. Cost, quality, and source of fuels (by State or country of origin), including coal, are reported.

Data from this survey are preliminary and unrevised in all four quarterly issues of the publication for the

reporting year. In the following year's January - March issue, any revisions necessary for the entire prior year are applied and the data are considered final.

Export and Import Data

Export and import data (except imports to electric utilities which are reported on the FERC Form 423) are obtained from the Census Bureau--export data from the monthly EM 545 (formerly EM 522) report, import data from the monthly IM 145 report. The Census Bureau compiles these data monthly from documents filed with the U.S. Customs Service as required by law. They include shippers' export declaration forms, import entry forms, and warehouse withdrawal forms. No sampling procedures are used. The Census Bureau publication, *Guide to Foreign Trade Statistics*, describes the foreign trade statistics program, including the EM 545 and IM 145 monthly reports.

Data from these surveys are considered final at the time of publication.

Technical Notes

1. Differences in Related Coal Data

Coal Production versus Coal Distribution. Coal production represents newly-mined coal. Coal distribution represents shipments of newly-mined coal and coal from producer/distributor stockpiles (previously mined coal).

Coal Distribution versus Coal Receipts. Differences in coal distribution data and coal receipts data are due to the time lag between distribution and receipt of coal shipments, and due to the survey threshold differences. In addition, coal distributed includes only domestic coal, whereas receipts include imported coal.

Foreign Distribution of U.S. Coal versus U.S. Coal Exports. Foreign distribution of U.S. coal does not equal U.S. coal exports due to reporting time differences and survey threshold differences.

2. Other Industrial Plants and Manufacturing

The *other industrial plants* end-use sector includes the *manufacturing*, agriculture, forestry and fishing, mining, and construction industries. Manufacturing accounts for approximately 97 percent of the coal receipts and consumption and 100 percent of the coal stocks in the *other industrial plants* sector as reported herein. Data sources for the *other industrial plants* sector and the *manufacturing* sector are Forms EIA-6 and EIA-3, respectively. The source statement in each table identifies the survey used to collect coal data for the *other industrial plants* sector, and the following technical notes describe the methodology used when data were derived.

3. Residential and Commercial

To reduce the reporting burden to coal users, the EIA does not conduct any survey of coal data from residential and commercial users of coal. Shipments of coal to this sector, reported by producers and distributors of coal on Form EIA-6, are equated to coal receipts and consumption by the *residential and commercial* sector, assuming no stock changes.

4. Receipts

Coal receipts data are derived for each end-use sector as follows:

Electric Utilities. Receipts are reported on FERC Form 423.

Coke Plants. Receipts are reported on Form EIA-5.

Other Industrial Plants. Receipts are derived for each State by two methods, and the method producing the larger value for a State is chosen. The two methods are (1) receipts as reported on Form EIA-3, and (2) shipments to the *other industrial plants* sector as reported on Form EIA-6, which includes shipments to the *transportation* sector.

Residential and Commercial. Shipments to the *residential and commercial* sector are reported on Form EIA-6 and are defined as receipts for this end-use sector.

5. Prices

Prices are derived for each end-use sector as follows:

Electric Utilities. Prices are reported for each plant in cents-per-million Btu on FERC Form 423. The price per ton of coal is calculated at each plant using cents-per-million Btu and the average Btu content per pound of coal for the appropriate rank of coal. The average prices appearing in the tables (e.g., across all States) are calculated by summing the dollar value at each plant (short tons of coal x price per short ton) and dividing by the corresponding total tons. For more information about prices of coal at *electric utilities*, see the EIA publication, *Electric Power Monthly* (DOE/EIA-0226).

Coke Plants. Respondents are asked to report the number of tons of coal received (or coke distributed) on Form EIA-5 and the total value of that coal (or coke) in dollars. Average prices are calculated by summing the reported values (e.g., across all States) and dividing by the corresponding total tons.

Other Industrial Plants. Respondents (manufacturing plants only) are asked to report the number of tons of coal received on Form EIA-3 and the total value of that coal in dollars. Average prices are calculated by summing the reported values across all States and dividing by the corresponding total tons.

Residential and Commercial. Data are not collected. See Technical Note 3.

6. Consumption

Quarterly Data

Coal consumption data are derived for each end-use sector as follows:

Electric Utilities. Consumption is reported on Form EIA-759.

Coke Plants. Consumption is reported on Form EIA-5.

Other Industrial Plants. In deriving a quarterly estimate for coal consumption for the *other industrial plants* sector, the first step is to equate consumption to beginning stocks plus receipts minus ending stocks. In terms of an equation, consumption can be expressed as $C = S_b + R - S_e$, where S_b = beginning stocks, R = receipts, and S_e = ending stocks.

Therefore, consumption is $C = (S_b - S_e \text{ (change in stocks)}) + R$. Next, stock change at the State level is equated to the stock change for that State as reported on Form EIA-3, receipts at the State level are derived as described in Section 3, and a computed consumption is derived using the same equation for each State. Finally, the quarterly consumption (C) at the State level is equated to the maximum of the computed consumption at the State level, as previously described, and the quarterly consumption for that State as reported on Form EIA-3. This process ensures that State-level consumption for the *other industrial plants* sector is always greater than or equal to the *manufacturing* sector consumption for that State. Total quarterly consumption for the *other industrial plants* sector is computed by summing the quarterly State-level consumption figures.

Residential and Commercial. Shipments to the *residential and commercial* sector as reported on Form EIA-6 are defined as consumption as well as receipts for this end-use sector.

Monthly Data

EIA publishes monthly estimates of coal consumption in the *Monthly Energy Review* (DOE/EIA-0035).

Monthly coal consumption at electric utility plants is derived directly from Form EIA-759. Prior to 1980, monthly coal consumption at coke plants was derived directly from Form EIA-5. For 1981 through 1987, it was derived from the quarterly coal consumption reported on Form EIA-5, using the ratios of monthly to quarterly consumption in 1979, the last year that coke plant data were collected monthly on Form EIA-5. These ratios by month (January - December) are 0.3377, 0.3200, 0.3423; 0.3529, 0.3462, 0.3009; 0.3364, 0.3347, 0.3289; and 0.3273, 0.3301, 0.3426.

Starting with 1988, monthly coal consumption at coke plants is derived from quarterly coal consumption reported on Form EIA-5, using ratios derived from monthly data on raw steel production published by the American Iron and Steel Institute (AIS) on Form AIS7. The ratio is the proportion of monthly raw steel production from open hearth and basic oxygen process furnaces to the quarterly raw steel production from those furnace types.

Prior to 1978, coal consumption for the *other industrial plants* sector (i.e., industrial users minus coke plants) was derived by using monthly data reported on Form EIA-3 to modify baseline coal consumption figures from the most recent Census of Manufactures or Annual Survey of Manufactures, Bureau of the Census, U.S. Department of Commerce. For 1978 through 1987, data from Forms EIA-3 and EIA-6 are used to compute

monthly coal consumption for the *other industrial plants* sector.

Given the quarterly consumption for the *other industrial plants* sector (C), the monthly consumption for the sector (Cm) is estimated for each month in the quarter as $C_m = (C_{m3}/C_3) \times C$ where C_{m3}/C_3 is the ratio of monthly to quarterly coal consumption as reported on Form EIA-3. For the 1978 coal consumption figures, the ratios used are based on 1978 EIA-3 data. For 1979 through 1987, the ratios used are based on the 1979 EIA-3 data. These 1979 ratios by month (January - December) are 0.3593, 0.3264, 0.3143; 0.3485, 0.3332, 0.3183; 0.3317, 0.3407, 0.3276; and 0.3045, 0.3253, 0.3702.

Starting with 1988, monthly coal consumption for the *other industrial plants* sector is derived from quarterly coal consumption reported on Form EIA-3 using monthly ratios derived from the industrial production indices published by the Board of Governors of the Federal Reserve System. Six major industry groups' indices are used as the basis for calculating the monthly ratios. These groups are foods (Standard Industrial Classification (SIC) 20), paper and products (SIC 26), chemicals and products (SIC 28), petroleum products (SIC 29), clay, glass, stone products (SIC 32), and primary metals (SIC 33).

The monthly ratios are computed as the monthly sum of weighted indices as a proportion of the quarterly sum of weighted indices, using the 1985 proportion as the weight.

Prior to 1980, monthly coal consumption for the *residential and commercial* sector was derived by using monthly data reported on Form EIA-2, "Monthly Coal Report - Retail Dealers and Upper Lake Docks," to modify baseline coal consumption figures developed by the Bureau of Mines, U.S. Department of the Interior.

For 1980, the quarterly coal consumption figures in the *residential and commercial* sector are converted to monthly coal consumption figures using the ratios of monthly to quarterly coal deliveries to this sector in 1979 as reported on Form EIA-2. These 1979 ratios by month (January-December) are 0.4002, 0.3502, 0.2496; 0.4805, 0.2901, 0.2294; 0.3126, 0.2952, 0.3922; and 0.2931, 0.3101, 0.3968. The 1981 and 1982 monthly coal consumption figures were derived using the 1979 ratios but were also modified according to heating/cooling degree-days. For 1983 through 1987, coal consumption figures are converted to monthly coal consumption figures using only the ratios of monthly to quarterly coal deliveries to this sector in 1979.

Starting with 1988, monthly coal consumption figures are derived using the monthly national average population weighted heating/cooling degree-days obtained from the National Oceanic and Atmospheric Administration. The ratio is the proportion of the monthly

national sum of heating and cooling degree-days to the quarterly sum.

7. Stocks

Quarterly Data

Coal stocks are derived for each end-use sector as follows:

Electric Utilities. Stocks are reported on Form EIA-759.

Coke Plants. Stocks are reported on Form EIA-5.

Other Industrial Plants. Stocks are reported on Form EIA-3, i.e., stocks at *manufacturing* plants only. Technical Note 1 discusses the difference between *other industrial plants* and *manufacturing plants*.

Residential and Commercial. Data are not available. See Technical Note 3.

Producer and Distributor. Stocks are reported on Form EIA-6.

Monthly Data

EIA publishes monthly estimates of coal stocks in the *Monthly Energy Review* (DOE/EIA-0035).

Coal stocks at electric utility plants are derived directly from Form EIA-759. Prior to 1980, coal stocks at coke plants were derived directly from Form EIA-5. For 1980 and subsequent years, the stock level at the end of the first month of a quarter is derived as ending stocks for the previous quarter plus (minus) one-third of the current quarterly stock increase (decrease), as reported on the Form EIA-5. The stock level at the end of the second month is equal to the stock level at the end of the first month plus (minus) one-third of the current quarterly stock increase (decrease). The stock level at the end of the third month is equal to the stock level at the end of the current quarter.

Prior to 1978, coal stocks for the *other industrial plants* sector (i.e., industrial users minus coke plants) were derived by using monthly data reported on Form EIA-3, to modify baseline coal stock figures from a one-time survey of coal consumers by the Bureau of Mines, U.S. Department of the Interior. For 1978 and subsequent years, the data source for stocks in the *other industrial plants* sector is Form EIA-3. Quarterly stock changes in the period 1978-1982 were judgmentally

apportioned by month, based on seasonal influences on supply and demand for coal in steam-coal markets. For 1983 and subsequent years, quarterly stock changes reported on Form EIA-3 are apportioned by month in the same manner as described for coke plants in the preceding paragraph.

8. Production

Estimates of coal production by region and State are published in this report for the current quarter (Table 4). These estimates are derived from Form EIA-6, Form 7000-2 (Mine Safety and Health Administration (MSHA), U.S. Department of Labor), and from State mining agency coal production reports. The EIA also publishes monthly estimates of total coal production in the *Monthly Energy Review* (DOE/EIA-0035) and monthly and weekly estimates by State in the *Weekly Coal Production* report (DOE/EIA-0218). Final coal production data for the year are shown both in the *Quarterly Coal Report* (DOE/EIA-0121) and in the *Coal Production* report (DOE/EIA-0118).

Weekly Data

Estimates of national weekly coal production are based on weekly carload data collected by the Association of American Railroads (AAR) from its members (Class I Railroads) and certain other railroads. EIA calculates the average number of tons per carload for each railroad's coal car fleet from information obtained from the most recent Quarterly Freight Commodity Statistics filed by Class I Railroads with the Interstate Commerce Commission (ICC) and from data made available by individual railroads. The average number of tons per carload is then multiplied by the number of cars loaded to obtain an estimate of weekly production shipped by AAR railroads.

Next, the estimate of coal shipped by AAR railroads for the week is converted to total coal produced by all States for the week. This U.S. weekly coal production estimate for a specific week is obtained by dividing the AAR rail tonnage for the week by a factor representing the proportion of quarterly AAR rail shipments to total quarterly coal production. Because this is done on a weekly basis, and prior to completion of current quarterly statistics, the factor used is derived, using ICC data on tons per carload and total carloadings and from EIA data on total production for the same quarter of the previous year. Figures for the same quarter of the year are used in order to reflect seasonal variation. In some cases, the ratio of rail tonnage to total production is adjusted to take additional, more current information into consideration, such as rail or coal strikes.

Once the U.S. weekly coal production estimate is determined, this total is split into two subtotals - the portion representing States with little or no rail coal shipments, and the portion representing the remaining States, where a significant percentage of production is shipped by rail. The States with little or no railroad coal shipments are Alaska, Arizona, California, and Georgia (when producing), Iowa, Louisiana, Missouri, Texas, and Washington. With the exception of California and Louisiana, production data for each "nonrail" State are developed by multiplying the estimate of U.S. weekly coal production by the ratio of projected production for each State to U.S. total projected production, for the current quarter. The methodology used to project State coal production is given in the EIA publication, *Model Documentation of the Short-Term Coal Analysis System* (DOE/EIA-0394). The EIA contacts two producers in Louisiana to develop weekly production data for Louisiana. California production is irregular and is developed by contacting the sole producer in California.

Estimates for the remaining States are in aggregate equal to the U.S. weekly coal production minus the estimated production from the nonrail States. Estimates for "rail States" are based on the AAR carload data compiled by State of origin, including separate estimates for the anthracite and bituminous coal regions in Pennsylvania and eastern and western Kentucky. To determine State of origin, EIA uses information obtained directly from the AAR railroads.

Each railroad's share of rail traffic originating in the States it serves is applied to the current week's tonnage derived from system-wide carloading reports filed with AAR. The tonnages loaded by the various railroads are then summed by each State to estimate total production shipped by AAR rail for that State. These tonnages are divided by the most recent ratio of annual AAR rail tonnage to total annual production for each State. The resulting weekly coal production estimates for the rail States are then adjusted to ensure that each State's production figure contributes proportionately to the weekly coal production estimate previously derived in aggregate for the rail States.

Monthly Data

Preliminary estimates of monthly coal production by State are obtained by summing weekly coal production estimates published in the *Weekly Coal Production* report. If a week extends into a new month, the production is allocated by day, and the days are added to the month in which they occur. For weeks without holidays, the allocation is Monday through Friday, 18.4 percent each day; Saturday, 8 percent; and Sunday, 0 percent. For weeks with a holiday occurring on a day other than Sunday, the allocation is the holiday, 0 percent; and any other day, 20 percent.

Preliminary weekly and monthly production estimates are revised quarterly when quarterly production data become available. Preliminary weekly and monthly estimates are proportionately adjusted to conform to the quarterly production figure.

Quarterly Data

Estimates of quarterly coal production are equated to the data collected quarterly on Form EIA-6. The national estimate of quarterly coal production is set equal to the quarterly U.S. coal production and purchases totals as reported on the Form EIA-6. Quarterly State production figures are equated to the State level production and purchases totals as reported on Form EIA-6.

The quarterly production data, although published throughout the year, are considered preliminary until EIA annual production data are finalized in September of the following year. At that time, quarterly production data are revised (proportionately adjusted) to conform to the final annual production figures.

Finalizing of Annual Production

Preliminary total annual U.S. coal production, as reported in the *Weekly Coal Production* report in the first week in January of the following year, is the sum of revised monthly/quarterly estimates of production for the first 9 months (first three quarters) and a preliminary estimate of fourth quarter production derived from weekly estimates. When production data for the fourth quarter of the year become available from Form EIA-6 in March of the following year, the preliminary fourth-quarter U.S. total production figure and the preliminary State-level corresponding production figures may or may not be revised, depending on the size of the difference between the estimates and fourth-quarter data. EIA attempts not to revise the initial annual production estimates (determined initially in January of the following year) until production data are finalized in September of the following year. In some cases, quarterly, monthly, or weekly estimates may be revised without revisions to U.S. total estimates, based on available monthly or quarterly State coal production reports.

Weekly, monthly, and quarterly State and national production data are adjusted to conform to finalized annual production figures in September of the following year.

9. Methods of Transportation

Rail: Shipments of coal moved to consumers by rail, either private or public/commercial. Included is coal hauled to or away from a railroad siding by truck.

Water Transportation: Shipments of coal moved by one of the three methods--river, great lakes, or tidewater piers and coastal ports. Included in these shipments is coal hauled to or from water-loading facilities by other means of transportation.

River: Shipments of coal moved to consumers via river by barge, except shipments to Great Lakes coal-loading docks or tidewater piers or coastal ports.

Great Lakes: Shipments of coal moved to consumers via the Great Lakes. These shipments are moved via the Great Lakes coal-loading docks, which are identified by name and locations as follows: Superior Midwest Energy Terminal, Superior, Wisconsin; Bessemer & Lake Erie Coal Storage & Transfer Facility, Conneaut, Ohio; B&O Railroad Coal-Loading Dock, Lorain, Ohio; C&O Railroad Presque Isle Docks, Toledo, Ohio; Lakefront Dock & Railroad Terminal Company Coal-Loading Dock, Toledo, Ohio; N&W Sandusky Coal Pier No. 3, Sandusky, Ohio; ConRail Coal Transfer Facilities, Ashtabula, Ohio; Rail to Water Transfer Corporation Dock, Chicago, Illinois.

Tidewater Piers and Coastal Ports: Shipments of coal moved to tidewater piers and coastal ports for further shipments to consumers via coastal water or ocean. The tidewater piers are identified by name and location as follows: B&O Curtis Bay Coal Piers, Baltimore, Maryland; C&O Coal Piers Nos. 14 & 15, Newport News, Virginia; N&W Lamberts Point Coal Piers Nos. 5 & 6, Norfolk, Virginia; Alabama State Docks Bulk Handling Plant, Mobile, Alabama; Alabama State Docks/McDuffie Terminals, Mobile, Alabama; Canton Coal Piers, Baltimore Harbor on the Chesapeake Bay; Greenwich Coal Pier, Greenwich Point, Philadelphia, Pennsylvania on Delaware River; Port Richmond Pier, Pier 18 Port Richmond, Philadelphia, Pa. on the Delaware River; Galveston Regional Coal Distribution Center, Pelican Island, Galveston, Texas; International Marine Terminals/Plaquemines Parish Terminal, Mile 57 AHP-Mississippi River, approximately 30 miles south of New Orleans; Energy Terminals of Houston, Inc., a Subsidiary of Soros Associates, Houston, Texas. Coastal Ports are those located at Charleston, South Carolina; New York, New York; San Diego, California; Los Angeles, California; and Seattle, Washington.

Truck: Shipments of coal moved to consumers by truck.

Tramway, Conveyor, or Slurry Pipeline: Shipments of coal moved to consumers by tramway, conveyor, or slurry pipeline.

10. Census Export and Import Data

Export and import data are obtained from the Bureau of the Census, U.S. Department of Commerce, where they are compiled monthly from documents filed with the U.S. Customs Service, as required by law.

Each coal shipment is reported in short tons with corresponding total dollar values. EIA converts all value data obtained from the Census Bureau to average price data by dividing the dollar value by the quantity.

Based on an analysis and sample validation of the Census Bureau import and export data conducted by the EIA, it was determined that some of the coal and coke data collected from the Census Bureau may be misleading or incorrect (particularly those data associated with very small quantities or very high prices). Because of this, a methodology was developed to edit the Census Bureau price data.

Prior to 1989, certain data cells had been suppressed for publication purposes only: (1) average import coal prices of \$50.00 or more per short ton; (2) average export coal prices of \$60.00 or more per short ton; (3) average coke prices of \$200.00 or more per short ton; (4) all percent changes of 500 percent or more.

Beginning with 1989, coal export data were categorized as metallurgical coal and steam coal, rather than as bituminous steam coal, lignite, anthracite and bituminous metallurgical coal.

In addition, coal export tables were revised to present those countries to which the United States exported more than 50,000 short tons in the prior calendar year. The remaining countries in each continent were aggregated in an "other" category. This reduces the number of empty cells and highlights the major importers of U.S. coal. All coke export and import, and coal import countries and quantities are displayed.

The following methodology was used to derive the typical average prices as presented in the price tables. For all coal, a price distribution was derived from the prior calendar year export price data. Since extreme price variations in the Census Bureau data are the exception rather than the rule, the price distribution was used to identify a typical price range. The price distribution, from low to high, along with the frequency of each price (quantity) was analyzed to determine the representative prices. The extreme prices at both ends of the distribution were eliminated to arrive at a price range that covered at least 90 percent of the exports. This price range was considered to include typical or representative prices. Considering the records that fell within the typical price range, the weighted average price was calculated by country of destination and type of coal.

The same procedure was used to determine the typical average prices of coal imports. In addition to the average prices based on the above methodology, a U.S. total row is presented in the price tables, which represents the average price using all the Census Bureau data.

For reporting purposes, the month of exportation reflects the month in which the shipment leaves the United States. The month of importation generally is based on the month in which the U.S. Customs Service releases the merchandise to the importer. For both sets of data, however, there can exist a small carry-over from the actual month of exportation or importation to a subsequent month, usually the succeeding month. A number of factors in processing account for this, e.g., late receipt of a document for an end-of-month shipment, or rejection of a shipment by the computer due to failure to meet established edit criteria. These limitations should be considered when making comparisons.

Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

11. Metric Data

Selected quarterly tables are converted to metric tons by multiplying the underlying data by the factor .907185. The metric data in Appendix B are derived from the following tables:

Tables 1, 45, 52, 14/15, 16, 17, 18, 19, 20, 21, 24, and 25, and are presented, respectively, in Tables B1 through B12.

12. Revisions

The Office of Coal, Nuclear, Electric and Alternate Fuels has adopted the following policy with respect

to the revision and correction of recurrent data in energy publications:

1. Annual survey data collected by this office are published either as preliminary or final when first appearing in a data report. Data initially released as preliminary will be so noted in the report. These data will be revised, if necessary, and declared final in the next publication of the data.

2. All monthly and quarterly survey data collected by this office are published as preliminary. These data are revised only after the completion of the 12-month cycle of the data. No revisions are made to the published data before this.

3. The magnitudes of changes due to revisions experienced in the past will be included in the data reports, so that the reader can assess the accuracy of the data.

4. After data are published as final, corrections will be made only in the event of a greater than one percent difference at the national level. Corrections for differences that are less than the before-mentioned threshold are left to the discretion of the Office Director.

Revisions to data appearing in this publication are made according to the schedules described in the discussions of the individual survey forms. The magnitudes of revisions are generally less than .25 percent at the national level. For 1991, the revisions ranges for the first through fourth quarters were as follows: (1) production from .08 percent to .23 percent; (2) consumption from .07 percent to .27 percent; (3) consumer stocks from .08 percent to .98 percent; and (4) receipts from .03 percent to .87 percent.

13. Approximate Heat Content of Coal

Table C1 presents the approximate heat content of coal by rank and disposition for 1979 through 1992.

Table C1. Approximate Heat Content of Coal
(Million Btu per Short Ton)

Coal Rank Sector	1979	1980	1981	1982	1983	1984	1985
Anthracite							
Production	23.170	22.869	23.291	23.289	22.734	23.107	22.428
Consumption	22.069	21.405	22.080	22.518	21.583	22.322	20.817
Non-electric utility users	24.272	22.719	23.749	24.578	24.536	25.128	23.031
Electric utilities	17.454	17.652	18.168	18.160	16.518	17.018	16.784
Imports and exports	25.400	25.400	25.400	25.400	25.400	25.400	25.400
Bituminous Coal and Lignite							
Production	22.449	22.411	22.301	22.233	22.048	22.005	21.867
Consumption	22.100	21.950	21.710	21.670	21.576	21.570	21.368
Residential and commercial	21.884	22.488	22.010	22.226	22.438	22.406	22.568
Coke plants	26.800	26.800	26.800	26.800	26.800	26.800	26.800
Other industrial and transportation	22.436	22.690	22.572	22.695	22.680	22.525	22.013
Electric utilities	21.372	21.301	21.091	21.200	21.141	21.108	20.965
Imports	25.000	25.000	25.000	25.000	25.000	25.000	25.000
Exports	26.570	26.404	26.176	26.231	26.300	26.410	26.320
Coal Coke	24.800	24.800	24.800	24.800	24.800	24.800	24.800
	1986	1987	1988	1989	1990	1991	1992
Anthracite							
Production	23.084	23.108	23.266	23.385	22.574	22.573	22.573
Consumption	21.512	22.435	22.423	22.623	21.668	21.410	21.410
Non-electric utility users	24.399	26.293	26.021	27.196	25.199	25.268	26.268
Electric utilities	15.578	15.962	17.312	16.310	16.140	15.858	15.858
Imports and exports	25.400	25.400	25.400	25.400	25.400	25.400	25.400
Bituminous Coal and Lignite							
Production	21.908	21.918	21.817	21.759	21.819	21.678	21.687
Consumption	21.462	21.514	21.324	21.268	21.330	21.146	21.146
Residential and commercial	22.669	22.800	23.135	22.917	22.678	22.635	22.635
Coke plants	26.800	26.800	26.800	26.800	26.800	26.800	26.800
Other industrial and transportation	22.185	22.360	22.341	22.324	22.444	22.448	22.448
Electric utilities	21.091	21.143	20.905	20.854	20.935	20.761	20.761
Imports	25.000	25.000	25.000	25.000	25.000	25.000	25.000
Exports	26.308	26.304	26.308	26.166	26.207	26.192	26.192
Coal Coke	24.800	24.800	24.800	24.800	24.800	24.800	24.800

Note: Values for 1991 are final. Values for 1992 are preliminary.

Glossary

Anthracite: A hard, black, lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. Comprises three groups classified according to the following American Society for Testing and Materials (ASTM) Specification D388-84, on a dry mineral-matter-free (mmf) basis:

	Fixed Carbon Limits		Volatile Matter	
	GE	LT	GT	LE
Meta-Anthracite	98	-	-	2
Anthracite	92	98	2	8
Semianthracite	86	92	8	14

GE = Greater than or equal to
 LT = Less than
 GT = Greater than
 LE = Less than or equal to

Ash: Impurities consisting of silica, iron, alumina, and other incombustible matter that are contained in coal. Ash increases the weight of coal, adds to the cost of handling, and can affect the burning characteristics. Ash content is measured as a percent by weight of coal on an "as received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

Bituminous Coal: The most common coal. It is dense and black (often with well-defined bands of bright and dull material). Its moisture content usually is less than 20 percent. It is used for generating electricity, making coke, and space heating. Comprises five groups classified according to the following ASTM Specification D388-84, on a dry mineral-matter-free basis for fixed-carbon and volatile matter and a moist mmf basis for calorific value.

	Fixed Carbon Limits		Volatile Matter Limits		Calorific Value Limits Btu/lb.	
	GE	LT	GT	LT	GE	LE
LV	78	86	14	22	-	-
MV	69	78	22	31	-	-
HVA	-	69	31	-	14000	-
HVB	-	-	-	-	13000	14000
HVC	-	-	-	-	10500	13000

LV = Low-volatile bituminous coal
 MV = Medium-volatile bituminous coal
 HVA = High-volatile A bituminous coal
 HVB = High-volatile B bituminous coal
 HVC = High-volatile C bituminous coal
 GE = Greater than or equal to
 LT = Less than
 GT = Greater than
 LE = Less than or equal to

Blast Furnace: A furnace in which solid fuel (coke) is burned with an air blast to smelt ore.

Breeze: The fine screenings from crushed coke. Usually breeze will pass through a 1/2-inch or 3/4-inch screen opening. It is most often used as a fuel source in the process of agglomerating iron ore.

Btu (British thermal unit): The amount of heat needed to raise the temperature of 1 pound of water by 1 degree Fahrenheit. The Btu is a convenient measure by which to compare the energy content of various fuels.

Census Divisions: The nine geographic divisions of the United States established by the Bureau of the Census, U.S. Department of Commerce for statistical analysis. The boundaries of Census divisions coincide with State boundaries. In some cases, the Pacific Division is subdivided into the Pacific Contiguous and Pacific Noncontiguous areas.

Census Divisions

Coal Carbonized: The amount of coal decomposed into solid coke and gaseous products by heating in a coke oven in a limited air supply or in the absence of air.

Coal-Producing Regions: A geographic classification of coal-producing States. The States in the Appalachian Region are Alabama, Georgia, Eastern Kentucky, Maryland, Ohio, Pennsylvania, Tennessee, Virginia, and West Virginia. The Interior Region States are Arkansas, Illinois, Indiana, Iowa, Kansas, Western Kentucky, Louisiana, Missouri, Oklahoma, and Texas. Alaska, Arizona, California, Colorado, Montana, New Mexico, North Dakota, Utah, Washington, and Wyoming are States in the Western Region.

Coal-Producing States: The States where mined and/or purchased coal originates are defined as follows: Alabama, Alaska, Arizona, Arkansas, California, Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky Eastern, Kentucky Western, Louisiana, Maryland, Missouri, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania anthracite, Pennsylvania bituminous, Tennessee, Texas, Utah, Virginia, Washington, West Virginia Northern, West Virginia Southern, and Wyoming.

The following Coal-Producing States are split in origin of coal, as defined below:

Kentucky, Eastern: All mines located in counties other than the Western Kentucky counties.

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

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

Pennsylvania Bituminous: All mines located in counties other than the Pennsylvania anthracite counties and all bituminous mines in Bradford County.

West Virginia, Northern: All mines in the following counties (formerly defined as Coal-Producing Districts 1, 3, & 6): Barbour, Brooke, Braxton, Calhoun, Doddridge, Gilmer, Grant, Hancock, Harrison, Jackson, Lewis, Marion, Marshall, Mineral, Monongalia, Ohio, Pleasants, Preston, Randolph, Ritchie, Roane, Taylor, Tucker, Upshur, Webster, Wetzel, Wirt, and Wood.

West Virginia, Southern: All mines in the following counties (formerly defined as Coal-Producing Districts 7 & 8): Boone, Cabell, Clay, Fayette, Greenbrier, Kanawha, Lincoln, Logan, Mason, McDowell, Mercer, Mingo, Monroe, Nicholas, Pocahontas, Putnam, Raleigh, Summers, Wayne, and Wyoming.

Coal Rank: A classification of coal based on fixed carbon, volatile matter, heating value, and agglomerating character. It is an indication of the progressive alteration, or coalification, from lignite to anthracite. The rank of coal can also be determined by measuring the reflectance of vitrinite, one of the several organic components (macerals) of coal.

Coke (coal): In general, coke is made from bituminous coal (or blends of bituminous coal) from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000 degrees Fahrenheit, so that the fixed carbon and ash are fused together. Coke is hard and porous, has a gray, submetallic luster, and is strong enough to support a load of iron ore in a blast furnace. It is used both as a fuel and a reducing agent in smelting iron ore in a blast furnace. Coke has a heating value of 24.8 million Btu per short ton.

Coke Plants: Plants where coal is carbonized in slot or beehive ovens for the manufacture of coke.

Electric Utilities: All privately owned companies and all publicly owned agencies engaged in the generation, transmission, or distribution of electric power for public use. Publicly owned agencies include municipal electric utilities, Federal power projects, such as the Tennessee Valley Authority (TVA), rural electrification cooperatives, power districts, and State power projects.

f.a.s. Value: Free alongside ship value. The value of a commodity at the port of exportation, generally including the purchase price plus all charges incurred in placing the commodity alongside the carrier at the port of exportation in the country of exportation.

f.o.b. Value: Free on board value. This is the value of coal at the coal mine or of coke and breeze at the coke

plant without any insurance or freight transportation charges added.

Foundry: An operation where metal castings are produced, using coke as a fuel.

Furnace Coke Plant: A coke plant whose coke production is used primarily by the producing company.

Lignite: A brownish-black coal of low rank with high inherent moisture and volatile matter (used almost exclusively for electric power generation). It is also referred to as brown coal. Comprises two groups classified according to the following ASTM Specification D388-84 for calorific values on a moist material-matter-free basis:

	Limits Btu/lb.	
	GE	LT
Lignite A	6300	8300
Lignite B	-	6300

GE = Greater than or equal to
LT = Less than

Merchant Coke Plant: A coke plant where coke is produced primarily for sale on the commercial (open) market.

Metric Ton: A unit of weight equal to 2,204.6 pounds.

Other Industrial Plant: Industrial users, not including coke plants, engaged in the mechanical or chemical transformation of materials or substances into new products (manufacturing); and companies engaged in the agriculture, mining, or construction industries.

Preparation Plant: A mining facility at which coal is crushed, screened, and mechanically cleaned.

Residential and Commercial Sector: Housing units; wholesale and retail businesses (except coal wholesale dealers); health institutions (hospitals); social and educational institutions (schools and universities); and Federal, State, and local governments (military installations, prisons, office buildings).

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

Stocks: The supply of coal or coke at a mine, plant, or utility at the end of the reporting period.

Subbituminous Coal: A dull black coal of rank intermediate between lignite and bituminous, consisting of subbituminous A coal, subbituminous B coal, and subbituminous C coal, classified according to the following ASTM Specification D388-84 on a moist mineral-matter-free basis:

	Calorific Value Limits Btu/lb.	
	GE	LT
Subbituminous A Coal	10500	11500
Subbituminous B Coal	9500	10500
Subbituminous C Coal	8300	9500

GE = Greater than or equal to
LT = Less than

Sulfur: One of the elements present in varying quantities in coal that contributes to environmental degra-

ation when coal is burned. In terms of sulfur content by weight, coal is generally classified as low (less than or equal to one percent), medium (greater than one percent and less than or equal to three percent), and high (greater than three percent). Sulfur content is measured as a percent by weight of coal on an "as received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

Surface Mine: A coal-producing mine that is usually within a few hundred feet of the surface. Earth above or around the coal (overburden) is removed to expose the coalbed, which is then mined with surface excavation equipment such as draglines, power shovels, bulldozers, loaders, and augers. It may also be known as an area, contour, open-pit, strip, or auger mine.

Underground Mine: A mine where coal is produced by tunneling into the earth to the coalbed, which is then mined with underground mining equipment such as cutting machines and continuous, longwall, and shortwall mining machines. Underground mines are classified according to the type of opening used to reach the coal, i.e., drift (level tunnel), slope (inclined tunnel), or shaft (vertical tunnel).

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