1 of 2

Quarterly Coal Report April-June 1993

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MASTER

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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 April through June 1993 and aggregated quarterly historical data for 1985 through the first quarter of 1993. 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 1992 (DOE/EIA-0384(92)),
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 1993 are preliminary and all data shown for 1992 and previous years are final. Coal production data for 1992 and previous years were based on the annual survey Form EIA-7A, "Coal Production Report." Coal production data for 1993 are preliminary and are based on the quarterly survey Form EIA-6, "Coal Distribution Report."

A description of the revision policy for the data in this report can be found in Appendix C, Explanatory Notes, Section 12. Revisions. Table C1 presents the mean absolute value of change for 1991 and 1992 for selected data presented in this 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	141
C. Explanatory Notes	155
Glossary	165

Illustrations

	Page
1. Quarterly U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1985-1993 . . .	3
2. U.S. Coke Production, Imports, Consumption, Exports, and Stocks, 1985-1993	5
3. U.S. Quarterly Coal Production, 1985-1993	14
4. Quarterly Domestic Coal Distribution by End-Use Sector, 1985-1993	18
5. Domestic Distribution of U.S. Coal by Leading State Destination, January-June 1993	23
6. Quarterly Domestic Coal Distribution by Method of Transportation, 1985-1993	28
7. Quarterly U.S. Coal Exports and Imports, 1985-1993	39
8. Quarterly U.S. Coal Receipts, 1985-1993	52
9. Quarterly Average Price of U.S. Coal Receipts, 1985-1993	54
10. Quarterly U.S. Coal Consumption, 1985-1993	76
11. Quarterly U.S. Coal Stocks, 1985-1993	86

Tables

Page

1.	U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1985-1993	4
2.	U.S. Coke Production, Imports, Consumption, Exports, and Stocks, 1985-1993	6
3.	U.S. Coal Production, 1985-1993	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-June 1993	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, 1985-1993	38
15.	Average Price of U.S. Coal Exports and Imports, 1985-1993	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	48
27.	U.S. Coke Imports	49
28.	U.S. Coal Receipts by End-Use Sector, 1985-1993	53
29.	Average Price of Coal Receipts by End-Use Sector, 1985-1993	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-June 1993	61
36.	Destination of Coal Received at Electric Utility Plants by Origin, January-June 1993, 1992	62
37.	Origin of Coal Received at Electric Utility Plants by Destination, January-June 1993, 1992	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, 1985-1993	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, 1985-1993	87
53.	Consumer Coal Stocks by Census Division and State, June 30, 1993	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, 1985-1993	98
A2.	Quantity and Average Price of U.S. Coal Imports by Origin, 1985-1993	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, 1980-1993 ..	103
A7.	Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993	109
B1.	U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1985-1993	142
B2.	U.S. Coal Consumption by End-Use Sector, 1985-1993	143
B3.	U.S. Coal Stocks, 1985-1993	144
B4.	U.S. Coal Exports and Imports, 1985-1993	145
B5.	U.S. Coal Exports	146
B6.	Average Price of U.S. Coal Exports	147
B7.	U.S. Steam Coal Exports	148
B8.	Average Price of U.S. Steam Coal Exports	149
B9.	U.S. Metallurgical Coal Exports	150
B10.	Average Price of U.S. Metallurgical Coal Exports	151
B11.	U.S. Coal Imports	152
B12.	Average Price of U.S. Coal Imports	152
C1.	Accuracy of Preliminary Quarterly Values Compared With Final Quarterly Valuse at the U.S. Level, 1991 and 1992	163
C2.	Approximate Heat Content of Coal	164

Executive Summary

In the second quarter of 1993, the United States produced 235 million short tons of coal (Table 1). This brought the total for the first half of 1993 to 477 million short tons, a decrease of 4 percent (21 million short tons) from the amount produced during the first half of 1992 (Table 4). The decrease was due to a 26-million-short-ton decline in production east of the Mississippi River, which was partially offset by a 5-million-short-ton increase in coal production west of the Mississippi River. Compared with the first 6 months of 1992, all States east of the Mississippi River had lower coal production levels, led by West Virginia and Illinois, which produced 9 million short tons and 7 million short tons less coal, respectively.

The principal reasons for the drop in coal output for the first 6 months of 1993 compared to a year earlier were: a decrease in demand for U.S. coal in foreign markets, particularly the steam coal markets; a draw-down of electric utility coal stocks to meet the increase in demand for coal-fired electricity generation; and a lower producer/distributor stock build-up.

Distribution of U.S. coal in the first half of 1993 was 15 million short tons lower than in the first half of 1992, with 13 million short tons less distributed to overseas markets and 2 million short tons less distributed to domestic markets (Table 9).

U.S. coal exports amounted to 39 million short tons in the first half of 1993, 13 million short tons less than in the first half of 1992 (Table 16). The decline was primarily due to a 2-million-short-ton drop in exports to each of the following destinations: France, Canada, Italy, and Denmark. The five leading destinations for U.S. coal exports were Japan, Canada, Italy, the Netherlands, and Brazil, together receiving 50 percent of the total. Coal exports for the first half of 1993 were valued at \$1.6 billion, based on an average price of \$41.93 per short ton (Table 17). The Customs District of Norfolk, Virginia, handled 54 percent of all coal exported during the first half of 1993 (Table 22).

In the first 6 months of 1993, steam coal exports totaled 13 million short tons, a decrease of 39 percent from the level a year earlier (Table 18). Canada, Denmark, and France were primarily responsible for the decrease. Canada's imports of U.S. steam coal have dropped due to the slumping demand for electricity because of the recession, and the coming on-line last spring of the last unit of Ontario Hydro's 3,600 MW

Darlington nuclear plant. The five leading destinations (Japan, Canada, Taiwan, the Netherlands, and Italy) accounted for 56 percent of all steam coal exports.

Metallurgical coal exports in the first half of 1993 amounted to 26 million short tons, a 15-percent decrease from a year earlier (Table 20). Italy, Japan, the Netherlands, Belgium and Luxembourg, and France accounted for most of this decline. Some of the reasons for the decline in imports of U.S. metallurgical coal overseas are: the slow worldwide economic recovery; and, the increased use by the steel industry of steam coal in the pulverized coal injection process, which reduces the demand for coke.

U.S. coal imports in the first half of 1993 reached 2.3 million short tons, a 34-percent increase from the level in the first half of 1992 (Table 24). Most of the increase was due to higher demand for imported coal from: Indonesia, by an independent power producer in Hawaii; Colombia, by the Jacksonville Electric Authority's St. Johns River Plant in Florida; and Venezuela, by industrial plants.

The amount of coal received by domestic consumers in the second quarter of 1993 totaled 218 million short tons, bringing the total for the first half of 1993 to 435 million short tons. This was 2 million short tons more than in the first half of 1992, due to a slight increase in coal demand in all sectors, except for coke plants (Table 28). In the first 6 months of 1993, spot coal receipts at electric utilities were 13 percent higher than in the final half of 1992. Compared with the first half of 1992, the average price of coal delivered to all sectors went down slightly.

Coal consumption in the second quarter of 1993 was 216 million short tons. This brought the total for the first 6 months of 1993 to 445 million short tons, 3.5 percent higher than in the first half of 1992, primarily due to a 4-percent increase in consumption at electric utility plants (Table 47). Most of this increase occurred in the West South Central, East South Central, and South Atlantic Census Divisions, where coal-fired generation was used to meet the elevated electricity demand and to substitute for the loss of generation from nuclear-powered plants that were temporarily out of operation for maintenance. In addition, increases occurred in the East North Central and West North Central Census Divisions, where nuclear-powered and

coal-fired generation were used to meet the increase in demand for electricity in those regions.

Electric utility coal stocks, at 145 million short tons, were at their lowest second-quarter level since 1981, and the other industrial stocks, at 6 million short tons, were at the lowest second-quarter level since 1979 (Table 52). Producer and distributor stocks totaled 35 mil-

lion short tons, the lowest second-quarter level since 1989.

Source: Energy Information Administration,
Electric Power Monthly, September 1993
(DOE/EIA-0226(93/09));
Quarterly Coal Report(DOE/EIA-0121 (86/4Q).

Figure 1. Quarterly U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1985-1993

Note: Each increment represents end-of-quarter data.
 Sources: Production: Energy Information Administration (EIA), Form EIA-6, "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 145;" Producer and Distributor Stocks: EIA, Form EIA-6, "Coal Distribution Report;" Exports: U.S. Department of Commerce, Bureau of the Census, "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 1. U.S. Coal Production, Imports, Consumption, Exports, and Stocks,
1985-1993**
(Thousand Short Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks ¹	Consumption	Exports	Consumer Stocks ¹	Losses and Unaccounted For ²
1985 January - March	213,238	330	35,371	205,484	18,544	179,454	6,018
April - June	228,180	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	33,656	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	223,582	29,239	167,711	-2,464
Total	995,984	3,390		887,621	108,969		3,731
1992 January - March	255,956	679	39,853	220,594	24,731	168,632	3,507
April - June	242,735	1,043	40,513	210,037	27,010	173,270	1,434
July - September	249,055	882	35,198	237,898	26,481	161,878	2,484
October - December	249,799	1,199	33,993	224,093	24,294	163,692	2,002
Total	997,545	3,803		892,421	102,516		9,407
1993 January - March	242,460	1,213	38,319	229,895	18,870	152,659	1,817
April - June	234,874	1,093	34,827	215,802	19,946	154,517	1,852
Total	477,335	2,306		445,497	38,816		3,669

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, 1985-1993

Note: Each increment represents end-of-quarter data.
 Sources: Production, Consumption, and Producer and Distributor Stocks: Energy Information Administration (EIA), Form EIA-8, "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,
1985-1993**
(Thousand Short Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks ¹	Consumption ²	Exports
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	7,084	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	6,197	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		24,731	642
1993 January - March	5,711	360	1,678	6,181	95
April - June	5,885	485	1,683	6,176	189
Total	11,596	845		12,357	284

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

New Federal Legislation

Bill	Title	Status
H.R. 2877	Federal Coal Equity Act of 1993	Introduced on August 5, 1993, and referred to the House Natural Resources Committee.
H.R. 2980	Bituminous Coal Mining Industry Labor Law Amendment of 1993	Introduced on August 6, 1993, and referred to the House Education and Labor Committee.

H.R. 2877 would provide that the Secretary of the Interior must determine the impact of leasing Federal lands for coal mining on the existing mining industry before issuing Federal coal mining leases.

H.R. 2980 would amend the National Labor Relations Act to enhance the collective bargaining process and to preserve employment opportunities for workers in the bituminous coal mining industry.

Federal Legislation Update

Bill	Title	Status
H.R. 266	Black Lung Benefits Equity Act	Referred to the House Education and Labor Committee.
H.R. 598	1993 H.R. 598	Referred to the House Education and Labor Committee.
H.R. 804	1993 H.R. 804	Referred to the House Ways and Means Committee.

State Legislation Update

Illinois. House Bill 751 would have amended 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 bill was vetoed by the Governor on August 4, 1993.

House Bill 1292 amends the Coal Mining Act and the Mine Inspection Act by eliminating a requirement that mine examiners in mines where employees are covered by a collective bargaining agreement must be covered by a similar agreement. The bill was signed by the Governor on August 4, 1993.

House Bill 1711, introduced on March 10, 1993, would amend the Occupation and Use Tax Acts to require that any person who receives a tax exemption for coal mining equipment and machinery must pay all of the tax that would have been due without the exemption within 90 days, if the person subsequently ceases mining operations. The bill was referred to the House Committee on Revenue and reported favorably on April 2, 1993.

House Bill 1736 provides that the assessed per acre value of a coal property may not be reduced if coal mining on the property ceases, unless maintaining the assessed value would adversely affect a property owner who is not engaged in mining. The measure was passed by the House on April 28, 1993, and sent to the Senate, where it remains under consideration.

Industry Developments

Mining

Strike Continues As Bargaining Resumes. Contract talks between the United Mine Workers of America (UMWA) and the Bituminous Coal Operators' Association (BCOA) resumed on August 11 as negotiators held their first face-to-face meeting in over three months. Meanwhile, approximately 16 thousand UMWA miners in seven states remained on strike, idling operations at mines which collectively produced approximately 115 million tons of coal in 1992.

The UMWA and the Bituminous Coal Operators' Association (BCOA) have been attempting since November 1992 to negotiate a new contract to replace the National Bituminous Coal Wage Agreement, a 5-year accord that was signed in 1988 and expired in February 1993. The BCOA represents the Nation's 9 largest coal producers and the UMWA represents about 60 thousand miners in six Appalachian and Mid-Western States.

The central union issue in the negotiations is job security for UMWA miners. The coal companies are pressing for more flexible work rules, including the ability to require more overtime and to combine job classifications, insisting that such changes are necessary for them to compete successfully with non-union and foreign coal producers. The operators also want miners to begin paying part of their health care premiums, a change the union opposes.¹

Midwest Flood Disruptions of Coal Traffic Ease But Full Recovery Will Be Slow. Rail and barge movements of coal through the upper Midwest gradually returned to normal during August and September as coal suppliers, transporters, and consumers slowly recovered from the summer's catastrophic flooding along some of the Nation's major inland waterways. But while regular shipping schedules may have resumed, the process of coping with the flood's legacy of destruction will continue for some time.

Railroads are faced with the costly and time consuming task of restoring railbeds and bridges, while barge lines

must await the repair or reconstruction of many locks and levees. Meanwhile, officials of some electric utilities and other coal consumers expect that it will take months to restore their depleted coal stockpiles to desired levels.²

Interior Department Proposes Higher Interest Charges for Delinquent Lease Payments. The U.S. Department of the Interior has announced plans to raise the effective rate of interest charged for late payment and underpayment of royalties for solid mineral and geothermal leases. The increase will bring the penalties into line with those currently charged for oil and gas leases.

The proposed change follows a study by the Department's Inspector General that found inconsistencies between the method used to calculate interest penalties for oil and gas leases and the method used for other types of leases. Under the proposed new rule, published June 1, 1993, in the *Federal Register*, the compound interest method currently applied to oil and gas leases will be applied to all other leases, including coal and geothermal.³

Unit Train Derailment Interrupts Colorado Coal Shipments. Coal shipments from four Colorado mines were disrupted for 5 days in late July when a 104-car unit train derailed on the Denver and Rio Grande Western branch line, spilling 32 carloads of coal and causing an estimated \$535 thousand in damages. The train had been loaded at ARCO Coal's West Elk mine and was headed for a chemical plant in Texas when the accident occurred July 25 near Grand Junction, Colorado. Other mines served by the affected rail line are Cyprus Coal's Orchard Valley mine, and the Sanborn Creek and Bear No. 3 mines owned by Pacific Basin Coal and Carbon.⁴

New Chemical Process Turns Coal Fines Into Fuel. Research aimed at making it easier to dispose of waste coal fines from coal cleaning plants has produced an unexpected benefit, a chemical treatment that can convert the waste to a fuel.

¹ "Talks Resume; Court Rooms Stay Busy," *Coal Outlook*, (Arlington, Virginia, August 30, 1993), p. 1.

² "Flood Disruptions of Coal Will Recede Slowly," *Coal Week*, (Arlington, Virginia, August 2, 1993), p. 1.

³ "Interior Seeks To Make Interest Rate Consistent for All Minerals," *Coal Week*, (Washington, D.C., June 21, 1993), p. 8.

⁴ "Cars Derail in Colorado," *Coal Outlook*, (Arlington, Virginia, August 2, 1993), p. 3.

Coal fines are the tiny particles of coal that remain after raw coal is cleaned at preparation plants. The particles are mixed with the water used in the cleaning process, creating a wet coal cake which is difficult to store and transport for disposal.

Researchers at the Energy International Corporation of Pittsburgh, Pennsylvania, working under a contract with the U.S. Department of Energy, discovered that mixing the wet coal cake with a proprietary chemical additive causes the moisture to be trapped inside the coal particles. The result is a sand-like material which looks and handles as if it were dry, despite a moisture content of up to 50 percent.

Further tests revealed that adding a second chemical converts the granular material to a slurry. This slurry can be pumped, atomized, and burned like oil in a combustion furnace, turning a previously unmarketable waste product into a valuable fuel.⁵

DOE Announces 171 Grants to Small Businesses. The U.S. Department of Energy (DOE) has accepted 171 grant applications from small, high-technology firms in 29 states under its Small Business Innovation Research (SBIR) program. The applications were selected on the basis of their technical merit from among 1,999 proposals representing 37 technical topics designated by the DOE, including many related to coal and coal technology.

The objective of the SBIR program is to speed commercialization of new technologies developed by small businesses. Under Phase I of the current grant program, the firms will receive an average of \$75 thousand for 6 months to demonstrate the feasibility of their proposals. Thereafter, each firm will be eligible to compete for Phase II funding of up to \$600 thousand over 2 years, during which the proposed technologies will undergo further development.⁶

Interior Department Reinstates Royalty Advisory Panel. The U.S. Department of the Interior has announced that the Minerals Management Service (MMS) will reinstate the Royalty Management Advisory Committee. The panel's charter expired in February 1993, but will be renewed as part of the Clinton Administration's effort to improve the efficiency and responsiveness of Federal agencies.⁷

EPA Concludes Four Coal Combustion Wastes Are Not Hazardous. The Environmental Protection Agency (EPA) has ruled that four of the most common coal combustion waste products will not require treatment

as hazardous wastes under Subtitle C of the Resource Conservation and Recovery Act (RCRA). The four types of waste covered by the August 2, 1993, EPA ruling are fly ash, bottom ash, boiler slag, and flue gas emission control waste.

After an extensive study of the four waste products and the way they are now handled, the EPA concluded that current waste management practices coupled with existing Federal and State regulatory controls are adequate for managing them. Electric utility officials indicated that the ruling will enable them to increase the amount of coal ash and other waste products they recycle each year.⁸

West Virginia Center Will Study Coal Liquefaction. The Consortium for Fossil Fuel Liquefaction Science and the U.S. Department of Energy (DOE) will jointly fund a 5-year, \$19-million study aimed at producing oil from a combination of coal and hydrocarbon waste materials such as tires and plastics. The research will be conducted at the National Research Center for Coal and Energy at West Virginia University, which is a member of the consortium. DOE will supply \$9.7 million toward the project with consortium members contributing the remaining \$9.3 million.⁹

Sun Company Sells Coal Subsidiary to Coastal States Energy. The Coastal States Energy Company, a subsidiary of the Houston-based Coastal Corporation, has purchased the Sage Point Coal Company and the Soldier Creek Coal Company from the Sun Company. Soldier Creek Coal is a subsidiary of Sage Point and operates the Soldier Canyon mine in Carbon County, Utah.¹⁰

DOE Selects Nine U.S. Firms for Pollution Control Projects in Poland. The U.S. Department of Energy (DOE) has selected nine U.S. firms to join Polish counterparts in joint projects aimed at reducing pollution from coal emissions in Krakow, Poland's historic former capital. The joint projects represent part of a broader U.S. program to share U.S. pollution control expertise abroad, especially with emerging democracies in Eastern Europe. Objectives of the program include expanding the export market for U.S. technology, introducing previously centrally planned economies to free market business practices, and upgrading national infrastructures to improve the quality of life in the formerly Communist nations.

The firms chosen for the joint projects in Poland specialize in various aspects of pollution control and were selected on the basis of proposals they submitted in response to a September 1992 DOE solicitation. The

⁵ "DOE Supported Research Leads To New Fuel Use For Waste Coal," *Coal Week*, (Washington, D.C., July 12, 1993), p. 8.

⁶ "Coal Projects Gain Support Through DOE Small Business Program," *Coal Week*, (Washington, D.C., July 19, 1993), p. 10.

⁷ "Interior Department Royalty Panel Renewed," *Coal Week*, (Washington, D.C., July 19, 1993), p. 10.

⁸ "EPA Says Four Coal Combustion Waste Streams Not Hazardous," *Coal Week*, (Washington, D.C., August 9, 1993), p. 8.

⁹ "WVU Center to Study Oil From Coal, Signs \$19 Million Research Agreement," *Coal Voice*, (Washington, D.C., September 13, 1993), p. 3.

¹⁰ "Coal Company Sold," *New York Times*, (New York, New York, September 16, 1993), p. D. 5.

total cost of the projects will be approximately \$31 million, with DOE contributing about \$15 million in funds supplied by the Agency for International Development pursuant to an interagency agreement.

The projects are divided into three topic areas, each with a specific pollution control objective. Topic Area 1 aims to expand and upgrade the existing district heating system in Krakow. Shooshanian Engineering Associates of Boston, Massachusetts, will work with Krakow's municipal district heat distributor (known by its Polish acronym MPEC) and POLINVEST, Ltd. to extend the central station district heating system by adding new sections with state-of-the-art conservation features. The project will facilitate the phase-out of 10 large boilers that lack particulate collection systems.

Concurrently, Honeywell Inc. of Minneapolis, Minnesota, will work with MPEC on system control and supervision to improve efficiency. Additionally, Hart Associates of Washington, D.C., will help MPEC develop customer assistance and educational programs to encourage businesses and residences to convert from boilers to the district heating system.

Topic Area 2 will focus on reducing emissions from Krakow's 3 thousand small coal-fired boilers. Tacogen, Inc. of Waltham, Massachusetts, will team with three Polish firms to install an advanced integrated system for combustion, emissions reduction, and process control in a district boiler house. LSR Technologies of Acton, Massachusetts, will join POLINVEST and a British firm to develop and build a particulate collection device for small boilers. A team, including TCS Inc. of Washington, D.C., will convert military boilers to burn micronized coal, which offers advantages including more complete combustion and reduced

slagging. Finally, EFH Coal Co. of Wilkes Barre, Pennsylvania, will join MPEC and a Polish firm in building a stoker coal preparation plant to supply stoker coal in the Krakow region.

Topic Area 3 will address pollution from the 125 thousand coal-fired home stoves operating in Krakow. Acurex Environmental Corp. of Mountain View, California, and Planmar Consulting of Research Triangle Park, North Carolina, will work with a Polish firm to introduce briquetting technology in Poland. Briquettes produce about 70 percent less pollution than coal and can be used instead of coal with no modifications to the existing stoves.¹¹

NAFTA Passage Could Aid Coal Exports to Mexico. Passage of the North American Free Trade Agreement (NAFTA) could boost U.S. coal exports to Mexico, according to the National Coal Association (NCA). Mexico currently imposes a 10-percent tariff on imported coal. Adoption of the trade agreement, which is currently under review in Congress, would immediately lift this tariff on coal imports from the U.S. and Canada. This could give U.S. coal exporters an advantage over competitors other than Canadian producers seeking to supply Mexico's steam coal market.¹²

Ontario Hydro's Coal Demand Continues to Decline. Ontario Hydro expects to buy about 6 million tons of coal annually in 1993 and 1994, roughly half the 12 million tons per year it required a few years ago. The drop reflects the utility's decreased use of its coal-fired generating units due to the recent start-up of the final unit at the Darlington nuclear station, increased output from hydro facilities, and reduced electricity demand resulting from the recession.¹³

¹¹ "DOE Picks Nine Companies for Pollution Projects in Poland's Krakow," *Inside Energy*, (Washington, D.C., September 13, 1993), p. 11.

¹² "NCA Supports NAFTA," *Coal News*, (Washington, D.C., September 27, 1993), p. 1.

¹³ "Ontario Hydro Cuts Coal Burn; Plans Switch," *Coal Outlook*, (Arlington, Virginia, September 6, 1993), p. 2.

Production

After the topsoil and overburden are removed, a loading shovel scoops coal from a seam averaging 55 feet in thickness at the Cordero mine in Wyoming's Powder River Basin.

Figure 3. U.S. Quarterly Coal Production, 1985-1993

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, 1985-1993
(Thousand Short Tons)

Year	January - March	April - June	July - September	October - December	Year to Date
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	226,845	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	255,956	242,735	249,055	249,799	997,545
1993	242,460	234,874	NA	NA	477,335

NA Not available.

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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
Alabama	6,555	6,252	6,175	12,808	13,333	-3.9
Alaska	369	420	371	790	773	2.1
Arizona	2,526	2,940	3,116	5,466	6,383	-14.4
Arkansas	6	4	15	10	27	-63.7
California	-	-	30	-	30	-
Colorado	4,981	4,959	4,782	9,939	9,187	8.2
Illinois	10,354	13,800	15,090	24,154	31,327	-22.9
Indiana	7,310	7,286	7,803	14,595	16,457	-11.3
Iowa	36	53	63	89	152	-41.3
Kansas	91	102	99	193	174	11.0
Kentucky Total	39,541	39,020	39,114	78,562	80,167	-2.0
Eastern	30,285	29,582	28,936	59,867	59,155	1.2
Western	9,256	9,438	10,178	18,694	21,012	-11.0
Louisiana	736	744	944	1,480	1,502	-1.5
Maryland	869	888	1,178	1,756	1,861	-5.7
Missouri	84	238	803	322	1,489	-78.4
Montana	7,287	9,485	7,739	16,752	17,732	-5.5
New Mexico	6,518	7,220	5,346	13,738	11,228	22.4
North Dakota	7,622	8,202	7,569	15,824	15,576	1.6
Ohio	6,611	7,542	7,230	14,153	15,401	-8.1
Oklahoma	559	494	419	1,052	849	24.0
Pennsylvania Total	14,773	16,321	17,259	31,094	35,554	-12.5
Anthracite	837	828	843	1,666	1,613	3.3
Bituminous	13,935	15,493	16,416	29,428	33,942	-13.3
Tennessee	650	604	869	1,254	1,728	-27.4
Texas	13,518	13,050	13,414	26,568	26,543	.1
Utah	5,414	5,195	5,013	10,608	11,122	-4.6
Virginia	10,833	10,842	10,981	21,675	21,752	-.4
Washington	1,051	1,190	1,386	2,241	2,680	-16.4
West Virginia Total	35,863	37,916	40,533	73,779	82,670	-10.8
Northern	9,969	10,800	12,457	20,768	25,235	-17.7
Southern	25,894	27,116	28,076	53,010	57,435	-7.7
Wyoming	50,720	47,715	45,394	98,435	92,998	5.8
Appalachian Total	106,438	109,947	113,161	216,385	231,453	-6.5
Interior Total	41,950	45,208	48,827	87,157	99,529	-12.4
Western Total	86,487	87,306	80,747	173,792	167,709	3.6
East of the Miss. River	133,358	140,471	146,231	273,829	300,248	-8.8
West of the Miss. River	101,516	101,989	96,503	203,505	198,443	2.6
U.S. Total	234,874	242,460	242,735	477,335	498,691	-4.3

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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
Coke Total	5,885	5,711	5,850	11,596	11,742	-1.2
By State						
Alabama	613	598	634	1,211	1,258	-3.7
Illinois	w	w	w	w	w	w
Indiana	1,492	1,465	1,431	2,956	2,873	2.9
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	505	511	699	1,016	1,390	-26.9
Pennsylvania	1,754	1,735	1,661	3,489	3,389	2.9
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	819	796	830	1,615	1,633	-1.1
Furnace Coke Plants	5,066	4,915	5,020	9,981	10,108	-1.3
Breeze Total	339	333	457	672	855	-21.4

^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 about 15 percent of all domestic shipments in 1992.

Figure 4. Quarterly Domestic Coal Distribution by End-Use Sector, 1985-1993

*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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Alabama	6,517	6,225	6,215	12,741	12,974	-1.8
Alaska	390	422	375	812	795	2.2
Arizona	2,460	2,854	3,156	5,314	6,181	-14.0
Arkansas	8	5	8	13	14	-6.3
California	-	-	28	-	80	-
Colorado	5,221	4,341	4,405	9,561	8,684	10.1
Illinois	11,342	13,828	15,128	25,169	29,787	-15.5
Indiana	7,398	7,483	8,074	14,880	16,648	-10.6
Iowa	36	53	63	89	151	-40.9
Kansas	94	95	93	190	163	16.4
Kentucky Total	40,218	37,776	39,000	77,994	78,495	-0.6
Eastern	30,611	28,512	28,625	59,123	57,847	2.2
Western	9,607	9,264	10,375	18,872	20,648	-8.6
Louisiana	738	742	932	1,480	1,488	-0.5
Maryland	720	812	907	1,532	1,664	-7.9
Missouri	84	238	778	322	1,442	-77.7
Montana	7,319	9,433	7,898	16,751	17,839	-6.1
New Mexico	6,536	6,584	5,658	13,121	11,241	16.7
North Dakota	7,585	7,970	7,379	15,534	15,386	1.0
Ohio	6,730	7,795	7,002	14,525	15,222	-4.6
Oklahoma	560	502	457	1,062	911	16.7
Pennsylvania Total	15,328	16,333	17,535	31,661	33,986	-6.8
Anthracite	805	804	802	1,610	1,632	-1.3
Bituminous	14,523	15,529	16,733	30,051	32,354	-7.1
Tennessee	663	585	698	1,248	1,409	-11.4
Texas	13,521	13,035	12,908	26,556	26,130	1.6
Utah	4,972	5,734	4,739	10,706	10,183	5.1
Virginia	11,006	10,348	11,703	21,354	22,807	-6.4
Washington	1,049	1,186	1,368	2,235	2,706	-17.4
West Virginia Total	37,579	37,227	41,283	74,806	83,079	-10.0
Northern	10,904	11,182	13,205	22,085	25,982	-15.0
Southern	26,675	26,046	28,079	52,721	57,097	-7.7
Wyoming	50,577	47,400	45,433	97,978	92,812	5.6
Appalachian Total	109,154	107,838	113,969	216,921	228,987	-5.2
Interior Total	43,388	45,246	48,815	95,633	97,382	-9.0
Western Total	86,068	85,924	80,440	172,012	165,906	3.7
East of the Miss. River	137,500	138,412	147,546	275,912	296,370	-6.8
West of the Miss. River	101,129	100,595	95,678	201,724	196,205	2.8
U.S. Total	238,629	239,007	243,224	477,636	492,275	-3.0

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Sector: Electric Generation						
Alabama	4,284	4,030	3,747	8,314	7,805	6.5
Alaska	58	80	57	138	139	-.7
Arizona	2,460	2,854	3,156	5,314	6,181	-14.0
California	-	-	18	-	61	-
Colorado	4,455	3,650	4,048	8,105	7,944	2.0
Illinois	9,822	12,100	13,328	21,922	26,782	-18.1
Indiana	6,339	6,454	7,050	12,792	14,515	-11.9
Iowa	19	7	63	25	151	-83.3
Kansas	75	68	67	143	124	16.0
Kentucky Total	31,699	29,144	29,510	60,842	59,747	1.8
Eastern	22,431	20,120	19,466	42,551	39,645	7.3
Western	9,268	9,024	10,044	18,292	20,102	-9.0
Louisiana	738	742	932	1,480	1,488	-.5
Maryland	640	616	734	1,256	1,345	-6.6
Missouri	25	186	749	210	1,367	-84.6
Montana	7,224	8,948	7,788	16,172	17,194	-5.9
New Mexico	6,368	6,386	5,538	12,754	10,986	16.1
North Dakota	5,953	6,201	5,756	12,154	12,113	.3
Ohio	6,073	7,040	6,410	13,113	13,811	-5.1
Oklahoma	251	245	286	496	578	-14.2
Pennsylvania Total	11,465	12,497	12,661	23,992	24,828	-3.5
Anthracite	385	326	280	710	468	51.7
Bituminous	11,080	12,172	12,381	23,252	24,360	-4.5
Tennessee	444	369	486	813	941	-13.6
Texas	12,643	12,157	11,771	24,800	24,506	1.2
Utah	3,633	3,838	3,178	7,471	6,995	6.8
Virginia	4,183	3,684	3,694	7,867	7,892	2.3
Washington	1,010	1,173	1,305	2,183	2,517	-13.3
West Virginia Total	22,008	21,755	21,829	43,764	43,799	-.1
Northern	8,760	9,710	10,250	18,470	20,730	-10.9
Southern	13,249	12,045	11,579	25,294	23,069	9.6
Wyoming	49,168	46,083	44,011	95,250	89,941	5.9
Appalachian Total	71,529	70,112	69,027	141,640	139,867	1.3
Interior Total	39,179	40,962	44,291	80,162	89,612	-10.5
Western Total	80,328	79,212	74,854	159,540	154,072	3.5
East of the Miss. River	96,957	97,669	99,449	194,646	201,266	-3.3
West of the Miss. River	94,079	92,616	88,723	186,696	182,266	2.4
U.S. Total	191,036	190,305	188,172	381,342	383,551	-.6
Sector: Coke Plants						
Alabama	333	341	435	674	843	-20.0
Colorado	43	72	8	115	31	276.6
Illinois	97	144	127	240	295	-18.7
Indiana	-	35	-	35	-	-
Kentucky Total	1,507	1,295	1,280	2,802	2,482	12.9
Eastern	1,507	1,295	1,280	2,802	2,482	12.9
Pennsylvania Total	552	716	990	1,268	1,840	-31.1
Anthracite	-	-	-	-	3	-
Bituminous	552	716	990	1,268	1,836	-30.9
Utah	163	105	131	269	230	16.8
Virginia	1,979	1,818	2,069	3,797	4,034	-5.9
West Virginia Total	2,390	2,576	3,018	4,965	6,400	-22.4
Northern	-	-	-	-	36	-
Southern	2,390	2,576	3,018	4,965	6,364	-22.0
Wyoming	22	-	-	22	-	-
Appalachian Total	6,762	6,745	7,792	13,507	15,596	-13.4
Interior Total	97	179	127	275	295	-6.8
Western Total	228	178	139	406	260	55.7
East of the Miss. River	6,858	6,924	7,918	13,782	15,893	-13.3
West of the Miss. River	228	178	139	406	260	55.7
U.S. Total	7,086	7,101	8,057	14,188	16,154	-12.2

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Sector: Industrial Plants (Except Coke)						
Alabama	485	437	469	922	972	-5.2
Arkansas	8	5	8	13	14	-6.3
California	-	-	9	-	19	-
Colorado	426	386	329	812	557	45.8
Illinois	1,047	1,299	1,125	2,346	1,936	21.1
Indiana	958	764	841	1,722	1,759	-2.1
Iowa	17	48	-	64	-	-
Kansas	18	25	16	43	27	59.8
Kentucky Total	3,837	3,766	3,695	7,603	7,457	2.0
Eastern	3,560	3,626	3,488	7,187	7,117	1.0
Western	276	140	207	416	340	22.5
Maryland	67	67	97	133	178	-25.1
Missouri	33	9	5	41	17	146.9
Montana	84	448	74	532	547	-2.7
New Mexico	168	194	120	363	251	44.3
North Dakota	1,604	1,721	1,619	3,325	3,233	2.8
Ohio	431	478	528	909	1,172	-22.4
Oklahoma	309	245	171	554	331	67.1
Pennsylvania Total	1,153	1,096	1,281	2,248	2,253	-2
Anthracite	77	88	172	165	299	-44.9
Bituminous	1,075	1,008	1,109	2,083	1,953	6.7
Tennessee	198	198	187	396	415	-4.7
Texas	878	878	1,137	1,756	1,624	8.1
Utah	907	829	946	1,536	1,889	-18.7
Virginia	828	1,054	1,044	1,882	2,070	-9.1
Washington	13	13	13	26	13	103.7
West Virginia Total	3,062	2,336	2,514	5,397	5,008	7.8
Northern	706	645	766	1,351	1,397	-3.3
Southern	2,356	1,691	1,748	4,046	3,611	12.0
Wyoming	1,131	1,094	1,087	2,225	2,147	3.6
Appalachian Total	9,783	9,290	9,606	19,074	19,185	-.6
Interior Total	3,545	3,410	3,511	6,955	6,048	15.0
Western Total	4,333	4,485	4,198	8,817	8,655	1.9
East of the Miss. River	12,065	11,493	11,781	23,557	23,220	1.5
West of the Miss. River	5,596	5,693	5,535	11,289	10,669	5.8
U.S. Total	17,661	17,185	17,316	34,846	33,889	2.8
Sector: Residential and Commercial						
Alabama	2	22	17	24	41	-42.2
Alaska	140	180	113	301	262	14.8
Colorado	37	18	21	54	82	-12.7
Illinois	61	118	56	179	140	27.8
Indiana	58	158	55	216	178	21.2
Kansas	•	3	1	3	4	-20.5
Kentucky Total	481	515	201	996	447	123.1
Eastern	457	501	174	959	404	137.4
Western	24	14	27	38	43	-12.3
Maryland	•	1	•	1	1	.4
Missouri	19	29	23	48	46	3.6
Montana	8	20	12	28	36	-21.2
New Mexico	•	4	•	4	4	11.1
North Dakota	5	48	4	53	40	32.7
Ohio	75	133	49	208	172	20.7
Oklahoma	•	•	•	•	1	-46.7
Pennsylvania Total	273	453	383	727	996	-27.0
Anthracite	186	326	226	512	699	-26.8
Bituminous	87	128	157	215	297	-27.6
Tennessee	6	7	11	13	27	-53.4
Utah	77	89	55	166	173	-3.8
Virginia	49	29	13	78	29	167.5
Washington	-	•	-	•	•	NM
West Virginia Total	288	170	127	458	267	71.5
Northern	96	20	2	116	27	335.7
Southern	192	150	125	342	240	42.4
Wyoming	15	74	8	89	67	33.3

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Sector: Residential and Commercial (Continued)						
Appalachian Total	1,149	1,316	773	2,465	1,937	27.3
Interior Total	162	322	163	484	412	17.5
Western Total	282	414	213	696	643	8.2
East of the Miss. River	1,291	1,606	911	2,898	2,297	26.1
West of the Miss. River	301	446	238	747	694	7.6
U.S. Total	1,593	2,052	1,149	3,645	2,992	21.8

* 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-June 1993
(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	-	-	-	-	-	2,762	2,762
Alaska	-	-	-	-	-	373	373
Colorado	-	-	-	-	-	422	422
Illinois	-	-	-	-	-	447	447
Indiana	-	-	-	-	-	89	89
Kentucky Total	-	569	166	40	775	3,698	4,474
Eastern	-	569	166	40	775	3,618	4,393
Western	-	-	-	-	-	81	81
Maryland	-	-	-	-	-	113	113
Oklahoma	-	-	-	-	-	11	11
Pennsylvania Total	*	3	281	*	284	2,833	3,117
Anthracite	-	3	133	*	135	12	148
Bituminous	*	-	149	-	149	2,821	2,970
Utah	78	-	268	*	346	910	1,257
Virginia	-	479	74	-	553	7,027	7,580
Washington	-	-	-	-	-	26	26
West Virginia Total	2,035	858	17	-	2,910	15,771	18,680
Northern	656	-	-	-	656	753	1,408
Southern	1,380	858	17	-	2,254	15,018	17,272
Wyoming	-	-	-	-	-	389	389
Appalachian Total	2,035	1,908	538	40	4,522	32,124	36,646
Interior Total	-	-	-	-	-	627	627
Western Total	78	-	268	*	346	2,120	2,467
East of the Miss. River	2,035	1,908	538	40	4,522	32,740	37,262
West of the Miss. River	78	-	268	*	346	2,132	2,478
U.S. Total	2,114	1,908	806	40	4,868	34,871	39,740

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-June 1993

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
New England Total	1,092	1,169	1,779	2,262	4,030	-43.9
Connecticut	197	226	249	423	537	-21.3
Maine	138	17	94	154	467	-67.0
Massachusetts	522	520	1,165	1,041	2,465	-57.8
New Hampshire	235	405	267	640	550	16.3
Rhode Island	.	1	.	1	1	-12.9
Vermont	.	1	5	2	9	-79.5
Middle Atlantic Total	15,870	17,173	18,411	33,043	36,585	-9.7
New Jersey	550	717	557	1,266	1,320	-4.1
New York	2,473	2,948	3,473	5,420	6,791	-20.2
Pennsylvania	12,848	13,509	14,382	26,357	28,474	-7.4
East North Central Total	49,181	48,038	49,876	97,218	101,798	-4.5
Illinois	7,654	7,776	7,620	15,429	15,875	-1.6
Indiana	14,081	14,075	15,033	28,157	31,581	-10.8
Michigan	7,936	6,692	7,784	14,628	14,622	.
Ohio	13,922	14,904	13,971	28,826	29,838	-3.4
Wisconsin	5,588	4,591	5,468	10,179	10,082	1.0
West North Central Total	28,203	27,641	27,702	55,844	56,620	-1.4
Iowa	5,076	3,500	4,806	8,576	9,167	-6.5
Kansas	4,510	3,611	3,716	8,122	7,836	3.7
Minnesota	3,886	4,742	3,786	8,628	7,818	10.4
Missouri	4,943	5,263	6,146	10,206	12,131	-15.9
Nebraska	2,076	2,285	1,748	4,360	3,910	11.5
North Dakota	7,008	7,595	6,860	14,604	14,526	.5
South Dakota	703	646	659	1,349	1,232	9.4
South Atlantic Total	36,603	35,490	33,933	72,093	69,709	3.4
Delaware	695	447	425	1,141	859	32.9
District of Columbia	17	26	3	43	31	37.9
Florida	6,195	5,648	5,977	11,843	12,088	-2.0
Georgia	6,235	5,955	5,162	12,189	10,675	14.2
Maryland	2,432	2,589	2,479	5,022	4,811	8.9
North Carolina	6,507	5,821	5,668	12,327	11,460	7.6
South Carolina	2,643	2,739	2,412	5,382	5,494	-2.1
Virginia	3,863	4,231	3,637	8,093	7,647	5.8
West Virginia	8,018	8,035	8,169	16,053	16,843	-4.7
East South Central Total	25,559	25,459	22,367	51,019	45,042	13.3
Alabama	7,794	7,456	6,800	15,250	13,486	13.1
Kentucky	8,443	8,963	7,894	17,407	16,123	8.0
Mississippi	1,073	791	1,136	1,864	2,276	-18.1
Tennessee	8,249	8,248	6,537	16,498	13,157	25.4
West South Central Total	34,714	31,482	32,548	66,195	64,166	3.2
Arkansas	2,851	2,612	2,940	5,463	5,698	-4.1
Louisiana	3,713	3,414	3,615	7,126	6,561	8.6
Oklahoma	4,244	4,694	3,816	8,938	8,102	10.3
Texas	23,906	20,763	22,177	44,668	43,804	2.0
Mountain Total	23,719	27,512	25,373	51,230	53,240	-3.8
Arizona	4,358	4,414	4,045	8,773	8,132	7.9
Colorado	3,881	4,201	4,120	8,083	8,241	-1.9
Idaho	98	64	70	163	175	-6.9
Montana	895	2,839	1,951	3,734	5,027	-25.7
Nevada	1,502	1,874	1,861	3,376	3,893	-13.3
New Mexico	3,428	3,435	3,546	6,863	6,851	.2
Utah	4,033	4,086	3,654	8,120	7,604	6.8
Wyoming	5,522	6,598	6,126	12,120	13,317	-9.0
Pacific Total	2,439	2,682	2,714	5,121	5,425	-5.6
Alaska	198	240	169	438	401	9.4
California	742	408	725	1,150	1,486	-22.6
Oregon	237	521	447	759	901	-15.8
Washington	1,262	1,513	1,372	2,774	2,637	5.2
Unknown	1,597	2,274	1,832	3,871	3,018	28.3
U.S. Total	218,977	218,920	216,335	437,897	439,632	-.4
Canada	3,075	1,794	4,581	4,868	6,622	-26.5
Overseas ¹	16,578	18,293	22,309	34,871	46,021	-24.2
Foreign Total	19,652	20,087	26,889	39,740	52,643	-24.5
Grand Total	238,629	239,007	243,224	477,636	492,275	-3.0

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Sector: Electric Generation						
New England Total	865	1,047	1,569	1,912	3,370	-43.3
Connecticut	166	221	239	387	522	-25.9
Massachusetts	465	487	1,093	952	2,333	-59.2
New Hampshire	235	339	236	574	515	11.4
Middle Atlantic Total	11,841	12,931	13,916	24,773	27,552	-10.1
New Jersey	485	631	491	1,116	1,186	-5.9
New York	1,847	2,265	2,625	4,112	5,244	-21.6
Pennsylvania	9,509	10,036	10,800	19,544	21,122	-7.5
East North Central Total	41,506	40,747	42,217	82,254	86,889	-5.3
Illinois	6,003	6,050	6,199	12,052	13,007	-7.3
Indiana	11,194	11,039	12,184	22,232	25,721	-13.6
Michigan	6,935	6,154	6,999	13,089	13,334	-1.8
Ohio	12,177	13,205	11,741	25,382	25,374	*
Wisconsin	5,198	4,301	5,095	9,499	9,452	.5
West North Central Total	25,375	24,671	24,960	50,046	51,135	-2.1
Iowa	4,598	3,074	4,248	7,672	8,325	-7.8
Kansas	4,483	3,562	3,692	8,045	7,788	3.3
Minnesota	3,672	4,546	3,664	8,218	7,475	9.9
Missouri	4,559	5,004	5,807	9,563	11,484	-16.7
Nebraska	2,049	2,223	1,731	4,272	3,835	11.4
North Dakota	5,376	5,680	5,211	11,056	11,069	-.1
South Dakota	638	582	606	1,220	1,159	5.2
South Atlantic Total	32,538	30,876	29,510	63,415	60,544	4.7
Delaware	668	415	365	1,083	764	41.7
Florida	5,949	5,372	5,643	11,321	11,465	-1.3
Georgia	5,887	5,462	4,787	11,348	9,840	15.3
Maryland	2,355	2,442	2,283	4,797	4,259	12.6
North Carolina	5,904	5,107	4,922	11,012	9,957	10.6
South Carolina	2,113	2,078	1,965	4,191	4,577	-8.4
Virginia	2,932	3,118	2,399	6,050	5,007	20.8
West Virginia	6,730	6,882	7,146	13,612	14,675	-7.2
East South Central Total	22,026	22,077	19,323	44,102	38,632	14.2
Alabama	6,360	6,209	5,349	12,568	10,405	20.8
Kentucky	7,534	7,950	7,187	15,484	14,528	6.6
Mississippi	1,006	722	1,086	1,728	2,182	-20.8
Tennessee	7,125	7,197	5,700	14,322	11,517	24.4
West South Central Total	33,021	29,855	30,862	62,876	61,554	2.1
Arkansas	2,776	2,547	2,881	5,323	5,587	-4.7
Louisiana	3,580	3,255	3,479	6,835	6,291	8.6
Oklahoma	3,973	4,464	3,671	8,438	7,802	8.1
Texas	22,692	19,588	20,831	42,280	41,874	1.0
Mountain Total	22,300	26,021	23,984	48,321	50,288	-3.9
Arizona	4,222	4,250	3,910	8,472	7,841	8.0
Colorado	3,740	4,017	3,959	7,757	7,849	-1.2
Montana	865	2,757	1,927	3,622	4,915	-26.3
Nevada	1,460	1,818	1,815	3,277	3,804	-13.8
New Mexico	3,413	3,420	3,534	6,833	6,824	.1
Utah	3,504	3,676	3,160	7,180	6,697	7.2
Wyoming	5,096	6,084	5,678	11,180	12,358	-9.5
Pacific Total	1,563	2,080	1,831	3,643	3,588	1.5
Alaska	58	80	57	138	139	-.7
California	79	46	27	125	69	80.9
Oregon	232	507	431	738	852	-13.3
Washington	1,195	1,447	1,316	2,642	2,528	4.5
U.S. Total	191,036	190,305	188,172	381,342	383,551	-.6
Sector: Coke Plants						
Middle Atlantic Total	1,901	2,167	2,617	4,068	5,186	-21.6
New York	244	256	325	499	625	-20.2
Pennsylvania	1,658	1,911	2,292	3,569	4,561	-21.8
East North Central Total	3,133	3,001	3,394	6,134	6,708	-8.6
Illinois	559	500	440	1,059	851	24.4
Indiana	1,561	1,688	1,795	3,249	3,624	-10.3
Michigan	129	19	-	147	-	-
Ohio	885	794	1,159	1,678	2,233	-24.8
South Atlantic Total	797	858	671	1,655	1,355	22.1
Virginia	229	218	244	448	485	-7.8

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Sector: Coke Plants (Continued)						
West Virginia	568	640	428	1,208	870	38.8
East South Central Total	950	877	1,063	1,827	2,368	-22.8
Alabama	744	801	707	1,346	1,581	-14.9
Kentucky	205	276	345	481	774	-37.8
Tennessee	-	-	12	-	12	-
Mountain Total	305	199	312	504	536	-6.0
Utah	305	199	312	504	536	-6.0
U.S. Total	7,086	7,101	8,057	14,188	16,154	-12.2
Sector: Industrial Plants (Except Coke)						
New England Total	201	99	175	300	604	-50.3
Connecticut	31	-	9	31	11	177.2
Maine	120	14	84	134	455	-70.5
Massachusetts	50	21	49	72	100	-28.6
New Hampshire	-	63	29	63	30	110.3
Vermont	-	-	4	-	7	-98.7
Middle Atlantic Total	1,756	1,606	1,484	3,362	2,832	18.7
New Jersey	64	83	62	147	126	16.4
New York	314	360	451	674	785	-14.2
Pennsylvania	1,378	1,163	971	2,541	1,920	32.3
East North Central Total	4,194	3,813	3,997	8,007	7,484	7.0
Illinois	1,047	1,133	941	2,180	1,698	28.4
Indiana	1,219	1,166	984	2,385	2,021	18.0
Michigan	792	477	732	1,269	1,201	5.7
Ohio	780	747	967	1,528	1,935	-21.1
Wisconsin	356	290	373	646	629	2.7
West North Central Total	2,716	2,802	2,655	5,518	5,248	5.1
Iowa	443	415	539	857	799	7.3
Kansas	28	31	24	58	47	22.8
Minnesota	213	194	102	407	324	25.7
Missouri	319	185	287	505	534	-5.4
Nebraska	26	62	15	88	73	19.5
North Dakota	1,622	1,852	1,636	3,475	3,399	2.2
South Dakota	65	63	53	129	72	78.4
South Atlantic Total	3,029	3,476	3,639	6,506	7,538	-13.7
Delaware	12	31	60	43	94	-54.0
Florida	245	276	333	521	621	-16.1
Georgia	341	487	364	828	818	1.3
Maryland	77	144	195	220	346	-36.2
North Carolina	557	641	722	1,199	1,439	-16.7
South Carolina	511	624	443	1,135	910	24.8
Virginia	624	801	952	1,425	2,063	-30.9
West Virginia	662	472	570	1,134	1,246	-9.0
East South Central Total	2,342	2,212	1,919	4,554	3,872	17.6
Alabama	684	622	727	1,307	1,458	-10.4
Kentucky	648	645	334	1,292	742	74.2
Mississippi	66	69	50	136	94	44.4
Tennessee	944	876	809	1,820	1,577	15.4
West South Central Total	1,693	1,622	1,684	3,315	2,605	27.2
Arkansas	75	64	59	139	109	27.1
Louisiana	133	158	136	291	271	7.5
Oklahoma	271	229	145	500	299	67.2
Texas	1,214	1,171	1,344	2,385	1,926	23.8
Mountain Total	1,072	1,145	1,021	2,217	2,182	1.6
Arizona	137	164	134	301	290	3.7
Colorado	135	175	154	310	367	-15.6
Idaho	96	49	65	145	155	-6.3
Montana	27	77	21	104	94	10.2
Nevada	42	55	46	97	89	9.3
New Mexico	15	11	12	26	23	14.4
Utah	209	170	149	379	248	52.5
Wyoming	411	445	440	855	915	-6.5
Pacific Total	657	410	742	1,067	1,525	-30.0
California	621	362	698	983	1,417	-30.6
Oregon	6	13	16	19	49	-60.8
Washington	30	34	28	64	58	10.3

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Sector: Industrial Plants (Except Coke) (Continued)						
U.S. Total	17,661	17,185	17,316	34,846	33,889	2.8
Sector: Residential and Commercial						
New England Total	26	23	35	49	56	-12.3
Connecticut	1	5	*	6	5	22.0
Maine	18	2	9	20	12	62.2
Massachusetts	6	11	23	18	31	-42.7
New Hampshire	1	2	1	3	5	-40.1
Rhode Island	*	1	*	1	1	-12.9
Vermont	*	1	1	2	2	-10.4
Middle Atlantic Total	371	469	395	840	1,015	-17.3
New Jersey	1	3	3	3	8	-80.1
New York	68	67	73	135	136	-1.0
Pennsylvania	302	400	319	702	871	-19.4
East North Central Total	347	476	265	824	694	18.6
Illinois	45	94	40	139	119	16.8
Indiana	108	182	66	290	192	51.1
Michigan	80	42	53	123	87	40.7
Ohio	80	158	105	238	295	-19.5
Wisconsin	34	-	*	34	1	NM
West North Central Total	112	169	87	281	237	18.5
Iowa	35	11	19	46	44	6.1
Kansas	*	18	*	18	*	NM
Minnesota	1	3	*	3	19	-82.8
Missouri	65	74	52	139	114	21.5
Nebraska	1	*	1	1	2	-20.3
North Dakota	10	63	13	73	57	27.7
South Dakota	-	-	*	-	1	-
South Atlantic Total	235	279	109	514	267	92.6
Delaware	14	1	-	15	*	NM
District of Columbia	17	26	3	43	31	37.9
Florida	*	*	1	*	1	-91.5
Georgia	7	6	12	13	17	-28.0
Maryland	1	3	1	4	6	-29.3
North Carolina	45	72	24	117	64	82.7
South Carolina	19	37	4	56	8	NM
Virginia	77	93	42	171	92	85.4
West Virginia	55	42	21	96	47	104.3
East South Central Total	241	293	61	534	170	214.3
Alabama	5	24	17	30	41	-28.1
Kentucky	56	93	27	148	78	89.7
Mississippi	*	-	*	*	*	NM
Tennessee	180	176	16	356	50	NM
West South Central Total	*	5	2	5	7	-26.6
Arkansas	*	*	*	*	2	-82.4
Louisiana	-	1	-	1	-	-
Oklahoma	*	*	*	*	1	-71.6
Texas	*	4	2	4	5	-15.1
Mountain Total	42	146	56	188	233	-19.5
Arizona	-	*	1	*	1	-95.2
Colorado	6	9	6	16	24	-35.8
Idaho	2	15	5	18	20	-11.6
Montana	2	5	3	8	17	-54.2
Nevada	*	1	*	1	1	20.7
New Mexico	*	4	*	5	4	21.4
Utah	15	41	33	57	122	-53.6
Wyoming	15	69	8	85	45	89.8
Pacific Total	219	192	140	411	312	31.5
Alaska	140	160	113	301	262	14.8
California	42	*	-	42	*	NM
Oregon	-	1	-	1	*	191.9
Washington	36	31	28	68	50	34.6
U.S. Total	1,593	2,052	1,149	3,645	2,992	21.8

* 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, 1985-1993

Note: Each increment represents end of quarter data. Other methods of transportation include tramway, conveyor, or slurry pipeline.
Source: Energy Information Administration, Form EIA-8, "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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Rail						
Alabama	1,778	1,716	1,547	3,494	3,159	10.6
Alaska	152	186	146	338	332	1.6
Arizona	1,632	1,683	1,900	3,315	3,550	-6.6
Colorado	3,801	3,160	3,370	6,961	6,414	8.5
Illinois	5,181	6,183	8,129	11,365	16,109	-29.5
Indiana	3,386	3,491	4,485	6,878	9,675	-28.9
Kansas	36	15	4	51	4	NM
Kentucky Total	22,517	21,860	20,146	44,377	41,289	7.5
Eastern	19,867	19,179	17,765	39,046	36,157	8.0
Western	2,650	2,681	2,381	5,331	5,132	3.9
Maryland	434	420	605	855	1,049	-18.6
Missouri	10	-	39	10	72	-85.5
Montana	4,843	5,912	4,493	10,754	10,419	3.2
New Mexico	5,447	3,391	2,284	8,837	4,825	83.2
North Dakota	672	634	729	1,306	1,589	-17.8
Ohio	392	434	904	827	1,426	-42.1
Oklahoma	-	-	50	-	90	-
Pennsylvania Total	5,871	6,203	7,219	12,075	14,160	-14.7
Anthracite	77	61	59	138	93	48.4
Bituminous	5,794	6,143	7,160	11,937	14,067	-15.1
Tennessee	415	346	434	761	886	-14.1
Texas	5,538	5,495	5,982	11,033	12,427	-11.2
Utah	2,576	2,250	2,202	4,826	4,636	4.1
Virginia	5,783	5,390	5,608	11,174	10,987	1.7
West Virginia Total	13,762	14,230	14,508	27,992	29,526	-5.2
Northern	3,231	3,381	3,772	6,612	7,488	-11.7
Southern	10,531	10,849	10,736	21,380	22,038	-3.0
Wyoming	45,172	42,230	38,555	87,402	79,376	10.1
Appalachian Total	48,304	47,919	48,591	96,223	97,349	-1.2
Interior Total	16,802	17,866	21,070	34,668	43,506	-20.3
Western Total	64,294	59,446	53,679	123,740	111,141	11.3
East of the Miss. River	59,521	60,275	63,587	119,797	126,265	-6.6
West of the Miss. River	69,878	64,956	59,754	134,835	123,733	9.0
U.S. Total	129,400	125,232	123,341	254,631	251,998	1.0
Method of Transportation: River						
Alabama	633	385	584	1,018	1,140	-10.7
Colorado	213	110	63	323	86	274.4
Illinois	4,523	5,894	5,099	10,418	9,801	6.3
Indiana	1,047	1,388	1,052	2,435	2,095	16.2
Kentucky Total	9,759	8,449	9,487	18,208	18,893	-3.6
Eastern	4,448	3,393	3,113	7,840	6,657	17.8
Western	5,311	5,056	6,375	10,367	12,237	-15.3
Maryland	109	112	-	221	-	-
Ohio	1,561	2,427	1,405	3,988	3,563	11.9
Pennsylvania Total	2,246	2,834	2,355	5,080	4,271	18.9
Anthracite	-	1	-	1	2	-31.1
Bituminous	2,246	2,833	2,355	5,079	4,269	19.0
Tennessee	166	136	182	302	319	-5.3
Utah	21	155	-	177	-	-
Virginia	638	548	525	1,186	1,212	-2.2
West Virginia Total	10,046	8,797	8,568	18,843	17,280	9.0
Northern	3,720	4,112	4,042	7,832	8,202	-4.5
Southern	6,326	4,685	4,527	11,011	9,078	21.3
Wyoming	1,966	1,289	3,084	3,256	5,578	-41.6
Appalachian Total	19,848	18,631	16,732	36,479	34,442	11.7
Interior Total	10,882	12,338	12,526	23,220	24,133	-3.8
Western Total	2,200	1,554	3,147	3,755	5,664	-33.7
East of the Miss. River	30,729	30,969	29,259	61,699	58,575	5.3
West of the Miss. River	2,200	1,554	3,147	3,755	5,664	-33.7
U.S. Total	32,930	32,524	32,405	65,453	64,239	1.9

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Great Lakes						
Illinois	2	-	6	2	6	-63.0
Indiana	114	12	119	126	123	2.6
Kentucky Total	651	273	581	924	893	3.4
Eastern	643	273	574	916	886	3.4
Western	8	-	8	8	8	3.7
Montana	1,710	903	1,595	2,614	2,733	-4.4
Ohio	15	-	-	15	14	7.4
Pennsylvania Total	192	9	267	201	370	-45.6
Bituminous	192	9	267	201	370	-45.6
Virginia	94	-	12	94	12	NM
West Virginia Total	196	47	161	244	198	22.8
Northern	72	29	57	100	57	74.9
Southern	125	19	104	143	141	1.6
Wyoming	248	-	361	248	382	-35.2
Appalachian Total	1,141	329	1,014	1,470	1,480	-7
Interior Total	124	12	133	136	136	-2
Western Total	1,958	903	1,956	2,861	3,115	-8.1
East of the Miss. River	1,265	341	1,147	1,606	1,616	-6
West of the Miss. River	1,958	903	1,956	2,861	3,115	-8.1
U.S. Total	3,223	1,245	3,103	4,467	4,731	-5.6
Method of Transportation: Tidewater						
Illinois	-	-	33	-	48	-
Kentucky Total	999	604	893	1,603	1,970	-18.6
Eastern	928	604	893	1,533	1,970	-22.2
Western	70	-	-	70	-	-
Utah	52	-	-	52	-	-
Virginia	244	219	364	463	914	-49.4
West Virginia Total	885	822	1,290	1,707	2,280	-25.1
Northern	329	483	695	812	1,379	-41.1
Southern	556	339	595	895	901	-7
Appalachian Total	2,057	1,646	2,547	3,702	5,164	-28.3
Interior Total	70	-	33	70	48	47.3
Western Total	52	-	-	52	-	-
East of the Miss. River	2,127	1,646	2,580	3,773	5,212	-27.6
West of the Miss. River	52	-	-	52	-	-
U.S. Total	2,179	1,646	2,580	3,824	5,212	-26.6
Method of Transportation: Truck						
Alabama	2,314	2,283	2,045	4,596	4,334	6.1
Alaska	-	54	23	101	68	47.3
Arkansas	8	5	8	13	14	-6.3
California	-	-	28	-	80	-
Colorado	938	856	973	1,794	2,092	-14.3
Illinois	1,099	1,196	1,198	2,295	2,360	-2.7
Indiana	2,652	2,341	2,138	4,993	4,243	17.7
Iowa	36	53	63	89	151	-40.9
Kansas	58	80	81	138	151	-8.1
Kentucky Total	3,339	3,533	3,000	6,872	5,843	17.6
Eastern	2,070	2,093	2,059	4,163	3,965	5.0
Western	1,269	1,440	941	2,709	1,878	44.2
Louisiana	95	97	136	192	250	-23.0
Maryland	164	150	217	314	481	-31.8
Missouri	66	50	64	115	122	-5.5
Montana	43	87	38	129	115	12.9
New Mexico	1,090	4	-	1,094	3	NM
North Dakota	1,071	947	1,105	2,018	2,211	-8.7
Ohio	2,739	2,609	2,971	5,347	5,973	-10.5
Oklahoma	560	490	407	1,050	821	27.9
Pennsylvania Total	3,904	4,069	3,705	7,972	7,441	7.1
Anthracite	397	587	547	984	1,215	-19.1

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Truck (Continued)						
Bituminous	3,507	3,482	3,159	6,989	6,225	12.3
Tennessee	66	92	69	158	178	-11.1
Texas	3,572	3,204	3,391	6,777	6,358	6.6
Utah	1,475	1,536	1,515	3,011	3,211	-6.2
Virginia	49	204	59	253	199	27.1
Washington	24	41	13	65	13	411.9
West Virginia Total	1,844	1,700	1,657	3,545	3,402	4.2
Northern	1,196	1,154	1,170	2,350	2,328	.9
Southern	649	546	487	1,195	1,074	11.2
Wyoming	576	919	629	1,495	1,594	-6.2
Appalachian Total	13,149	13,199	12,781	26,349	25,953	1.5
Interior Total	9,416	8,957	8,426	18,373	16,348	12.4
Western Total	5,262	4,445	4,324	9,707	9,386	3.4
East of the Miss. River	18,170	18,176	17,058	36,347	34,434	5.6
West of the Miss. River	9,658	8,425	8,473	18,082	17,252	4.8
U.S. Total	27,828	26,601	25,531	54,429	51,687	5.3
Method of Transportation: Tramway, Conveyor and Slurry Pipeline						
Alabama	379	446	460	825	952	-13.3
Arizona	828	1,171	1,256	1,999	2,832	-24.0
Colorado	9	-	-	9	-	-
Illinois	221	386	165	607	816	-25.7
Indiana	155	178	150	333	314	6.2
Kentucky Total	260	-	574	260	1,229	-78.9
Western	260	-	574	260	1,229	-78.9
Louisiana	643	645	796	1,288	1,239	4.0
Missouri	-	174	675	174	1,236	-85.9
Montana	720	2,514	1,747	3,234	4,510	-28.3
New Mexico	-	3,190	3,375	3,190	6,412	-50.3
North Dakota	5,820	6,388	5,545	12,208	11,586	5.4
Ohio	1,871	2,182	1,704	4,053	4,173	-2.9
Pennsylvania Total	1,230	1,647	1,749	2,877	3,633	-20.8
Anthracite	174	91	72	265	159	67.1
Bituminous	1,056	1,557	1,677	2,613	3,475	-24.8
Texas	4,411	4,336	3,535	8,746	7,345	19.1
Utah	656	719	592	1,376	1,438	-4.3
Virginia	229	224	244	454	485	-6.5
Washington	999	1,145	1,305	2,144	2,517	-14.8
West Virginia Total	1,013	1,217	1,278	2,230	2,728	-18.2
Northern	1,013	1,217	1,278	2,230	2,728	-18.2
Wyoming	2,374	2,812	2,476	5,186	5,221	-.7
Appalachian Total	4,724	5,716	5,435	10,440	11,972	-12.8
Interior Total	5,688	5,719	5,896	11,407	12,179	-6.3
Western Total	11,405	17,940	16,296	29,345	34,317	-14.5
East of the Miss. River	5,359	6,281	6,324	11,639	14,331	-18.8
West of the Miss. River	16,459	23,094	21,303	39,553	44,137	-10.4
U.S. Total	21,817	29,375	27,627	51,192	58,468	-12.4

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

Census Division and State of Destination	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Rail						
New England Total	549	901	732	1,450	1,815	-20.1
Connecticut	.	.	45	.	61	-99.8
Maine	17	.	14	17	208	-91.7
Massachusetts	312	512	421	824	1,043	-21.0
New Hampshire	221	388	251	609	502	21.3
Rhode Island	.	.	.	.	.	-
Vermont	.	.	.	.	.	NM
Middle Atlantic Total	6,209	7,207	7,595	13,415	15,147	-11.4
New Jersey	369	468	318	837	888	21.7
New York	2,127	2,431	2,879	4,558	5,632	-19.1
Pennsylvania	3,713	4,308	4,397	8,021	8,828	-9.1
East North Central Total	28,131	28,263	28,850	56,394	58,618	-3.8
Illinois	5,311	5,466	5,355	10,776	10,618	1.5
Indiana	9,579	9,928	10,195	19,506	21,551	-9.5
Michigan	5,064	5,351	5,298	10,415	10,539	-1.2
Ohio	3,466	3,107	3,586	6,573	7,165	-8.3
Wisconsin	4,711	4,412	4,416	8,123	8,745	-4.3
West North Central Total	19,044	18,694	17,350	37,737	36,786	2.6
Iowa	4,523	3,272	3,532	7,795	7,482	4.2
Kansas	4,460	3,530	3,672	7,990	7,718	3.5
Minnesota	3,630	4,741	3,527	8,371	7,549	10.9
Missouri	3,654	4,085	4,116	7,740	8,356	-7.4
Nebraska	2,076	2,285	1,748	4,360	3,910	11.5
North Dakota	118	260	211	378	729	-48.2
South Dakota	583	521	545	1,103	1,044	5.7
South Atlantic Total	25,041	23,423	23,462	48,464	47,925	1.1
Delaware	684	416	383	1,100	796	38.1
District of Columbia	14	19	3	33	27	22.9
Florida	2,715	2,320	2,968	5,035	5,662	-11.1
Georgia	5,252	4,539	3,904	9,790	8,176	19.7
Maryland	1,491	1,932	1,742	3,423	3,444	-6
North Carolina	6,415	5,716	5,575	12,132	11,265	7.7
South Carolina	2,594	2,659	2,337	5,253	5,349	-1.8
Virginia	2,987	3,323	3,035	6,310	6,288	.4
West Virginia	2,889	2,500	3,514	5,389	6,919	-22.1
East South Central Total	10,297	10,243	8,507	20,540	17,370	18.3
Alabama	3,222	2,809	2,301	6,030	4,590	31.4
Kentucky	3,114	3,604	2,785	6,718	5,878	14.3
Mississippi	616	353	479	970	941	3.0
Tennessee	3,345	3,478	2,941	6,822	5,961	14.4
West South Central Total	23,618	21,226	22,615	44,844	45,396	-1.2
Arkansas	2,790	2,570	2,900	5,361	5,630	-4.8
Louisiana	1,173	1,188	1,017	2,361	2,299	2.7
Oklahoma	3,784	4,274	3,449	8,058	7,381	9.2
Texas	15,870	13,194	15,249	29,064	30,086	-3.4
Mountain Total	15,141	13,848	12,887	28,990	26,194	10.7
Arizona	4,350	4,398	4,042	8,747	8,113	7.8
Colorado	2,972	3,378	3,168	6,350	6,177	2.8
Idaho	70	25	51	95	122	-22.5
Montana	126	227	161	353	383	-8.0
Nevada	644	671	596	1,316	1,237	6.3
New Mexico	2,318	224	153	2,541	401	NM
Utah	1,965	1,931	1,577	3,896	3,063	27.2
Wyoming	2,697	2,994	3,138	5,692	6,696	-15.0
Pacific Total	1,369	1,427	1,344	2,796	2,746	1.8
Alaska	152	186	146	338	332	1.6
California	742	394	697	1,136	1,406	-19.2
Oregon	237	521	447	758	901	-15.9
Washington	238	326	54	564	107	429.0
U.S. Total	129,400	125,232	123,341	254,631	251,998	1.0
Method of Transportation: River						
New England Total	179	-	-	179	-	-
Massachusetts	179	-	-	179	-	-
Middle Atlantic Total	4,237	4,149	5,074	8,386	9,796	-14.4
New Jersey	37	7	22	45	30	49.9
New York	80	225	332	305	593	-48.6

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: River (Continued)						
Pennsylvania	4,119	3,917	4,720	8,037	9,174	-12.4
East North Central Total	9,011	9,054	9,493	18,065	19,993	-9.6
Illinois	1,018	740	760	1,759	1,613	9.1
Indiana	1,698	1,732	2,662	3,430	5,706	-39.9
Michigan	104	2	-	105	2	NM
Ohio	5,629	6,494	5,429	12,123	11,871	2.1
Wisconsin	582	86	642	648	802	-19.1
West North Central Total	1,590	949	2,361	2,539	3,642	-30.3
Iowa	513	122	1,208	636	1,531	-58.5
Kansas	-	18	3	18	3	420.6
Minnesota	19	2	56	20	76	-73.1
Missouri	1,058	808	1,094	1,865	2,031	-8.2
South Atlantic Total	6,524	7,335	5,827	13,859	11,809	17.4
Delaware	8	27	38	34	57	-40.1
Florida	2,912	2,798	2,410	5,710	5,201	9.8
Georgia	948	1,360	1,217	2,308	2,402	-3.9
Maryland	140	-	-	140	-	NM
North Carolina	5	-	-	5	-	-
South Carolina	22	15	13	38	13	182.3
Virginia	51	118	-	169	-	-
West Virginia	2,438	3,017	1,949	5,455	4,136	31.9
East South Central Total	9,578	9,546	8,184	19,124	16,218	17.9
Alabama	1,913	1,949	1,969	3,863	3,567	8.3
Kentucky	2,611	2,750	2,134	5,361	4,532	18.3
Mississippi	425	402	649	827	1,314	-37.0
Tennessee	4,628	4,445	3,431	9,073	6,805	33.3
West South Central Total	1,811	1,489	1,666	3,301	2,781	18.7
Arkansas	-	-	-	-	2	-
Louisiana	1,802	1,484	1,666	3,285	2,774	18.4
Oklahoma	10	6	-	15	6	162.4
U.S. Total	32,930	32,524	32,405	65,453	64,239	1.9
Method of Transportation: Great Lakes						
Middle Atlantic Total	-	-	7	-	8	-
New York	-	-	6	-	6	-
Pennsylvania	-	-	1	-	2	-
East North Central Total	2,986	1,245	2,913	4,230	4,531	-6.6
Illinois	-	-	-	-	21	-
Indiana	54	-	-	54	-	-
Michigan	2,537	1,158	2,382	3,693	3,846	-3.9
Ohio	86	-	127	86	140	-38.3
Wisconsin	308	86	404	394	523	-24.6
West North Central Total	237	-	183	237	193	23.0
Minnesota	237	-	183	237	193	23.0
U.S. Total	3,223	1,245	3,103	4,467	4,731	-5.6
Method of Transportation: Tidewater						
New England Total	331	250	1,025	581	2,160	-73.1
Connecticut	197	221	194	417	481	-9.4
Maine	120	14	79	134	255	-47.4
Massachusetts	-	1	737	1	1,400	-100.0
New Hampshire	14	15	15	29	44	-34.3
Middle Atlantic Total	151	236	213	387	595	-34.9
New Jersey	141	236	213	377	595	-36.6
Pennsylvania	10	-	-	10	-	-
South Atlantic Total	1,697	1,160	1,343	2,856	2,457	16.3
Florida	567	519	597	1,087	1,221	-11.0
Maryland	679	427	540	1,106	792	39.6
Virginia	450	213	206	664	444	49.5
U.S. Total	2,179	1,646	2,580	3,824	5,212	-26.6

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Truck						
New England Total	32	18	22	51	55	-7.9
Connecticut	1	5	9	6	16	-63.9
Maine	.	2	1	2	4	-31.7
Massachusetts	31	7	6	38	22	74.5
New Hampshire	.	2	1	2	4	-43.9
Rhode Island	.	1	.	1	1	-12.9
Vermont	.	1	4	1	9	-83.7
Middle Atlantic Total	4,042	3,934	3,754	7,976	7,364	8.3
New Jersey	2	6	3	8	8	-3.8
New York	266	292	256	557	560	-5
Pennsylvania	3,774	3,637	3,495	7,411	6,795	9.1
East North Central Total	6,907	6,730	6,598	13,537	13,320	1.6
Illinois	1,104	1,184	1,333	2,288	2,592	-11.7
Indiana	2,596	2,238	2,022	4,833	3,987	21.2
Michigan	231	181	104	412	235	75.2
Ohio	2,669	3,121	3,132	5,991	6,494	-7.8
Wisconsin	7	6	6	13	12	5.9
West North Central Total	1,512	1,436	1,588	2,948	3,177	-7.2
Iowa	39	105	67	145	154	-6.4
Kansas	51	63	41	114	115	-7
Minnesota	.	-	.	.	.	NM
Missouri	231	196	261	427	508	-16.0
North Dakota	1,071	947	1,105	2,018	2,211	-8.7
South Dakota	121	125	115	245	189	30.0
South Atlantic Total	2,096	2,107	1,924	4,203	4,199	.1
Delaware	3	4	4	7	5	35.6
District of Columbia	4	7	-	10	5	122.2
Florida	.	11	2	11	4	211.8
Georgia	35	56	41	91	98	-6.5
Maryland	123	230	189	353	361	-2.2
North Carolina	86	104	93	190	195	-2.7
South Carolina	26	65	62	91	132	-31.2
Virginia	144	352	144	496	415	19.8
West Virginia	1,675	1,277	1,389	2,952	2,985	-1.1
East South Central Total	5,045	5,223	4,606	10,269	9,181	11.8
Alabama	2,280	2,252	2,039	4,532	4,301	5.4
Kentucky	2,458	2,609	2,394	5,067	4,469	13.4
Mississippi	31	36	8	67	21	225.3
Tennessee	277	326	165	603	390	54.4
West South Central Total	4,222	3,786	3,936	8,008	7,404	8.2
Arkansas	60	42	40	102	67	52.9
Louisiana	95	97	136	192	250	-23.0
Oklahoma	450	414	368	864	715	20.8
Texas	3,616	3,233	3,393	6,849	6,373	7.5
Mountain Total	4,000	3,257	3,039	7,256	6,825	6.3
Arizona	9	17	3	25	20	27.6
Colorado	909	823	951	1,732	2,063	-16.0
Idaho	28	39	19	68	52	29.5
Montana	49	98	43	147	133	10.6
Nevada	30	31	9	61	24	150.8
New Mexico	1,111	21	18	1,132	37	NM
Utah	1,412	1,436	1,484	2,848	3,100	-8.1
Wyoming	452	791	512	1,243	1,396	-11.0
Pacific Total	71	110	64	181	162	12.2
Alaska	46	54	23	101	68	47.3
California	.	14	28	14	80	-82.8
Oregon	-	.	-	.	.	NM
Washington	24	42	13	66	13	408.9
U.S. Total	27,828	26,601	25,531	54,429	51,687	5.3
Method of Transportation: Tramway, Conveyor and Slurry Pipeline						
Middle Atlantic Total	1,230	1,647	1,749	2,877	3,633	-20.8
Pennsylvania	1,230	1,647	1,749	2,877	3,633	-20.8
East North Central Total	2,247	2,746	2,009	4,993	5,294	-5.7
Illinois	221	386	165	607	816	-25.7
Indiana	155	178	150	333	314	6.2
Ohio	1,871	2,182	1,695	4,053	4,164	-2.7

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	April- June 1993	January- March 1993	April- June 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Tramway, Conveyor and Slurry Pipeline (Continued)						
West North Central Total	5,820	6,563	6,220	12,383	12,822	-3.4
Missouri	-	174	675	174	1,236	-85.9
North Dakota	5,820	6,388	5,545	12,208	11,586	5.4
South Atlantic Total	1,243	1,441	1,532	2,684	3,223	-16.7
Virginia	229	224	244	454	485	-6.5
West Virginia	1,013	1,217	1,288	2,230	2,738	-18.5
East South Central Total	639	446	1,034	1,085	2,181	-50.3
Alabama	379	446	460	825	952	-13.3
Kentucky	260	-	574	260	1,229	-78.9
West South Central Total	5,062	4,981	4,331	10,043	8,584	17.0
Louisiana	643	645	796	1,288	1,239	4.0
Texas	4,419	4,336	3,535	8,755	7,345	19.2
Mountain Total	4,578	10,406	9,446	14,984	20,214	-25.9
Montana	720	2,514	1,747	3,234	4,510	-28.3
Nevada	828	1,171	1,256	1,999	2,632	-24.0
New Mexico	-	3,190	3,375	3,190	6,412	-50.3
Utah	656	719	592	1,376	1,438	-4.3
Wyoming	2,374	2,812	2,476	5,186	5,221	-7
Pacific Total	999	1,145	1,305	2,144	2,517	-14.8
Washington	999	1,145	1,305	2,144	2,517	-14.8
U.S. Total	21,817	29,375	27,627	51,192	58,468	-12.4

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

NA 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	April - June 1993			January - March 1993	April - June 1992	Year to Date		
	Used By Producing Companies	Commercial Sales	Total			1993	1992	Percent Change
Coke Total	5,063	2,390	7,453	7,529	7,595	14,982	14,790	1.3
By Consumer Category								
Blast Furnaces	5,031	1,939	6,970	7,034	7,120	14,004	13,862	1.0
Foundries	13	337	350	359	333	709	655	8.2
Other Industrial Plants	18	115	133	136	142	269	274	-1.6
By Plant Type								
Merchant Coke Plants	0	807	807	810	826	1,617	1,628	-7
Furnace Coke Plants	5,063	1,583	6,646	6,719	6,769	13,365	13,162	1.5
Breeze Total	174	296	470	447	593	917	1,118	-18.0

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

This bulkloader, at a coal export terminal in the Port of Los Angeles, is capable of handling 10 million tons of coal a year.

Table 14. U.S. Coal Exports and Imports, 1985-1993
(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
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
1993	18,870	1,213	19,946	1,093	NA	NA	NA	NA	38,816	2,306

NA Not available.

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, 1985-1993
(Dollars per Short Ton)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
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
1993	42.46	30.70	41.42	32.26	NA	NA	NA	NA	NA	NA

NA Not available.

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, 1985-1993

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	3,518,990	367,570	4,831,879	3,886,560	6,068,695	-36.0
Canada ¹	3,423,726	258,604	4,791,776	3,682,330	5,965,348	-38.3
Dominican Republic	24,891	163	18,404	25,054	35,053	-28.5
Jamaica	13,104	-	13,227	13,104	13,227	-.9
Mexico	56,215	108,676	8,074	164,891	54,584	202.1
Other ²	1,054	127	198	1,181	483	144.5
South America Total	1,391,623	1,865,760	1,946,630	3,257,383	3,530,324	-7.7
Argentina	137,249	157,385	100,283	294,634	196,552	49.9
Brazil	1,233,886	1,701,969	1,809,509	2,935,855	3,293,168	-10.9
Chile	-	-	27,090	-	27,090	-
Other ²	20,488	6,406	11,948	26,894	13,514	99.0
Europe Total	9,961,476	11,068,290	15,026,886	21,029,766	31,121,867	-32.4
Albania	-	-	-	-	22,284	-
Belgium & Luxembourg	1,596,759	900,791	1,975,303	2,497,550	3,883,994	-35.7
Bulgaria	230,106	222,682	55,742	452,788	167,506	170.3
Denmark	105,693	230,243	1,058,069	335,936	2,118,186	-84.1
Finland	142,756	72,778	205,160	215,534	205,160	5.1
France	656,165	1,765,642	2,057,003	2,421,807	4,878,872	-50.4
Germany, FR	84,667	321,459	252,167	406,126	569,838	-28.7
Ireland	352,888	248,252	299,526	601,140	651,644	-7.8
Italy	1,805,606	1,779,586	2,591,972	3,585,192	5,432,555	-34.0
Netherlands	1,470,692	1,914,534	2,538,264	3,385,226	4,841,269	-30.1
Norway	25,649	25,023	24,864	50,672	49,113	3.2
Portugal	524,804	545,789	525,856	1,070,593	857,556	24.8
Romania	97,478	309,577	253,352	407,055	404,545	.6
Spain	1,220,526	907,244	1,036,915	2,127,770	2,480,302	-14.2
Sweden	166,748	167,064	171,415	333,812	335,570	-.5
Turkey	394,332	389,043	539,335	783,375	816,436	-4.0
United Kingdom	1,086,607	1,225,756	1,377,103	2,312,363	2,974,847	-22.3
Yugoslavia	-	42,827	58,845	42,827	416,408	-89.7
Other ²	-	-	7,995	-	15,782	-
Asia Total	4,427,204	5,039,956	4,626,048	9,467,160	9,685,476	-2.3
China (Taiwan)	690,878	789,961	878,547	1,480,839	1,573,778	-5.9
Hong Kong	-	-	114,920	-	114,920	-
Israel	246,875	121,848	310,073	368,723	433,998	-15.0
Japan	2,468,663	3,439,611	2,594,183	5,908,274	6,085,461	-2.9
Korea, Republic of	1,019,212	688,208	726,778	1,707,420	1,473,554	15.9
Other ²	1,576	328	1,547	1,904	3,765	-49.4
Oceania & Australia Total	-	342	-	342	286	19.6
Africa Total	646,959	527,858	576,679	1,174,817	1,334,504	-12.0
Algeria	110,146	118,447	186,970	228,593	314,077	-27.2
Egypt	122,399	176,325	102,100	298,724	405,938	-26.4
Morocco	193,730	147,843	214,966	341,573	393,158	-13.1
South Africa, Rep of	197,565	85,243	72,643	282,808	221,331	27.8
Other ²	23,119	-	-	23,119	-	-
Total	19,946,252	18,869,776	27,010,122	38,816,026	51,741,152	-25.0

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 1992.

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$34.10	\$39.56	\$33.32	\$34.63	\$33.18	4.4
Canada ¹	33.92	37.36	33.29	34.17	33.06	3.4
Dominican Republic	36.60	40.73	37.45	36.63	36.67	-1
Mexico	43.62	44.60	41.94	44.27	44.76	-1.1
Other ²	35.11	40.63	34.68	35.72	34.64	3.1
South America Total	44.22	44.58	45.98	44.43	45.84	-3.1
Argentina	43.54	43.19	45.45	43.35	45.07	-3.8
Brazil	44.32	44.73	46.06	44.56	45.91	-2.9
Chile	-	-	47.38	-	47.38	-
Other ²	40.08	39.39	34.47	39.76	35.19	13.0
Europe Total	43.47	42.79	42.59	43.11	42.60	1.2
Belgium & Luxembourg	44.04	43.35	43.98	43.80	44.07	-6
Bulgaria	41.72	42.23	45.04	41.97	44.08	-4.8
Denmark	36.29	34.34	32.90	34.95	33.42	4.6
Finland	40.33	36.97	40.81	39.19	40.81	-4.0
France	44.39	39.85	38.86	41.08	38.50	6.7
Germany, FR	43.15	38.32	37.00	39.33	37.73	4.2
Ireland	33.57	38.70	36.15	35.69	36.08	-1.1
Italy	44.92	44.09	45.43	44.51	45.67	-2.5
Netherlands	42.99	44.55	44.25	43.87	43.80	.2
Norway	-	-	-	-	42.27	-
Portugal	36.42	38.56	40.21	37.51	40.59	-7.6
Romania	35.29	37.12	43.25	36.55	44.10	-17.1
Spain	46.94	46.73	45.48	46.85	45.95	2.0
Sweden	45.75	46.36	47.34	46.05	46.89	-1.8
Turkey	42.54	43.04	45.85	42.79	46.12	-7.2
United Kingdom	46.05	45.65	44.87	45.84	45.77	.1
Yugoslavia	-	48.31	43.77	48.31	44.02	9.7
Other ²	-	-	37.00	-	37.00	-
Asia Total	41.57	41.30	42.94	41.42	43.39	-4.5
China (Taiwan)	40.78	40.09	42.05	40.41	41.57	-2.8
Hong Kong	-	-	37.56	-	37.56	-
Israel	33.87	35.11	39.44	34.28	39.57	-13.4
Japan	41.93	41.42	43.41	41.63	43.87	-5.1
Korea, Republic of	43.12	43.16	44.69	43.14	44.93	-4.0
Other ²	36.27	44.27	40.44	37.57	40.33	-6.8
Oceania & Australia Total	-	34.43	-	34.43	34.50	-2
Africa Total	42.47	42.53	41.57	42.50	42.80	-7
Algeria	44.74	45.01	45.52	44.88	46.42	-3.3
Egypt	44.93	46.44	46.19	45.82	45.70	.3
Morocco	33.81	33.92	34.02	33.86	33.84	*
South Africa, Rep of	48.20	45.92	47.25	47.52	48.27	-1.6
Other ²	42.18	-	-	42.18	-	-
Total³	41.45	42.49	41.24	41.96	41.88	.2
U.S. Total⁴	41.42	42.46	41.34	41.93	41.79	.3

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 1992.

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.

* Rounded to zero

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	1,678,396	79,750	3,278,121	1,758,146	4,271,737	-58.8
Canada ¹	1,625,848	56,243	3,238,281	1,682,091	4,204,494	-60.0
Dominican Republic	24,891	163	18,404	25,054	35,053	-28.5
Jamaica	13,104	-	13,227	13,104	13,227	-9
Mexico	13,521	23,217	8,011	36,738	18,480	98.8
Other ²	1,032	127	198	1,159	483	140.0
South America Total	27,108	169,904	40,806	197,012	42,769	360.6
Argentina	999	67	135	1,066	482	121.2
Brazil	5,621	163,431	28,648	169,052	28,698	489.1
Chile	-	-	75	-	75	-
Other ²	20,488	6,406	11,948	26,894	13,514	99.0
Europe Total	2,614,025	4,170,935	6,359,433	6,784,960	13,374,319	-49.3
Belgium & Luxembourg	273,744	209,758	638,380	483,502	1,136,698	-57.5
Denmark	-	230,243	1,056,069	230,243	2,118,186	-89.1
France	-	775,442	1,044,139	775,442	2,611,145	-70.3
Germany, FR	13,088	224,448	184,893	237,536	479,533	-50.5
Ireland	352,888	248,252	299,526	601,140	651,644	-7.8
Italy	476,519	640,240	824,132	1,116,759	1,843,538	-39.4
Netherlands	618,941	697,094	982,893	1,316,035	1,995,657	-34.1
Norway	13,281	5,616	7,136	18,897	13,723	37.7
Portugal	474,221	497,298	483,511	971,519	768,781	26.4
Romania	-	121,700	-	121,700	-	-
Spain	274,460	210,338	409,434	484,798	1,080,909	-55.1
Sweden	-	-	-	-	247	-
Turkey	-	312	245	312	316	-1.3
United Kingdom	116,883	310,194	429,075	427,077	673,942	-36.6
Asia Total	1,707,537	2,186,612	1,824,918	3,894,149	3,233,674	20.4
China (Taiwan)	690,878	699,024	781,498	1,389,902	1,369,218	1.5
Hong Kong	-	-	114,920	-	114,920	-
Israel	246,875	121,848	167,182	368,723	291,071	26.7
Japan	513,122	1,189,581	510,500	1,702,703	1,048,650	62.4
Korea, Republic of	255,086	175,831	249,271	430,917	406,050	6.1
Other ²	1,576	328	1,547	1,904	3,765	-49.4
Oceania & Australia Total	-	342	-	342	286	19.6
Africa Total	193,730	147,843	214,966	341,573	393,158	-13.1
Morocco	193,730	147,843	214,966	341,573	393,158	-13.1
Total	6,220,796	6,755,386	11,718,244	12,976,182	21,315,943	-39.1

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 1992.

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$32.01	\$35.62	\$31.80	\$32.17	\$31.69	1.5
Canada ¹	31.89	31.59	31.75	31.88	31.63	.8
Dominican Republic	36.60	40.73	37.45	36.63	36.67	-.1
Mexico	36.59	43.81	41.94	41.20	37.11	11.0
Other ²	35.11	40.63	34.68	35.72	34.64	3.1
South America Total	39.75	40.60	38.95	40.56	39.01	4.0
Argentina	37.39	-	-	37.39	40.80	-8.3
Brazil	-	40.65	40.82	40.65	40.82	-.4
Chile	-	-	40.96	-	40.96	-
Other ²	40.08	39.39	34.47	39.76	35.19	13.0
Europe Total	37.08	37.39	36.97	37.27	36.94	.9
Belgium & Luxembourg	32.21	37.05	36.38	34.31	36.60	-6.3
Denmark	-	34.34	32.90	34.34	33.42	2.8
France	-	31.87	33.75	31.87	33.83	-5.8
Germany, FR	28.60	34.64	34.21	34.31	36.31	-5.5
Ireland	33.57	38.70	36.15	35.69	36.08	-1.1
Italy	41.03	39.93	41.13	40.40	41.52	-2.7
Netherlands	38.96	40.90	39.54	39.99	39.05	2.4
Portugal	36.08	38.82	40.16	37.48	40.25	-6.9
Romania	-	36.29	-	36.29	-	-
Spain	37.00	35.19	38.31	35.78	37.99	-5.8
Sweden	-	-	-	-	34.53	-
Turkey	-	40.84	40.71	40.84	40.72	.3
United Kingdom	38.07	40.11	39.14	39.55	38.71	2.2
Asia Total	37.64	36.69	39.76	37.11	39.15	-5.2
China (Taiwan)	40.78	39.36	41.63	40.06	40.97	-2.2
Hong Kong	-	-	37.56	-	37.56	-
Israel	33.87	35.11	38.84	34.28	39.30	-12.8
Japan	36.53	35.58	37.79	35.87	36.85	-2.7
Korea, Republic of	35.00	34.69	39.52	34.88	39.30	-11.3
Other ²	36.27	44.27	40.44	37.57	40.33	-6.8
Oceania & Australia Total	-	34.43	-	34.43	34.50	-.2
Africa Total	33.81	33.92	34.02	33.86	33.84	*
Morocco	33.81	33.92	34.02	33.86	33.84	*
Total³	35.62	37.14	35.94	36.52	36.17	1.0
U.S. Total⁴	36.24	36.90	36.13	36.58	35.95	1.8

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 1992.

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.

* Rounded to zero

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	1,840,594	287,820	1,553,558	2,128,414	1,796,958	18.4
Canada ¹	1,797,878	202,361	1,553,495	2,000,239	1,760,854	13.6
Mexico	42,694	85,459	63	128,153	36,104	255.0
Other ²	22	-	-	22	-	-
South America Total	1,364,515	1,695,856	1,908,024	3,060,371	3,487,555	-12.2
Argentina	136,250	157,318	100,148	293,568	196,070	49.7
Brazil	1,228,265	1,538,538	1,780,861	2,766,803	3,264,470	-15.2
Chile	-	-	27,015	-	27,015	-
Europe Total	7,347,451	8,897,355	8,667,453	14,244,806	17,747,548	-19.7
Albania	-	-	-	-	22,284	-
Belgium & Luxembourg	1,323,015	691,033	1,336,923	2,014,048	2,747,296	-26.7
Bulgaria	230,106	222,682	55,742	452,788	167,506	170.3
Denmark	105,693	-	-	105,693	-	-
Finland	142,756	72,778	205,160	215,534	205,160	5.1
France	656,165	990,200	1,012,864	1,646,365	2,267,727	-27.4
Germany, FR	71,579	97,011	67,274	168,590	90,305	86.7
Italy	1,329,087	1,139,346	1,767,840	2,468,433	3,589,017	-31.2
Netherlands	851,751	1,217,440	1,555,371	2,069,191	2,845,612	-27.3
Norway	12,368	19,407	17,728	31,775	35,390	-10.2
Portugal	50,583	48,491	42,345	99,074	88,775	11.6
Romania	97,478	187,877	253,352	285,355	404,545	-29.5
Spain	946,066	696,906	627,481	1,642,972	1,399,393	17.4
Sweden	166,748	167,064	171,415	333,812	335,323	-5
Turkey	394,332	388,731	539,090	783,063	816,120	-4.1
United Kingdom	969,724	915,562	948,028	1,885,286	2,300,905	-18.1
Yugoslavia	-	42,827	58,845	42,827	416,408	-89.7
Other ²	-	-	7,995	-	15,782	-
Asia Total	2,719,667	2,853,344	2,801,130	5,573,011	6,451,802	-13.6
China (Taiwan)	-	90,937	97,049	90,937	204,560	-55.5
Israel	-	-	142,891	-	142,927	-
Japan	1,955,541	2,250,030	2,083,683	4,205,571	5,036,811	-16.5
Korea, Republic of	764,126	512,377	477,507	1,276,503	1,067,504	19.6
Africa Total	453,229	380,015	361,713	833,244	941,346	-11.5
Algeria	110,148	118,447	186,970	228,593	314,077	-27.2
Egypt	122,399	176,325	102,100	298,724	405,938	-26.4
South Africa, Rep of	197,565	85,243	72,643	282,808	221,331	27.8
Other ²	23,119	-	-	23,119	-	-
Total	13,725,456	12,114,390	15,291,878	25,839,846	30,425,209	-15.1

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 1992.

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$35.82	\$40.53	\$36.44	\$36.46	\$36.65	-0.5
Canada ¹	35.58	38.72	36.44	35.90	36.42	-1.4
Mexico	45.80	44.82	-	45.14	47.92	-5.8
South America Total	44.25	44.98	46.11	44.86	45.91	-2.7
Argentina	43.58	43.19	45.45	43.37	45.08	-3.8
Brazil	44.32	45.17	46.13	44.79	45.95	-2.5
Chile	-	-	47.40	-	47.40	-
Europe Total	45.53	46.03	46.68	45.77	46.74	-2.1
Belgium & Luxembourg	46.48	45.47	47.61	46.16	47.16	-2.1
Bulgaria	41.72	42.23	45.04	41.97	44.08	-4.8
Denmark	36.29	-	-	36.29	-	-
Finland	40.33	36.87	40.81	39.19	40.81	-4.0
France	44.39	46.10	44.13	45.42	43.95	3.4
Germany, FR	45.81	46.84	44.68	46.40	45.25	2.5
Italy	46.31	46.43	47.52	46.37	47.84	-3.1
Netherlands	45.92	46.64	47.23	46.34	47.13	-1.7
Norway	-	-	-	-	42.27	-
Portugal	39.63	35.95	40.77	37.83	43.53	-13.1
Romania	35.29	38.24	43.25	36.71	44.10	-16.7
Spain	47.31	47.95	48.79	47.59	48.94	-2.8
Sweden	45.75	46.36	47.34	46.05	46.90	-1.8
Turkey	42.54	43.04	45.85	42.79	46.13	-7.2
United Kingdom	47.02	47.52	47.47	47.26	47.73	-1.0
Yugoslavia	-	48.31	43.77	48.31	44.02	9.7
Other ²	-	-	37.00	-	37.00	-
Asia Total	44.10	44.82	45.01	44.48	45.51	-2.3
China (Taiwan)	-	45.69	45.42	45.69	45.62	.2
Israel	-	-	40.13	-	40.13	-
Japan	43.40	44.51	44.78	44.00	45.33	-2.9
Korea, Republic of	45.83	46.06	47.38	45.92	47.07	-2.4
Africa Total	46.17	45.88	46.06	46.04	46.54	-1.1
Algeria	44.74	45.01	45.52	44.88	46.42	-3.3
Egypt	44.93	46.44	46.19	45.82	45.70	.3
South Africa, Rep of	48.20	45.92	47.25	47.52	48.27	-1.6
Other ²	42.18	-	-	42.18	-	-
Total³	43.04	45.45	45.25	44.59	45.78	-2.6
U.S. Total⁴	43.77	45.57	45.34	44.61	45.88	-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 1992.

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
Eastern Total	12,630,637	12,527,126	16,970,553	25,157,763	34,102,395	-26.2
Boston, MA	33,361	-	-	33,361	-	-
Baltimore, MD	2,075,223	1,837,705	2,525,074	3,912,928	4,821,135	-18.8
Portland, ME	532	170	105	702	105	(¹)
Buffalo, NY	41,601	11,721	689,111	53,322	727,279	-92.7
New York City, NY	273	216	1,775	489	2,885	-83.1
Ogdensburg, NY	12,993	2,797	6,421	15,790	9,138	72.8
Philadelphia, PA	66,862	968	106,773	67,830	107,335	-36.8
Norfolk, VA	10,399,769	10,673,549	13,641,248	21,073,318	28,434,295	-25.9
St. Albans, VT	23	-	46	23	223	-89.7
Southern Total	3,511,034	5,043,609	5,347,918	8,554,723	11,070,540	-22.7
Mobile, AL	1,474,164	1,567,711	1,410,850	3,041,875	3,563,744	-14.6
Savannah, GA	-	-	-	-	34,955	-
Miami, FL	999	753	420	1,752	678	158.4
New Orleans, LA	1,993,606	3,182,572	3,604,702	5,176,178	7,000,062	-26.1
San Juan, PR	78	-	-	78	-	-
Charleston, SC	12,368	217,391	299,878	229,759	390,571	-41.2
El Paso, TX	-	-	421	-	421	-
Houston-Galveston, TX	16,526	52,475	24,084	69,001	63,586	8.5
Laredo, TX	13,293	22,787	7,563	36,080	16,523	118.4
Western Total	533,817	1,113,603	732,042	1,647,420	1,475,089	11.7
Anchorage, AK	245,648	175,831	237,858	421,479	394,025	7.0
Nogales, AZ	228	62	-	290	-	-
Los Angeles, CA	277,994	877,715	430,617	1,155,709	983,015	17.6
San Diego, CA	262	424	90	686	1,698	-59.6
Great Falls, MT	183	-	-	183	-	-
Seattle, WA	9,522	59,571	63,477	69,093	96,351	-28.3
Northern Total	3,264,447	180,226	3,836,390	3,444,673	4,966,528	-30.6
Chicago, IL	-	-	183	-	183	-
Detroit, MI	123,451	2,975	601,336	126,426	664,014	-81.0
Duluth, MN	-	-	-	-	118,762	-
Pembina, ND	214	-	-	214	-	-
Cleveland, OH	3,140,782	177,251	3,234,861	3,318,033	4,183,549	-20.7
Other Ports	6,317	5,132	123,229	11,449	126,600	-91.0
Total	19,946,252	18,669,776	27,010,122	38,616,026	51,741,152	-25.0

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	129,473	52,229	101,826	181,702	143,723	26.4
Canada ¹	81,822	35,281	79,631	117,103	96,826	20.9
Mexico	41,639	16,328	21,443	58,167	45,782	27.1
Other ²	5,812	620	752	6,432	1,115	476.9
South America Total	-	11,364	21,418	11,364	66,705	-83.0
Europe Total	59,691	31,243	30,979	90,934	50,425	80.3
Asia Total	145	116	2,899	261	12,143	-97.9
Total	189,309	94,952	157,122	284,261	272,996	4.1

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 1992.

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	277,164	174,159	254,829	451,323	512,412	-11.9
Canada	276,515	174,159	254,829	450,674	512,412	-12.0
Mexico	649	-	-	649	-	-
South America Total	639,436	796,587	630,324	1,436,023	1,020,444	40.7
Colombia	474,610	552,051	538,661	1,026,661	780,144	31.6
Venezuela	164,826	244,536	91,663	409,362	240,300	70.4
Europe Total	2	-	-	2	-	-
Poland	2	-	-	2	-	-
Asia Total	114,806	242,374	140,139	356,980	140,139	154.7
Hong Kong	-	-	1	-	1	-
Indonesia	114,806	242,374	140,138	356,980	140,138	154.7
Oceania & Australia Total	53,797	-	18,065	53,797	49,196	9.4
Australia	53,797	-	18,065	53,797	49,196	9.4
Africa Total	7,549	-	-	7,549	-	-
South Africa, Rep of	7,549	-	-	7,549	-	-
Total	1,092,554	1,213,120	1,043,357	2,305,674	1,722,191	33.9

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$28.04	\$22.55	\$26.13	\$25.93	\$25.37	2.2
Canada	28.06	22.55	26.13	25.93	25.37	2.2
Mexico	21.07	-	-	21.07	-	-
South America Total	29.67	26.81	33.00	29.20	34.81	-16.1
Colombia	28.99	29.06	32.94	29.03	33.16	-12.5
Venezuela	31.63	28.26	33.33	29.62	40.19	-26.3
Asia Total	45.69	38.93	37.32	41.10	37.32	10.1
Indonesia	45.69	38.93	37.32	41.10	37.32	10.1
Oceania & Australia Total	30.65	-	47.61	30.65	38.60	-20.6
Australia	30.65	-	47.61	30.65	38.60	-20.6
Total¹	31.10	30.09	32.28	30.56	32.46	-5.8
U.S. Total²	32.26	30.70	32.96	31.44	33.22	-5.4

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 26. Coal Imports by Customs District
(Short Tons)

Customs District	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
Eastern Total	100,108	143,279	68,900	243,387	196,270	24.0
Boston, MA	40,787	89,276	34,449	130,063	69,130	88.1
Portland, ME	24,315	26,479	18	50,794	58,383	-13.0
New York City, NY	2	-	-	2	-	-
Philadelphia, PA	35,004	27,524	34,433	62,528	68,777	-9.1
Southern Total	547,528	727,864	561,443	1,275,392	824,193	54.7
Mobile, AL	64,720	140,644	-	205,364	-	-
Tampa, FL	433,792	407,446	459,277	841,238	609,190	38.1
New Orleans, LA	7,549	70,272	-	77,821	-	-
San Juan, PR	-	55,363	50,778	55,363	77,635	-28.7
Laredo, TX	649	-	-	649	-	-
Virgin Islands	40,818	54,139	51,388	94,957	137,368	-30.9
Western Total	186,924	189,983	166,962	376,907	213,467	76.6
Honolulu, HI	188,403	167,818	158,203	336,221	189,334	77.6
Great Falls, MT	12,409	11,141	8,715	23,550	19,069	23.5
Seattle, WA	6,112	11,024	44	17,136	5,064	238.4
Northern Total	257,994	151,994	246,052	409,988	488,261	-16.0
Chicago, IL	14,644	-	53,420	14,644	110,252	-86.7
Detroit, MI	58,135	-	-	58,135	-	-
Duluth, MN	87	212	-	299	-	-
Pembina, ND	185,128	151,782	192,632	336,910	378,009	-10.9
Total	1,092,554	1,213,120	1,043,357	2,305,674	1,722,191	33.9

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

Continent and Country of Origin	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	5,309	6,012	25,906	11,321	35,653	-68.2
Canada	5,309	6,012	25,906	11,321	35,653	-68.2
Asia Total	431,581	306,302	359,569	737,883	811,096	-9.0
China (Mainland)	65	-	-	65	-	-
Japan	431,516	306,302	359,569	737,818	811,096	-9.0
Oceania & Australia Total	48,259	47,811	44,950	96,070	92,008	4.4
Australia	48,259	47,811	44,950	96,070	92,008	4.4
Total	485,149	360,125	430,425	845,274	938,757	-10.0

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

Glowing coke, for use at a steel plant, is carried in a quenching car to a quenching tower for cooling.

Figure 8. Quarterly U.S. Coal Receipts, 1985-1993

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, 1985-1993
(Thousand Short Tons)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial	Residential and Commercial	Total
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	186,743	9,466	19,108	1,613	216,930
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	10,482	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	190,139	8,410	17,902	1,843	218,294
April - June	187,772	7,915	17,873	1,149	214,708
July - September	201,143	7,592	18,503	1,236	228,473
October - December	196,909	8,110	19,625	1,925	226,569
Total	775,963	32,027	73,903	6,153	888,048
1993 January - March	188,342	7,951	18,245	2,052	216,590
April - June	190,107	8,067	18,697	1,593	218,463
Total	378,449	16,018	36,942	3,645	435,054

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, 1985-1993

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-6, "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, 1985-1993
(Dollars per Short Ton)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial ¹
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	30.64	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	29.48	47.88	33.56
April - June	29.76	48.22	31.93
July - September	29.01	48.06	32.36
October - December	29.21	47.51	33.25
Average Annual Price	29.36	47.92	32.78
1993 January - March	28.65	48.50	32.90
April - June	28.94	47.41	32.16

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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
New England Total	1,574	1,661	1,715	3,235	3,788	-14.6
Connecticut	223	244	224	467	471	-7
Maine	138	66	94	203	467	-56.5
Massachusetts	947	918	1,125	1,865	2,230	-16.4
New Hampshire	266	431	267	696	609	14.3
Rhode Island	*	1	*	1	1	-12.9
Vermont	*	1	5	2	9	-79.5
Middle Atlantic Total	16,752	17,145	16,211	33,997	36,103	-6.1
New Jersey	624	725	655	1,349	1,350	-1
New York	2,357	2,762	3,410	5,119	6,570	-22.1
Pennsylvania	13,772	13,659	14,145	27,430	28,183	-2.7
East North Central Total	50,057	46,041	51,180	96,099	100,111	-4.0
Illinois	8,051	8,287	7,852	16,339	16,145	1.2
Indiana	14,226	13,936	15,189	28,182	30,926	-8.9
Michigan	8,630	4,457	8,883	13,087	13,602	-3.8
Ohio	13,821	14,973	14,153	28,793	29,902	-3.7
Wisconsin	5,330	4,387	5,123	9,717	9,535	1.9
West North Central Total	28,010	28,367	27,198	56,377	56,358	*
Iowa	5,125	3,844	4,834	8,969	8,837	1.5
Kansas	4,477	3,460	3,609	7,937	7,387	7.4
Minnesota	3,670	4,642	3,409	8,313	7,432	11.9
Missouri	5,009	5,431	6,357	10,440	12,837	-18.7
Nebraska	2,080	2,402	1,754	4,482	3,925	14.2
North Dakota	6,991	8,002	6,827	14,993	14,788	1.4
South Dakota	658	586	608	1,244	1,152	8.0
South Atlantic Total	35,731	34,273	34,015	70,004	69,025	1.4
Delaware	656	528	324	1,184	781	51.6
District of Columbia	17	28	3	43	31	37.9
Florida	6,494	6,253	6,433	12,747	12,713	.3
Georgia	6,408	5,971	5,177	12,379	10,933	13.2
Maryland	2,227	2,373	2,694	4,599	4,931	-6.7
North Carolina	5,744	5,344	4,934	11,088	10,212	8.6
South Carolina	3,001	2,883	2,441	5,884	5,345	10.1
Virginia	3,219	3,298	3,494	6,517	7,158	-9.0
West Virginia	7,966	7,598	8,517	15,563	16,920	-8.0
East South Central Total	25,881	26,199	22,181	52,080	45,501	14.5
Alabama	8,394	7,948	7,257	16,342	14,936	9.4
Kentucky	9,138	9,843	7,858	18,981	16,512	14.9
Mississippi	1,151	752	970	1,903	1,750	8.8
Tennessee	7,198	7,655	6,095	14,854	12,302	20.7
West South Central Total	34,409	32,570	32,362	66,979	64,126	4.4
Arkansas	2,861	2,626	2,955	5,488	5,835	-5.9
Louisiana	3,463	3,239	3,461	6,702	6,304	6.3
Oklahoma	3,981	4,443	3,582	8,424	7,739	8.9
Texas	24,103	22,262	22,355	46,365	44,250	4.8
Mountain Total	23,718	27,714	25,182	51,433	52,706	-2.4
Arizona	4,357	4,403	4,051	8,760	8,138	7.6
Colorado	3,843	4,320	4,075	8,163	8,218	-7
Idaho	98	124	78	222	261	-15.0
Montana	695	2,838	1,971	3,732	5,044	-26.0
Nevada	1,509	1,866	1,937	3,375	4,004	-15.7
New Mexico	3,435	3,380	3,537	6,815	6,833	-.3
Utah	4,029	4,115	3,485	8,143	7,228	12.7
Wyoming	5,553	6,669	6,049	12,222	12,980	-5.8
Pacific Total	2,330	2,620	2,674	4,950	5,265	-6.3
Alaska	143	160	113	303	262	15.6
California	663	411	699	1,074	1,417	-24.2
Hawaii	-	-	41	-	41	-
Oregon	238	536	448	774	907	-14.7
Washington	1,286	1,512	1,374	2,799	2,658	5.3
U.S. Total	218,463	216,590	214,708	435,054	433,003	.5

* Rounded to zero.

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	April-June 1993		April-June 1992		Year to Date					
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	1993		1992		Percent Change	
					Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	1,347	166	1,505	177	2,836	167	3,128	175	-9.3	-4.5
Connecticut	192	171	215	220	431	170	455	212	-5.3	-19.8
Massachusetts	890	167	1,053	170	1,775	168	2,099	169	-15.4	-6
New Hampshire	265	159	237	167	630	163	574	169	9.7	-3.1
Mid Atlantic	11,797	144	13,727	149	24,224	145	26,669	153	-9.8	-5.0
New Jersey	560	176	573	173	1,198	178	1,197	174	.1	2.1
New York	1,664	144	2,568	150	3,776	146	4,976	152	-24.1	-3.6
Pennsylvania	9,573	142	10,566	147	19,250	143	20,696	152	-7.0	-6.0
East North Central	42,137	141	43,481	145	80,277	141	84,649	146	-5.2	-3.2
Illinois	6,404	173	6,345	170	12,842	174	13,186	171	-2.6	1.7
Indiana	11,016	127	12,231	130	21,814	127	24,902	131	-12.4	-3.1
Michigan	7,757	152	8,098	158	11,696	153	12,314	158	-5.0	-3.5
Ohio	12,102	138	12,143	144	25,111	138	25,566	144	-1.8	-4.0
Wisconsin	4,858	121	4,664	132	8,815	120	8,681	136	1.5	-11.7
West North Central	24,935	102	24,338	113	50,095	102	50,506	111	-8	-8.2
Iowa	4,429	104	3,981	120	7,810	100	7,745	112	.8	-10.9
Kansas	4,442	103	3,585	116	7,854	103	7,340	118	7.0	-13.3
Minnesota	3,457	118	3,307	122	7,804	117	7,029	123	11.0	-5.2
Missouri	4,625	121	6,017	133	9,734	124	12,189	134	-20.1	-7.1
Nebraska	2,041	78	1,724	75	4,358	78	3,816	75	14.2	4.2
North Dakota	5,359	74	5,178	73	11,445	73	11,331	71	1.0	2.1
South Dakota	582	109	545	116	1,091	109	1,056	118	3.3	-7.1
South Atlantic	31,269	163	29,562	166	60,933	163	59,753	167	2.0	-2.3
Delaware	612	169	264	171	1,105	170	687	174	60.9	-2.4
Florida	6,159	177	6,099	182	12,110	176	12,090	185	.2	-4.7
Georgia	5,985	176	4,775	185	11,463	178	10,018	185	14.4	-3.7
Maryland	2,035	156	2,497	160	4,234	158	4,579	162	-7.5	-2.6
North Carolina	5,123	168	4,187	180	9,741	171	8,709	179	11.8	-4.7
South Carolina	2,406	158	1,988	152	4,629	157	4,342	152	6.6	3.4
Virginia	2,224	146	2,255	146	4,397	147	4,517	146	-2.6	.3
West Virginia	6,726	143	7,497	146	13,254	144	14,811	147	-10.5	-2.3
East South Central	22,150	140	19,059	140	44,660	139	38,667	140	14.9	-7
Alabama	6,848	177	5,727	177	13,294	178	11,751	177	13.1	.4
Kentucky	8,169	114	7,223	117	16,988	115	15,098	116	12.5	-1.1
Mississippi	1,084	160	907	156	1,767	163	1,633	159	8.3	2.7
Tennessee	6,049	127	5,202	128	12,611	125	10,385	127	21.4	-1.6
West South Central	32,705	145	30,628	151	63,616	146	61,291	149	3.8	-1.7
Arkansas	2,775	166	2,881	173	5,323	163	5,691	169	-6.5	-3.6
Louisiana	3,330	158	3,324	149	6,411	159	6,033	154	6.3	2.9
Oklahoma	3,710	127	3,437	122	7,924	126	7,439	125	6.5	.2
Texas	22,890	143	20,966	153	43,959	146	42,129	149	4.3	-2.2
Mountain	22,322	118	23,732	113	48,409	115	49,471	110	-2.1	4.6
Arizona	4,220	131	3,911	131	8,459	132	7,842	130	7.9	1.3
Colorado	3,699	112	3,915	112	7,834	112	7,826	110	.1	1.8
Montana	865	71	1,947	83	3,621	66	4,932	72	-26.6	-8.2
Nevada	1,466	161	1,890	153	3,277	152	3,914	144	-16.3	5.5
New Mexico	3,420	147	3,525	132	6,785	145	6,807	133	-3	9.0
Utah	3,524	121	3,022	124	7,179	120	6,307	121	13.8	-5
Wyoming	5,127	78	5,522	72	11,254	81	11,842	74	-5.0	9.5
Pacific	1,445	141	1,740	124	3,398	134	3,377	129	.6	3.7
Oregon	232	113	432	110	739	113	851	109	-13.2	3.3
Washington	1,213	147	1,308	130	2,659	140	2,526	137	5.3	2.3
U.S. Total	190,107	139	187,772	142	378,449	139	377,911	142	.1	-2.2

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	April-June 1993		April-June 1992		Year to Date					
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	1993		1992		Percent Change	
					Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	1,223	166	1,423	177	2,629	167	2,900	176	-9.3	-4.8
Connecticut	192	171	188	226	431	170	402	216	7.2	-21.5
Massachusetts	794	167	998	170	1,805	168	1,953	169	-17.8	-8
New Hampshire	237	160	237	167	592	164	544	169	8.8	-3.0
Mid Atlantic	8,388	154	9,725	157	17,868	154	19,747	162	-10.5	-5.0
New Jersey	532	177	562	173	1,110	178	1,169	174	-5.1	2.2
New York	1,028	152	1,435	157	2,181	155	2,941	159	-25.8	-3.0
Pennsylvania	6,829	152	7,728	156	14,375	152	15,637	162	-8.1	-6.0
East North Central	31,383	151	33,364	154	60,439	151	65,824	154	-8.2	-2.2
Illinois	5,449	184	5,528	178	11,197	182	11,724	177	-4.5	3.1
Indiana	7,701	133	8,696	135	15,550	133	17,795	137	-12.6	-2.5
Michigan	6,870	154	6,796	162	10,272	155	9,997	163	2.8	-5.1
Ohio	8,550	151	9,213	155	17,804	151	19,869	154	-10.4	-2.3
Wisconsin	2,813	125	3,130	137	5,617	125	6,438	143	-12.8	-12.5
West North Central	20,970	104	20,541	116	43,161	104	41,641	115	3.6	-9.5
Iowa	3,317	108	2,771	136	5,514	102	5,354	125	3.0	-17.9
Kansas	3,234	109	2,721	124	5,676	109	5,280	127	7.9	-14.1
Minnesota	2,855	118	2,965	124	7,119	117	6,656	124	7.0	-6.1
Missouri	4,390	121	5,198	134	9,411	124	9,520	138	-1.1	-9.9
Nebraska	1,561	81	1,163	80	3,646	80	2,763	79	32.0	1.0
North Dakota	5,031	71	5,178	73	10,704	72	11,032	72	-3.0	.9
South Dakota	582	109	545	116	1,091	109	1,056	118	3.3	-7.1
South Atlantic	24,888	171	24,170	175	48,172	172	48,585	176	-.8	-2.4
Delaware	583	169	264	171	1,076	170	665	174	61.8	-2.3
Florida	4,851	189	4,779	194	9,042	190	9,607	197	-5.9	-3.4
Georgia	4,606	184	4,590	187	8,961	186	9,584	187	-6.5	-1
Maryland	1,877	159	1,880	163	3,333	160	3,606	166	-7.6	-3.1
North Carolina	4,249	174	3,845	183	8,187	176	7,887	183	3.8	-3.9
South Carolina	2,025	160	1,118	159	3,850	159	2,422	159	58.9	-4
Virginia	1,623	148	1,654	149	3,288	149	3,122	150	5.3	-6
West Virginia	5,254	156	5,939	159	10,436	157	11,692	160	-10.7	-1.9
East South Central	17,274	146	17,086	143	33,637	146	34,300	143	-1.9	2.2
Alabama	5,520	189	5,323	181	10,985	189	10,605	182	3.6	3.9
Kentucky	6,104	117	6,009	119	12,085	118	12,294	119	-1.7	-7
Mississippi	731	165	714	164	1,242	168	1,327	165	-6.4	2.0
Tennessee	4,919	129	5,041	128	9,325	128	10,074	128	-7.4	.6
West South Central	30,544	144	29,806	152	59,421	146	57,908	149	2.6	-2.1
Arkansas	2,293	173	2,881	173	4,394	170	5,217	173	-15.8	-1.6
Louisiana	3,330	158	3,324	149	6,411	159	6,033	154	6.3	2.9
Oklahoma	3,630	127	3,225	124	7,709	127	7,158	126	7.7	.3
Texas	21,290	141	20,375	155	40,907	145	39,500	149	3.6	-2.9
Mountain	20,024	121	21,557	116	43,551	118	44,803	112	-2.8	5.2
Arizona	3,076	139	3,474	135	6,020	141	6,618	135	-9.0	4.1
Colorado	3,601	113	3,535	113	7,576	113	6,853	111	10.6	1.6
Montana	865	71	1,947	83	3,621	66	4,932	72	-26.6	-8.2
Nevada	1,466	161	1,890	153	3,277	152	3,914	144	-16.3	5.5
New Mexico	3,420	147	3,525	132	6,785	145	6,807	133	-3	9.0
Utah	3,057	128	2,723	126	6,227	128	5,674	123	9.7	4.0
Wyoming	4,539	81	4,464	74	10,046	83	10,005	76	.4	10.2
Pacific	999	152	1,306	130	2,143	144	2,519	137	-14.9	5.2
Washington	999	152	1,306	130	2,143	144	2,519	137	-14.9	5.2
U.S. Total	155,673	145	158,979	148	310,819	144	318,227	147	-2.3	-1.9

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	April-June 1993		April-June 1992		Year to Date					
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	1993		1992		Percent Change	
					Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	124	165	82	167	208	167	228	169	-9.0	-1.3
Connecticut	-	-	27	175	-	-	53	177	-	-
Massachusetts	96	170	55	164	170	171	145	169	17.1	1.1
New Hampshire	28	149	-	-	38	151	30	156	25.7	-3.5
Mid Atlantic	3,409	120	4,002	127	6,558	122	7,122	126	-7.9	-5.0
New Jersey	28	164	11	183	89	173	27	161	222.1	7.1
New York	636	132	1,133	139	1,595	135	2,035	140	-21.6	-4.2
Pennsylvania	2,744	116	2,859	122	4,875	116	5,059	123	-3.7	-5.3
East North Central	10,754	115	10,117	116	19,838	113	18,825	117	5.4	-3.6
Illinois	955	119	818	120	1,845	120	1,461	124	12.6	-3.1
Indiana	3,315	114	3,535	117	6,264	112	7,107	117	-11.9	-5.0
Michigan	887	139	1,301	137	1,423	137	2,317	136	-38.6	.9
Ohio	3,552	108	2,929	109	7,307	109	5,697	108	28.3	.5
Wisconsin	2,045	116	1,534	122	3,198	112	2,243	118	42.6	-5.3
West North Central	3,965	95	3,796	93	6,934	92	8,864	96	-21.8	-3.9
Iowa	1,112	91	1,210	82	2,296	93	2,391	82	-4.0	13.6
Kansas	1,208	87	863	88	2,177	87	2,079	98	4.7	-12.0
Minnesota	602	117	342	106	686	119	373	107	83.6	11.4
Missouri	235	127	820	125	323	127	2,669	118	-87.9	8.0
Nebraska	480	69	561	66	712	71	1,053	65	-32.4	9.1
North Dakota	328	112	-	-	741	75	299	44	147.8	68.5
South Atlantic	6,401	132	5,392	128	12,761	132	11,169	129	14.3	2.1
Delaware	29	164	-	-	29	164	22	174	31.4	-5.9
Florida	1,308	131	1,320	136	3,068	133	2,483	137	23.5	-2.6
Georgia	1,379	151	185	136	2,502	148	434	141	476.2	5.2
Maryland	358	146	617	148	901	148	973	149	-7.4	-7
North Carolina	874	139	242	134	1,554	141	822	137	89.1	3.4
South Carolina	382	149	870	142	779	149	1,920	142	-59.4	4.4
Virginia	600	141	600	139	1,109	141	1,395	138	-20.5	1.5
West Virginia	1,472	96	1,558	99	2,819	96	3,119	100	-9.6	-3.8
East South Central	4,876	119	1,973	113	11,023	116	4,566	115	141.4	.5
Alabama	1,328	128	404	135	2,309	125	1,146	135	101.4	-7.1
Kentucky	2,065	107	1,214	104	4,903	108	2,804	106	74.9	2.3
Mississippi	353	148	193	127	525	149	305	130	71.9	14.9
Tennessee	1,129	121	162	115	3,286	117	311	117	NM	-4
West South Central	2,161	150	822	117	4,195	148	3,383	141	24.0	4.4
Arkansas	482	128	-	-	929	129	474	126	96.0	2.1
Oklahoma	80	96	211	96	215	91	281	102	-23.5	-11.3
Texas	1,600	159	610	124	3,051	157	2,629	148	16.1	6.0
Mountain	2,298	89	2,175	86	4,858	89	4,668	89	4.1	-1
Arizona	1,144	110	437	101	2,439	108	1,224	100	99.2	8.7
Colorado	99	83	380	101	258	86	973	103	-73.5	-16.6
Utah	468	75	299	105	952	74	634	105	50.3	-29.8
Wyoming	588	58	1,058	66	1,208	60	1,837	64	-34.2	-6.0
Pacific	446	120	434	110	1,255	119	858	110	46.3	8.2
Oregon	232	113	432	110	739	113	851	109	-13.2	3.3
Washington	214	127	2	152	516	127	7	193	NM	-34.2
U.S. Total	34,434	118	28,793	117	67,630	117	59,684	118	13.3	-5

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	April-June 1993	January-March 1993	April-June 1992	Year to Date		
				1993	1992	Percent Change
New England	\$43.40	\$44.05	\$46.59	\$43.74	\$46.18	-5.3
Connecticut	44.71	44.48	58.06	44.58	55.81	-20.1
Massachusetts	43.56	43.83	44.67	43.70	44.51	-1.8
New Hampshire	41.91	44.30	44.70	43.29	44.67	-3.1
Mid Atlantic	36.24	36.96	37.41	36.61	36.50	-4.9
New Jersey	48.00	48.05	46.88	48.03	47.13	1.9
New York	37.39	38.29	38.84	37.89	39.43	-3.9
Pennsylvania	35.35	35.94	36.55	35.65	37.78	-5.6
East North Central	30.84	31.07	32.08	30.95	32.24	-4.0
Illinois	36.33	36.74	36.60	36.53	36.63	-.3
Indiana	26.99	26.55	27.74	26.77	27.89	-4.0
Michigan	32.61	35.56	34.57	33.60	35.57	-5.5
Ohio	33.42	33.45	34.58	33.44	34.52	-3.1
Wisconsin	23.07	21.90	26.49	22.54	26.60	-15.3
West North Central	17.20	17.06	19.54	17.13	19.19	-10.7
Iowa	18.01	15.93	21.66	17.11	19.70	-13.1
Kansas	17.73	17.86	20.25	17.79	21.05	-15.5
Minnesota	20.93	20.54	21.54	20.71	21.82	-5.1
Missouri	24.06	25.40	27.65	24.76	27.77	-10.8
Nebraska	13.35	13.58	12.78	13.47	12.84	4.9
North Dakota	9.67	9.40	9.54	9.53	9.36	1.8
South Dakota	13.20	13.33	14.13	13.26	14.25	-6.9
South Atlantic	40.70	40.84	41.48	40.77	41.72	-2.3
Delaware	44.21	44.59	44.76	44.38	45.41	-2.3
Florida	43.65	43.16	44.96	43.41	45.73	-5.1
Georgia	43.24	43.36	44.77	43.30	44.53	-2.8
Maryland	39.97	40.31	40.88	40.15	41.43	-3.1
North Carolina	42.04	43.07	44.74	42.53	44.60	-4.6
South Carolina	40.39	39.99	39.02	40.20	39.01	3.0
Virginia	37.50	37.63	37.52	37.56	37.45	.3
West Virginia	35.78	36.30	36.66	36.04	36.89	-2.3
East South Central	33.56	32.91	33.54	33.23	33.43	-.6
Alabama	42.96	42.86	42.99	42.91	42.85	.1
Kentucky	26.80	27.04	27.13	26.93	27.10	-.6
Mississippi	38.76	40.92	39.82	39.59	39.75	-.4
Tennessee	31.10	30.19	30.95	30.62	31.00	-1.2
West South Central	22.07	22.46	23.15	22.26	22.75	-2.2
Arkansas	28.72	27.95	30.31	28.35	29.67	-4.4
Louisiana	25.61	25.85	24.13	25.73	25.16	2.3
Oklahoma	21.86	21.58	21.47	21.71	21.96	-1.1
Texas	20.78	21.48	22.29	21.11	21.62	-2.3
Mountain	23.16	21.75	22.05	22.40	21.36	4.9
Arizona	27.05	26.72	27.19	26.86	26.76	.5
Colorado	22.27	21.71	22.17	21.97	21.88	1.4
Montana	12.02	11.02	14.20	11.26	12.42	-9.3
Nevada	36.04	31.55	33.89	33.56	31.80	5.5
New Mexico	26.27	25.76	23.76	26.02	23.99	8.4
Utah	27.76	27.51	27.99	27.63	27.54	.3
Wyoming	13.57	14.62	12.69	14.14	13.03	8.5
Pacific	23.19	21.52	20.65	22.23	21.43	3.8
Oregon	19.78	20.40	20.91	20.21	20.98	-3.7
Washington	23.84	21.92	20.61	22.80	21.58	5.6
U.S. Total	28.94	28.65	29.76	28.80	29.62	-2.8

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-June 1993

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	2,663	258	5,668	180	318	141	8,648	203	1.00	5.2	2.4	0.2
Arizona	5,316	117	-	-	-	-	5,316	117	.46	-14.0	4.9	-1.7
Colorado	7,954	140	161	95	-	-	8,114	139	.40	4.1	-2	4.1
Illinois	-	-	5,913	147	18,194	151	24,107	150	2.22	-12.5	-5.0	-3.9
Indiana	287	132	1,137	118	10,147	121	11,571	121	2.24	-11.5	-2.7	1.8
Iowa	-	-	-	-	12	172	12	172	2.91	-67.6	2.6	-36.4
Kansas	-	-	-	-	153	130	153	130	2.90	-3.7	.7	.1
Kentucky	7,311	158	32,256	155	17,776	121	57,343	146	1.38	2.1	-1.6	-4.7
Louisiana	-	-	1,480	141	-	-	1,480	141	.84	-6	2.1	-6.6
Maryland	-	-	1,238	143	12	111	1,251	143	1.32	-21.4	6.3	-2.4
Missouri	-	-	-	-	210	266	210	266	3.94	-84.4	78.1	-1.1
Montana	7,103	170	7,270	97	-	-	14,373	135	.58	-8.9	-2	-1.9
New Mexico	4,361	143	8,323	149	-	-	12,685	147	.69	15.5	4.3	-7.8
North Dakota	-	-	12,347	76	184	75	12,531	76	1.13	1.2	1.1	-24.0
Ohio	2	138	743	118	13,307	140	14,053	139	2.82	-5.7	-1.3	-2.0
Oklahoma	1	27	1	23	35	110	37	107	2.73	-77.8	-9.1	28.1
Pennsylvania	692	162	15,112	142	7,300	128	23,104	138	1.52	-6.6	-8.6	4.2
Tennessee	85	135	848	140	144	110	1,077	136	1.14	-20.9	3.7	3.2
Texas	-	-	14,416	111	11,081	131	25,497	120	1.70	3.4	.4	-1
Utah	7,396	119	-	-	-	-	7,396	119	.40	9.9	-9	3.2
Virginia	2,200	169	5,930	161	40	121	8,170	163	.81	-3.3	-9	-5.1
Washington	19	127	2,164	144	-	-	2,183	143	.94	-13.4	4.8	11.2
West Virginia	12,936	168	18,738	150	9,667	140	41,341	153	1.18	-1.9	-2.8	-9.9
Wyoming	90,841	127	5,696	95	-	-	96,537	125	.42	8.9	-2.2	-3.2
Imported	1,052	153	207	132	-	-	1,259	149	.54	55.4	-5.3	-11.5
Total	150,219	140	139,649	141	88,581	134	378,449	139	1.18	.1	-2.2	-6.9

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-June 1993, 1992**

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)	
	1993	1992	1993	1992	1993	1992	1993	1992
Alabama	13,294	11,751	82.6	90.2	1.11	1.17	178	177
Alabama	8,648	8,151	88.9	88.3	1.00	.98	203	199
Illinois	633	291	90.8	100.0	1.75	1.59	125	123
Indiana	10	-	-	-	3.12	-	102	-
Kentucky	2,341	1,487	53.3	98.3	1.60	2.55	124	116
Ohio	5	-	-	-	2.97	-	90	-
Pennsylvania	46	-	-	-	1.68	-	118	-
Tennessee	246	404	92.4	100.0	.80	.63	128	132
West Virginia	1,364	1,438	91.2	99.5	.70	.87	146	139
Arizona	6,459	7,842	71.2	84.4	.49	.50	132	130
Arizona	3,315	3,550	100.0	100.0	.47	.47	109	105
Colorado	-	119	-	100.0	-	.34	-	166
New Mexico	5,144	4,173	52.6	70.7	.50	.53	148	153
Arkansas	5,323	5,691	82.5	91.7	.36	.36	163	169
Wyoming	5,323	5,691	82.5	91.7	.36	.36	163	169
Colorado	7,834	7,826	96.7	87.6	.39	.38	112	110
Colorado	5,035	5,145	94.9	81.1	.39	.37	115	113
Wyoming	2,799	2,681	100.0	100.0	.38	.39	104	103
Connecticut	431	455	100.0	88.4	.43	.42	170	212
Kentucky	356	455	100.0	88.4	.42	.42	170	212
West Virginia	75	-	100.0	-	.50	-	169	-
Delaware	1,105	687	97.4	96.8	.73	.79	170	174
Pennsylvania	95	83	100.0	73.5	1.05	1.07	168	178
Virginia	118	-	100.0	-	.66	-	206	-
West Virginia	892	603	96.8	100.0	.71	.76	165	174
Florida	12,110	12,090	74.7	79.5	1.37	1.36	176	185
Alabama	-	72	-	-	-	2.28	-	121
Colorado	-	65	-	-	-	.35	-	138
Illinois	3,404	2,654	60.4	78.4	2.24	2.34	175	199
Indiana	45	-	-	-	3.12	-	159	-
Kentucky	6,021	7,351	86.7	77.9	1.14	1.17	180	179
Tennessee	142	111	100.0	100.0	.83	.90	206	218
Utah	187	32	-	-	.31	.34	152	164
Virginia	423	441	97.8	100.0	.58	.58	212	231
West Virginia	903	744	68.4	99.1	1.21	1.11	167	202
Wyoming	-	12	-	-	-	.23	-	142
Imported coal Colombia	920	609	64.6	83.6	.58	.61	138	154
Imported coal Venezuela	66	-	-	-	.41	-	221	-
Georgia	11,463	10,018	78.2	95.7	1.21	1.45	178	185
Illinois	2,250	2,497	97.3	100.0	2.43	2.47	207	210
Indiana	153	226	100.0	100.0	2.25	2.30	137	137
Kentucky	5,944	5,247	73.8	92.7	1.00	1.21	160	166
Virginia	1,384	1,278	93.8	99.8	1.01	1.04	183	182
West Virginia	1,732	771	54.0	93.6	.55	.55	204	253
Illinois	12,842	13,186	87.2	88.9	1.68	1.84	174	171
Colorado	428	225	-	-	.40	.39	131	139
Illinois	7,108	7,913	87.8	92.8	2.58	2.64	137	140
Indiana	288	468	63.0	67.6	1.32	1.55	133	136
Kentucky	577	598	79.6	74.7	.50	.51	162	168
Montana	1,480	1,469	100.0	100.0	.42	.36	264	286
Utah	73	155	-	-	.35	.37	129	117
West Virginia	169	298	67.5	65.0	.55	.59	157	152
Wyoming	2,719	2,059	100.0	95.1	.32	.47	260	252
Indiana	21,814	24,902	71.3	71.5	1.66	1.76	127	131
Colorado	498	273	79.9	-	.37	.37	148	160
Illinois	3,009	5,049	81.6	89.3	1.89	2.35	149	158
Indiana	9,520	10,023	64.3	65.1	2.23	2.22	118	119
Kentucky	2,012	2,425	87.5	75.6	2.38	2.16	119	120
Montana	317	271	100.0	100.0	.41	.35	255	279
Ohio	14	14	-	-	2.17	2.68	146	128
Pennsylvania	14	-	-	-	1.97	-	130	-
Virginia	46	57	-	-	.55	.54	157	161
West Virginia	346	989	17.8	4.0	.53	.57	152	136
Wyoming	6,028	5,800	73.7	79.6	.39	.40	121	122
Imported coal Indonesia	8	-	-	-	.14	-	101	-
Iowa	7,810	7,745	70.8	69.1	.57	.71	100	112
Illinois	230	613	89.2	100.0	2.02	2.34	139	175
Indiana	134	201	78.9	95.4	2.19	2.28	137	128
Iowa	12	37	100.0	100.0	2.91	4.58	172	168

See footnotes at end of table.

**Table 36. Destination of Coal Received at Electric Utility Plants by Origin,
January-June 1993, 1992 (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)	
	1993	1992	1993	1992	1993	1992	1993	1992
Iowa								
Kentucky	-	2	-	-	-	2.99	-	104
Wyoming	7,433	6,893	69.9	65.5	0.47	.43	97	103
Kansas	7,854	7,340	72.3	71.7	.49	.58	103	118
Colorado	29	55	100.0	38.2	.37	.55	122	115
Illinois	204	533	14.2	24.1	2.49	2.14	152	147
Kansas	47	44	100.0	100.0	2.55	2.56	120	121
Missouri	7	38	-	-	4.99	3.01	111	118
Wyoming	7,566	6,670	73.6	76.0	.40	.38	101	115
Kentucky	16,988	15,098	71.1	81.4	2.08	2.13	115	116
Colorado	54	-	-	-	.56	-	133	-
Illinois	216	-	-	-	2.37	-	111	-
Indiana	587	1,090	41.9	57.3	2.42	2.51	97	100
Kentucky	13,356	12,310	77.4	83.3	2.27	2.26	114	116
Ohio	198	78	80.9	97.8	2.14	2.31	171	182
Pennsylvania	124	8	-	-	1.81	2.09	104	101
Tennessee	170	308	-	95.0	2.07	1.99	111	113
West Virginia	2,250	1,305	59.7	79.9	.73	.69	124	126
Wyoming	34	-	-	-	.63	-	119	-
Louisiana	6,411	6,033	100.0	100.0	.59	.61	159	154
Louisiana	1,480	1,489	100.0	100.0	.84	.90	141	138
Wyoming	4,931	4,544	100.0	100.0	.53	.53	183	159
Maryland	4,234	4,579	78.7	78.7	1.03	1.03	158	162
Kentucky	349	136	72.5	76.5	.55	.58	156	155
Maryland	464	426	77.6	77.8	1.23	1.24	172	174
Pennsylvania	1,208	1,550	87.0	76.6	1.44	1.47	169	171
Virginia	7	78	-	-	.56	.57	161	170
West Virginia	2,207	2,390	75.7	83.0	.84	.76	149	154
Massachusetts	1,775	2,099	90.4	93.1	.87	.91	168	169
Kentucky	76	-	-	-	.47	.57	178	176
Pennsylvania	166	187	100.0	76.0	1.15	1.04	167	167
Virginia	-	430	-	100.0	-	.80	-	177
West Virginia	1,404	1,345	93.3	95.0	.89	.96	167	167
Imported coal Canada	-	33	-	-	-	1.03	-	175
Imported coal Colombia	40	-	100.0	-	.52	-	186	-
Imported coal Venezuela	88	104	100.0	100.0	.51	.55	174	167
Michigan	11,696	12,314	87.8	81.2	.64	.64	153	158
Indiana	72	84	100.0	14.3	1.97	2.29	162	145
Kentucky	2,875	3,086	86.5	90.5	.74	.74	171	175
Montana	3,425	3,553	100.0	100.0	.41	.38	152	153
Ohio	111	7	100.0	100.0	2.61	2.76	213	222
Pennsylvania	673	799	100.0	83.0	1.25	1.22	154	155
West Virginia	2,374	3,170	73.0	66.0	.66	.68	156	164
Wyoming	2,166	1,616	81.7	54.4	.30	.33	109	111
Minnesota	7,804	7,029	91.2	94.7	.47	.52	117	123
Illinois	22	20	14.7	100.0	1.36	1.79	171	160
Indiana	-	-	-	100.0	-	1.11	-	90
Montana	3,740	3,816	94.6	95.8	.67	.69	117	123
Pennsylvania	-	1	-	100.0	-	1.36	-	146
West Virginia	6	-	100.0	-	.56	-	159	-
Wyoming	4,036	3,192	88.5	93.4	.29	.30	117	123
Mississippi	1,767	1,633	70.3	81.3	1.12	1.35	163	159
Colorado	33	-	-	-	.36	-	158	-
Illinois	569	625	87.5	83.1	2.10	2.16	134	132
Kentucky	920	926	81.0	87.3	.69	.87	181	178
Montana	178	82	-	-	.42	.32	159	136
Imported coal Indonesia	68	-	-	-	.08	-	169	-
Missouri	9,734	12,189	96.7	78.1	1.27	1.77	124	134
Colorado	248	284	75.4	96.8	.40	.42	155	160
Illinois	3,373	5,595	97.0	89.4	2.09	2.09	153	154
Indiana	435	-	100.0	-	2.81	-	122	-
Kansas	106	115	100.0	44.9	3.07	3.03	134	132
Kentucky	83	475	100.0	95.5	2.07	2.91	143	125
Missouri	203	1,307	85.7	97.6	3.91	4.02	271	149
Utah	-	79	-	-	-	.35	-	141
Wyoming	5,286	4,332	97.5	56.8	.32	.34	92	92
Montana	3,621	4,932	100.0	100.0	.77	.78	66	72
Montana	3,621	4,932	100.0	100.0	.77	.78	66	72

See footnotes at end of table.

**Table 36. Destination of Coal Received at Electric Utility Plants by Origin,
January-June 1993, 1992 (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)	
	1993	1992	1993	1992	1993	1992	1993	1992
Nebraska	4,358	3,816	83.7	72.4	0.41	0.43	78	75
Colorado	-	-	-	-	-	.35	-	159
Oklahoma	2	-	-	-	.50	-	26	-
Wyoming	4,356	3,815	83.7	72.4	.41	.43	78	75
Nevada	3,277	3,914	100.0	100.0	.44	.46	152	144
Arizona	2,000	2,632	100.0	100.0	.45	.48	129	120
Colorado	202	41	100.0	100.0	.46	.40	215	221
Utah	766	909	100.0	100.0	.39	.39	176	189
Wyoming	308	332	100.0	100.0	.49	.54	200	200
New Hampshire	630	574	94.0	94.8	1.25	1.16	163	169
Pennsylvania	335	311	97.4	100.0	1.24	1.15	169	171
West Virginia	243	205	88.1	100.0	1.41	1.34	159	166
Imported coal Colombia	25	30	100.0	-	.54	.52	151	156
Imported coal Venezuela	27	28	100.0	100.0	.51	.44	139	172
New Jersey	1,198	1,197	92.6	97.7	.85	.92	178	174
Kentucky	76	83	100.0	89.7	.63	.61	186	179
Pennsylvania	8	-	-	-	1.97	-	152	-
Virginia	541	561	97.5	98.1	.56	.59	179	177
West Virginia	573	552	88.3	98.5	1.15	1.33	175	170
New Mexico	6,785	6,807	100.0	100.0	.89	.90	145	133
New Mexico	6,785	6,807	100.0	100.0	.89	.90	145	133
New York	3,776	4,976	57.8	59.1	1.26	1.28	146	152
Kentucky	135	206	100.0	71.2	.42	.44	211	209
Maryland	-	11	-	-	-	1.39	-	140
Pennsylvania	2,755	3,238	57.0	54.6	1.35	1.33	139	146
West Virginia	886	1,522	53.8	67.4	1.14	1.27	160	157
North Carolina	9,741	8,709	84.0	90.6	.76	.74	171	179
Kentucky	4,549	3,974	84.9	89.3	.79	.74	173	183
Tennessee	1	3	-	-	.90	1.01	148	147
Virginia	2,212	2,121	97.7	98.6	.81	.85	169	175
West Virginia	2,979	2,611	72.7	86.1	.66	.64	168	176
North Dakota	11,445	11,331	93.5	97.4	1.09	1.48	73	71
North Dakota	11,440	11,331	93.6	97.4	1.09	1.48	73	71
Wyoming	5	-	-	-	.74	-	71	-
Ohio	25,111	25,566	70.9	77.7	2.04	2.18	138	144
Indiana	-	73	-	-	-	3.04	-	90
Kentucky	3,474	3,971	73.5	84.7	.83	1.00	152	143
Ohio	12,832	13,942	79.9	82.5	2.83	2.87	138	143
Pennsylvania	1,966	1,344	18.7	63.3	1.65	1.65	109	132
Virginia	40	-	-	-	.53	-	155	-
West Virginia	6,799	6,200	68.0	79.8	1.34	1.53	141	152
Wyoming	-	36	-	-	-	.37	-	124
Oklahoma	7,924	7,439	97.3	96.2	.44	.50	126	125
Oklahoma	35	164	100.0	74.5	2.81	2.13	110	118
Wyoming	7,889	7,274	97.3	96.7	.42	.44	126	125
Oregon	739	851	-	-	.43	.40	113	109
Montana	355	851	-	-	.43	.40	113	109
Wyoming	384	-	-	-	.44	-	113	-
Pennsylvania	19,250	20,696	74.7	75.6	1.67	1.71	143	152
Ohio	524	213	93.4	79.6	2.53	2.77	166	153
Pennsylvania	14,632	15,634	68.2	69.4	1.54	1.50	139	152
West Virginia	4,093	4,849	95.4	95.2	2.02	2.32	156	154
South Carolina	4,629	4,342	83.2	55.8	.89	.87	157	152
Kentucky	4,144	3,937	81.9	51.2	.89	.85	158	151
Virginia	477	383	95.4	100.0	.90	1.07	153	156
West Virginia	8	22	-	100.0	.76	.73	156	183
South Dakota	1,091	1,056	100.0	100.0	1.48	1.48	109	118
North Dakota	1,091	1,056	100.0	100.0	1.48	1.48	109	118
Tennessee	12,611	10,385	73.9	97.0	1.64	1.68	125	127
Colorado	20	-	-	-	.49	-	64	-
Illinois	2,879	1,127	44.4	95.2	1.92	1.67	121	126
Kentucky	8,163	7,804	84.5	97.9	1.64	1.79	127	128
Pennsylvania	11	-	41.1	-	1.67	-	119	-
Tennessee	519	536	87.3	95.1	1.09	1.01	128	121
Virginia	747	846	92.2	100.0	1.02	1.20	123	128
West Virginia	270	-	2.4	-	1.53	-	130	-
Wyoming	-	71	-	-	-	.58	-	132
Texas	43,959	42,129	93.1	93.8	1.04	1.06	146	149
Colorado	748	836	78.7	74.8	.37	.34	212	209

See footnotes at end of table.

**Table 36. Destination of Coal Received at Electric Utility Plants by Origin,
January-June 1993, 1992 (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)	
	1993	1992	1993	1992	1993	1992	1993	1992
Texas								
Texas	25,497	24,849	100.0	99.3	1.70	1.70	120	119
Wyoming	17,713	16,844	83.7	86.6	.39	.41	170	178
Utah	7,179	6,307	86.7	90.0	.41	.40	120	121
Colorado	808	751	100.0	100.0	.42	.45	197	223
Utah	6,370	5,556	85.1	88.6	.41	.39	111	108
Virginia	4,397	4,517	74.8	69.1	.76	.80	147	146
Kentucky	1,597	1,243	57.7	70.7	.78	.88	146	150
Virginia	2,113	2,229	85.1	74.5	.72	.73	143	141
West Virginia	688	1,045	82.7	55.8	.86	.87	160	153
Washington	2,659	2,526	80.6	99.7	.84	.85	140	137
Montana	459	-	-	-	.44	-	125	-
Washington	2,183	2,521	98.2	99.9	.94	.85	143	137
Imported coal Canada	17	5	-	-	.49	.42	181	215
West Virginia	13,254	14,811	78.7	78.9	1.54	1.64	144	147
Kentucky	265	281	97.2	91.6	.75	.71	184	179
Maryland	787	1,155	82.8	66.5	1.38	1.40	125	119
Ohio	368	642	-	-	3.22	3.10	85	92
Pennsylvania	859	642	28.8	39.4	2.13	2.04	106	113
West Virginia	10,976	12,091	84.6	86.1	1.47	1.59	149	154
Wisconsin	8,815	8,681	63.7	74.2	.52	.81	120	136
Colorado	10	-	-	-	.44	-	157	-
Illinois	210	646	1.4	40.7	.92	1.26	131	145
Indiana	329	913	99.7	92.2	1.97	1.81	193	196
Kentucky	29	206	-	-	.64	1.06	173	139
Montana	798	808	71.5	91.8	.72	.80	144	160
New Mexico	756	-	98.1	-	.40	-	154	-
Pennsylvania	212	935	92.0	100.0	1.22	1.14	164	154
Virginia	62	22	-	-	.53	.51	168	161
West Virginia	102	-	55.9	-	.51	-	179	-
Wyoming	6,307	5,151	59.0	71.0	.36	.39	101	112
Wyoming	11,254	11,842	89.3	84.5	.58	.58	81	74
Wyoming	11,254	11,842	89.3	84.5	.58	.58	81	74
U.S. Total	378,449	377,911	82.1	84.2	1.18	1.27	139	142

* 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-June 1993, 1992**

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)	
	1993	1992	1993	1992	1993	1992	1993	1992
Alabama	8,648	8,223	88.9	85.6	1.00	1.00	203	198
Alabama	8,648	8,151	88.9	86.3	1.00	.98	203	199
Florida	-	72	-	-	-	2.28	-	121
Arizona	5,316	6,182	100.0	100.0	.46	.47	117	111
Arizona	3,315	3,550	100.0	100.0	.47	.47	109	105
Nevada	2,000	2,632	100.0	100.0	.45	.48	129	120
Colorado	8,114	7,795	86.2	77.0	.40	.38	139	140
Arizona	-	119	-	100.0	-	.34	-	168
Colorado	5,035	5,145	94.9	81.1	.39	.37	115	113
Florida	-	65	-	-	-	.35	-	138
Illinois	428	225	-	-	.40	.39	131	139
Indiana	498	273	79.9	-	.37	.37	148	160
Kansas	29	55	100.0	38.2	.37	.55	122	115
Kentucky	54	-	-	-	.56	-	133	-
Mississippi	33	-	-	-	.36	-	158	-
Missouri	248	284	75.4	96.8	.40	.42	155	160
Nebraska	-	-	-	-	-	.35	-	159
Nevada	202	41	100.0	100.0	.46	.40	215	221
Tennessee	20	-	-	-	.49	-	64	-
Texas	748	836	78.7	74.8	.37	.34	212	209
Utah	808	751	100.0	100.0	.42	.45	197	223
Wisconsin	10	-	-	-	.44	-	157	-
Illinois	24,107	27,562	78.0	88.3	2.22	2.32	150	158
Alabama	633	291	90.8	100.0	1.75	1.59	125	123
Florida	3,404	2,654	60.4	78.4	2.24	2.34	175	199
Georgia	2,250	2,497	97.3	100.0	2.43	2.47	207	210
Illinois	7,108	7,913	87.8	92.8	2.58	2.64	137	140
Indiana	3,009	5,049	81.6	89.3	1.89	2.35	149	158
Iowa	230	613	89.2	100.0	2.02	2.34	139	175
Kansas	204	533	14.2	24.1	2.49	2.14	152	147
Kentucky	216	-	-	-	2.37	-	111	-
Minnesota	22	20	14.7	100.0	1.36	1.79	171	160
Mississippi	569	625	87.5	83.1	2.10	2.16	134	132
Missouri	3,373	5,595	97.0	89.4	2.09	2.09	153	154
Tennessee	2,879	1,127	44.4	95.2	1.92	1.67	121	126
Wisconsin	210	646	1.4	40.7	.92	1.26	131	145
Indiana	11,571	13,078	66.0	66.8	2.24	2.20	121	124
Alabama	10	-	-	-	3.12	-	102	-
Florida	45	-	-	-	3.12	-	159	-
Georgia	153	226	100.0	100.0	2.25	2.30	137	137
Illinois	288	468	63.0	67.6	1.32	1.55	133	136
Indiana	9,520	10,023	64.3	65.1	2.23	2.22	118	119
Iowa	134	201	76.9	95.4	2.19	2.28	137	128
Kentucky	587	1,090	41.9	57.3	2.42	2.51	97	100
Michigan	72	84	100.0	14.3	1.97	2.29	162	145
Minnesota	-	-	-	100.0	-	1.11	-	90
Missouri	435	-	100.0	-	2.81	-	122	-
Ohio	-	73	-	-	-	3.04	-	90
Wisconsin	329	913	99.7	92.2	1.97	1.81	193	196
Iowa	12	37	100.0	100.0	2.91	4.58	172	168
Iowa	12	37	100.0	100.0	2.91	4.58	172	168
Kansas	153	159	100.0	60.1	2.90	2.90	130	129
Kansas	47	44	100.0	100.0	2.55	2.56	120	121
Missouri	106	115	100.0	44.9	3.07	3.03	134	132
Kentucky	57,343	56,183	79.2	82.4	1.38	1.45	146	148
Alabama	2,341	1,467	53.3	98.3	1.60	2.55	124	116
Connecticut	356	455	100.0	88.4	.42	.42	170	212
Florida	6,021	7,351	66.7	77.9	1.14	1.17	180	179
Georgia	5,944	5,247	73.8	92.7	1.00	1.21	160	166
Illinois	577	598	78.6	74.7	.50	.51	162	168
Indiana	2,012	2,425	87.5	75.6	2.38	2.16	119	120
Iowa	-	2	-	-	-	2.99	-	104
Kentucky	13,356	12,310	77.4	83.3	2.27	2.26	114	116
Maryland	349	136	72.5	76.5	.55	.58	156	155
Massachusetts	76	-	-	-	.47	.57	178	176
Michigan	2,875	3,086	86.5	90.5	.74	.74	171	175
Mississippi	920	928	81.0	87.3	.69	.87	181	178
Missouri	83	475	100.0	95.5	2.07	2.91	143	125
New Jersey	76	83	100.0	89.7	.63	.61	186	179

See footnotes at end of table.

**Table 37. Origin of Coal Received at Electric Utility Plants by Destination,
January-June 1993, 1992 (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)	
	1993	1992	1993	1992	1993	1992	1993	1992
Kentucky								
New York	135	206	100.0	71.2	0.42	0.44	211	209
North Carolina	4,549	3,974	84.9	89.3	.79	.74	173	183
Ohio	3,474	3,971	73.5	64.7	.83	1.00	152	143
South Carolina	4,144	3,937	81.9	51.2	.89	.85	158	151
Tennessee	8,163	7,804	84.5	97.9	1.84	1.79	127	128
Virginia	1,597	1,243	57.7	70.7	.78	.88	146	150
West Virginia	265	281	97.2	91.6	.75	.71	184	179
Wisconsin	29	206	-	-	.64	1.06	173	139
Louisiana	1,480	1,489	100.0	100.0	.84	.90	141	138
Louisiana	1,480	1,489	100.0	100.0	.84	.90	141	138
Maryland	1,251	1,592	80.9	69.1	1.32	1.36	143	135
Maryland	464	426	77.6	77.8	1.23	1.24	172	174
New York	-	11	-	-	-	1.39	-	140
West Virginia	787	1,155	82.8	66.5	1.38	1.40	125	119
Missouri	210	1,345	82.9	94.8	3.94	3.99	266	148
Kansas	7	38	-	-	4.99	3.01	111	118
Missouri	203	1,307	85.7	97.6	3.91	4.02	271	149
Montana	14,373	15,783	90.1	92.6	.58	.59	135	135
Illinois	1,480	1,469	100.0	100.0	.42	.36	264	286
Indiana	317	271	100.0	100.0	.41	.35	255	279
Michigan	3,425	3,553	100.0	100.0	.41	.38	152	153
Minnesota	3,740	3,816	94.6	95.8	.67	.69	117	123
Mississippi	178	82	-	-	.42	.32	159	136
Montana	3,621	4,932	100.0	100.0	.77	.78	66	72
Oregon	355	851	-	-	.43	.40	113	109
Washington	459	-	-	-	.44	-	125	-
Wisconsin	798	808	71.5	91.8	.72	.80	144	160
New Mexico	12,685	10,979	80.7	88.8	.69	.75	147	141
Arizona	5,144	4,173	52.6	70.7	.50	.53	148	153
New Mexico	6,785	6,807	100.0	100.0	.89	.90	145	133
Wisconsin	756	-	98.1	-	.40	-	154	-
North Dakota	12,531	12,387	94.1	97.6	1.13	1.48	76	75
North Dakota	11,440	11,331	93.6	97.4	1.09	1.48	73	71
South Dakota	1,091	1,056	100.0	100.0	1.48	1.48	109	118
Ohio	14,053	14,894	78.4	78.9	2.82	2.88	139	141
Alabama	5	-	-	-	2.97	-	80	-
Indiana	14	14	-	-	2.17	2.68	146	128
Kentucky	198	76	80.9	97.8	2.14	2.31	171	182
Michigan	111	7	100.0	100.0	2.61	2.76	213	222
Ohio	12,832	13,942	79.9	82.5	2.83	2.87	138	143
Pennsylvania	524	213	93.4	79.6	2.53	2.77	166	153
West Virginia	368	642	-	-	3.22	3.10	85	92
Oklahoma	37	164	95.1	74.5	2.73	2.13	107	118
Nebraska	2	-	-	-	.50	-	26	-
Oklahoma	35	164	100.0	74.5	2.81	2.13	110	118
Pennsylvania	23,104	24,730	63.5	68.8	1.52	1.46	138	151
Alabama	46	-	-	-	1.68	-	118	-
Delaware	95	83	100.0	73.5	1.05	1.07	168	178
Indiana	14	-	-	-	1.97	-	130	-
Kentucky	124	8	-	-	1.81	2.09	104	101
Maryland	1,208	1,550	87.0	76.6	1.44	1.47	169	171
Massachusetts	166	187	100.0	76.0	1.15	1.04	167	167
Michigan	673	799	100.0	83.0	1.25	1.22	154	155
Minnesota	-	1	-	100.0	-	1.36	-	146
New Hampshire	335	311	97.4	100.0	1.24	1.15	169	171
New Jersey	8	-	-	-	1.97	-	152	-
New York	2,755	3,238	57.0	54.6	1.35	1.33	139	146
Ohio	1,966	1,344	18.7	63.3	1.65	1.65	109	132
Pennsylvania	14,632	15,634	68.2	69.4	1.54	1.50	139	152
Tennessee	11	-	41.1	-	1.67	-	119	-
West Virginia	859	642	28.8	39.4	2.13	2.04	106	113
Wisconsin	212	935	92.0	100.0	1.22	1.14	164	154
Tennessee	1,077	1,361	76.3	96.7	1.14	1.11	136	131
Alabama	246	404	92.4	100.0	.80	.63	128	132
Florida	142	111	100.0	100.0	.83	.90	206	218
Kentucky	170	308	-	95.0	2.07	1.99	111	113
North Carolina	1	3	-	-	.90	1.01	148	147
Tennessee	519	536	87.3	95.1	1.09	1.01	128	121

See footnotes at end of table.

**Table 37. Origin of Coal Received at Electric Utility Plants by Destination,
January-June 1993, 1992 (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)	
	1993	1992	1993	1992	1993	1992	1993	1992
Texas	25,497	24,849	100.0	99.3	1.70	1.70	120	119
Texas	25,497	24,849	100.0	99.3	1.70	1.70	120	119
Utah	7,396	6,731	83.6	86.6	.40	.39	119	120
Utah	7,396	6,731	83.6	86.6	.40	.39	119	120
Florida	187	32	-	-	.31	.34	152	164
Illinois	73	155	-	-	.35	.37	129	117
Missouri	-	79	-	-	-	.35	-	141
Nevada	766	909	100.0	100.0	.39	.39	176	189
Utah	6,370	5,556	85.1	88.6	.41	.39	111	108
Virginia	8,170	8,446	91.3	90.9	.81	.85	163	164
Virginia	8,170	8,446	91.3	90.9	.81	.85	163	164
Delaware	118	-	100.0	-	.66	-	206	-
Florida	423	441	97.8	100.0	.58	.58	212	231
Georgia	1,384	1,278	93.8	99.8	1.01	1.04	183	182
Indiana	46	57	-	-	.55	.54	157	161
Maryland	7	78	-	-	.56	.57	161	170
Massachusetts	-	430	-	100.0	-	.80	-	177
New Jersey	541	561	97.5	98.1	.56	.59	179	177
North Carolina	2,212	2,121	97.7	98.6	.81	.85	169	175
Ohio	40	-	-	-	.53	-	155	-
South Carolina	477	383	95.4	100.0	.90	1.07	153	156
Tennessee	747	846	92.2	100.0	1.02	1.20	123	128
Virginia	2,113	2,229	85.1	74.5	.72	.73	143	141
Wisconsin	62	22	-	-	.53	.51	168	161
Washington	2,183	2,521	98.2	99.9	.94	.85	143	137
Washington	2,183	2,521	98.2	99.9	.94	.85	143	137
West Virginia	41,341	42,152	76.9	82.4	1.18	1.31	153	158
West Virginia	41,341	42,152	76.9	82.4	1.18	1.31	153	158
Alabama	1,364	1,438	91.2	99.5	.70	.87	146	139
Connecticut	75	-	100.0	-	.50	-	169	-
Delaware	892	603	96.8	100.0	.71	.76	165	174
Florida	903	744	68.4	99.1	1.21	1.11	167	202
Georgia	1,732	771	54.0	93.6	.55	.55	204	253
Illinois	169	298	67.5	65.0	.55	.59	157	152
Indiana	346	989	17.8	4.0	.53	.57	152	136
Kentucky	2,250	1,305	59.7	79.9	.73	.69	124	126
Maryland	2,207	2,390	75.7	83.0	.84	.76	149	154
Massachusetts	1,404	1,345	93.3	95.0	.89	.96	167	167
Michigan	2,374	3,170	73.0	66.0	.66	.68	156	164
Minnesota	6	-	100.0	-	.56	-	159	-
New Hampshire	243	205	88.1	100.0	1.41	1.34	159	166
New Jersey	573	552	88.3	98.5	1.15	1.33	175	170
New York	886	1,522	53.8	67.4	1.14	1.27	160	157
North Carolina	2,979	2,611	72.7	86.1	.66	.64	168	176
Ohio	6,799	6,200	68.0	79.8	1.34	1.53	141	152
Pennsylvania	4,093	4,849	95.4	95.2	2.02	2.32	156	154
South Carolina	8	22	-	100.0	.76	.73	156	183
Tennessee	270	-	2.4	-	1.53	-	130	-
Virginia	688	1,045	82.7	55.8	.86	.87	160	153
West Virginia	10,976	12,091	84.6	86.1	1.47	1.59	149	154
Wisconsin	102	-	55.9	-	.51	-	179	-
Wyoming	96,537	88,658	83.7	82.5	.42	.43	125	128
Wyoming	96,537	88,658	83.7	82.5	.42	.43	125	128
Arkansas	5,323	5,691	82.5	91.7	.36	.36	163	169
Colorado	2,799	2,681	100.0	100.0	.38	.39	104	103
Florida	-	12	-	-	-	.23	-	142
Illinois	2,719	2,059	100.0	95.1	.32	.47	260	252
Indiana	6,028	5,800	73.7	79.6	.39	.40	121	122
Iowa	7,433	6,893	69.9	65.5	.47	.43	97	103
Kansas	7,566	6,670	73.6	76.0	.40	.38	101	115
Kentucky	34	-	-	-	.63	-	119	-
Louisiana	4,931	4,544	100.0	100.0	.53	.53	163	159
Michigan	2,166	1,616	81.7	54.4	.30	.33	109	111
Minnesota	4,036	3,192	88.5	93.4	.29	.30	117	123
Missouri	5,286	4,332	97.5	56.8	.32	.34	92	92
Nebraska	4,356	3,815	83.7	72.4	.41	.43	78	75
Nevada	308	332	100.0	100.0	.49	.54	200	200
North Dakota	5	-	-	-	.74	-	71	-
Ohio	-	36	-	-	-	.37	-	124
Oklahoma	7,889	7,274	97.3	96.7	.42	.44	126	125
Oregon	384	-	-	-	.44	-	113	-
Tennessee	-	71	-	-	-	.58	-	132
Texas	17,713	16,644	83.7	86.6	.39	.41	170	178

See footnotes at end of table.

Table 37. Origin of Coal Received at Electric Utility Plants by Destination, January-June 1993, 1992 (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)	
	1993	1992	1993	1992	1993	1992	1993	1992
Wyoming								
Wisconsin	6,307	5,151	59.0	71.0	0.36	0.39	101	112
Wyoming	11,254	11,842	89.3	84.5	.58	.58	81	74
Imported Coal	1,259	810	61.5	79.3	.54	.61	149	158
Canada	17	38	-	-	.49	.97	181	179
Massachusetts	-	33	-	-	-	1.03	-	175
Washington	17	5	-	-	.49	.42	181	215
Colombia	985	639	66.9	79.7	.58	.60	141	154
Florida	920	609	84.6	83.6	.58	.61	138	154
Massachusetts	40	-	100.0	-	.52	-	186	-
New Hampshire	25	30	100.0	-	.54	.52	151	156
Venezuela	181	133	63.5	100.0	.48	.53	186	168
Florida	66	-	-	-	.41	-	221	-
Massachusetts	88	104	100.0	100.0	.51	.55	174	167
New Hampshire	27	28	100.0	100.0	.51	.44	139	172
Indonesia	76	-	-	-	.09	-	182	-
Indiana	8	-	-	-	.14	-	101	-
Mississippi	68	-	-	-	.08	-	189	-
U.S. Total	378,449	377,911	82.1	84.2	1.18	1.27	139	142

* 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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
By State						
Alabama	857	856	787	1,712	1,685	1.6
Illinois	w	w	w	w	w	w
Indiana	1,883	1,790	1,867	3,674	3,757	-2.2
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	677	720	939	1,397	1,945	-28.2
Pennsylvania	2,517	2,420	2,269	4,937	4,696	5.1
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	1,108	1,082	1,050	2,190	2,179	.5
Furnace Coke Plants	6,959	6,869	6,865	13,828	14,146	-2.2
U.S. Total	8,067	7,951	7,915	16,018	16,325	-1.9

* 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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
By State						
Alabama	\$47.39	\$47.94	\$47.84	\$47.66	\$48.19	-1.1
Illinois	w	w	w	w	w	w
Indiana	\$50.84	\$55.69	\$54.76	\$53.20	\$54.10	-1.7
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	\$45.60	\$46.86	\$46.60	\$46.25	\$45.82	.9
Pennsylvania	47.03	46.57	45.86	46.81	45.96	1.8
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	\$47.29	\$47.16	\$46.79	\$47.22	\$47.17	.1
Furnace Coke Plants	47.43	48.71	48.44	48.07	48.18	-.2
U.S. Total	47.41	48.50	48.22	47.95	48.04	-.2

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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
New England Total	201	148	175	349	604	-42.1
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	355	360	451	715	785	-9.0
Pennsylvania	1,379	1,163	971	2,542	1,920	32.4
East North Central Total	4,458	4,291	4,103	8,749	7,923	10.4
Illinois	1,047	1,133	941	2,180	1,698	28.4
Indiana	1,219	1,166	1,004	2,385	2,075	14.9
Michigan	792	477	732	1,269	1,201	5.7
Ohio	962	1,086	967	2,048	2,096	-2.3
Wisconsin	438	430	459	868	853	1.7
West North Central Total	2,963	3,038	2,774	6,001	5,615	6.9
Iowa	661	452	634	1,113	1,048	6.2
Kansas	35	31	24	65	47	37.4
Minnesota	213	292	102	505	383	31.8
Missouri	319	249	287	566	534	6.4
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	335	302	333	637	621	2.5
Georgia	416	487	390	903	897	.7
Maryland	190	170	195	360	346	4.3
North Carolina	576	655	722	1,231	1,439	-14.5
South Carolina	576	624	449	1,200	996	20.5
Virginia	677	801	952	1,478	2,063	-28.4
West Virginia	665	472	574	1,137	1,252	-9.2
East South Central Total	w	w	w	w	w	w
Alabama	684	622	727	1,307	1,458	-10.4
Kentucky	648	645	350	1,293	758	70.7
Mississippi	w	w	w	w	w	w
Tennessee	969	917	877	1,887	1,867	1.0
West South Central Total	1,704	1,655	1,722	3,358	2,828	18.7
Arkansas	86	79	73	165	142	16.0
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	1,214	1,189	1,368	2,402	2,116	13.5
Mountain Total	1,075	1,233	1,113	2,307	2,451	-5.9
Arizona	137	164	139	301	295	2.0
Colorado	138	175	154	313	367	-14.9
Idaho	96	109	73	204	241	-15.3
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	209	170	149	379	248	52.5
Wyoming	411	472	518	883	1,093	-19.2
Pacific Total	666	474	794	1,141	1,596	-28.5
Alaska	2	-	-	2	-	-
California	621	411	699	1,032	1,417	-27.2
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	37	35	38	72	82	-11.8
U.S. Total	18,697	18,245	17,673	36,942	35,775	3.3

w 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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
New England Total	\$58.14	\$62.10	\$64.62	\$60.14	\$66.98	-10.2
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	\$40.96	\$37.83	\$44.43	\$39.53	\$44.22	-10.6
Pennsylvania	33.96	36.51	35.26	35.21	36.22	-2.8
East North Central Total	34.00	34.74	34.78	34.36	35.22	-2.4
Illinois	29.12	28.15	29.41	28.63	29.53	-3.1
Indiana	30.18	31.60	31.90	30.89	32.46	-4.8
Michigan	41.02	44.82	41.18	42.53	42.58	-.1
Ohio	34.05	35.55	35.05	34.84	35.33	-1.4
Wisconsin	41.02	42.63	41.01	41.82	42.62	-1.9
West North Central Total	16.58	16.62	16.56	17.60	16.94	3.9
Iowa	28.26	25.18	28.57	27.01	26.73	1.0
Kansas	34.30	35.29	30.68	34.74	32.33	7.5
Minnesota	36.56	34.38	35.44	34.93	35.07	-.4
Missouri	29.99	33.61	30.68	31.73	32.29	-1.7
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	\$48.63	\$49.78	\$47.90	\$49.18	\$47.98	2.5
Georgia	45.15	45.04	45.57	45.09	45.00	.2
Maryland	31.76	31.63	32.82	31.70	32.49	-2.4
North Carolina	42.83	43.14	43.03	43.00	43.55	-1.3
South Carolina	43.90	44.41	43.49	44.16	43.48	1.6
Virginia	40.86	41.51	41.05	41.18	40.83	.9
West Virginia	32.69	31.67	32.59	32.16	31.95	.6
East South Central Total	w	w	w	w	w	w
Alabama	\$38.38	\$40.55	\$39.48	\$39.52	\$39.60	-.2
Kentucky	43.39	43.91	44.00	43.69	43.97	-.6
Mississippi	w	w	w	w	w	w
Tennessee	\$35.02	\$35.82	\$35.17	\$35.41	\$35.43	-.1
West South Central Total	23.02	22.92	17.70	22.97	20.94	9.7
Arkansas	43.70	42.99	44.73	43.36	44.85	-3.3
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	\$19.14	\$19.23	\$13.85	\$19.18	\$16.37	17.2
Mountain Total	29.59	28.69	28.47	29.09	28.59	1.8
Arizona	40.87	40.73	41.49	40.79	41.19	-1.0
Colorado	28.94	27.13	31.55	27.95	30.55	-8.5
Idaho	32.48	32.22	32.92	32.32	33.86	-4.5
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	\$26.47	\$24.99	\$25.67	\$26.10	\$25.66	1.7
Wyoming	24.76	24.10	23.41	24.35	23.53	3.5
Pacific Total	44.24	41.11	44.58	42.64	44.49	-4.1
Alaska	-	-	-	-	-	-
California	43.92	40.01	41.85	41.98	42.98	-2.3
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	\$47.87	\$58.30	\$58.25	\$52.91	\$56.75	-6.8
U.S. Total	32.16	32.90	31.93	32.54	32.74	-.6

* 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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
20 Food and kindred products	1,591	2,017	1,691	3,607	3,663	-1.5
21 Tobacco products	160	172	149	333	350	-5.0
22 Textile mill products	319	350	241	669	603	11.0
23 Apparel, other textile products	w	w	w	w	w	w
24 Lumber and wood products	29	11	11	41	26	57.1
25 Furniture and fixtures	25	18	25	43	49	-12.3
26 Paper and allied products	2,858	3,122	2,788	5,979	5,863	2.0
27 Printing and publishing	w	w	w	w	w	w
28 Chemicals, allied products	3,189	3,447	3,236	6,636	6,819	-2.7
29 Petroleum and coal products ¹	1,864	1,816	1,887	3,681	3,772	-2.4
30 Rubber, misc. plastic products	65	78	61	143	141	1.4
31 Leather, leather products	w	w	w	w	w	w
32 Stone, clay, glass products	3,250	2,403	3,138	5,653	5,345	5.8
33 Primary metal industries ²	1,900	1,772	2,149	3,672	3,692	-.6
34 Fabricated metal products	48	74	81	122	182	-33.1
35 Machinery, except electric	74	108	63	182	148	22.7
36 Electric, electronic equipment	60	92	42	152	123	23.5
37 Transportation equipment	w	w	w	w	w	w
38 Instruments, related products	w	w	w	w	w	w
39 Misc. manufacturing industries	w	w	w	w	w	w
U.S. Total	15,945	16,202	16,127	32,147	32,057	.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 43. Average Price of U.S. Coal Receipts at Manufacturing Plants by Standard Industrial Classification (SIC) Code
(Dollars per Short Ton)

SIC Code	April - June 1993	January - March 1993	April - June 1992	Percent Difference April - June: 1993 versus 1992
20 Food and kindred products	\$30.06	\$29.39	\$30.62	-1.8
21 Tobacco products	46.85	46.07	46.27	1.3
22 Textile mill products	45.45	45.49	46.07	-1.3
23 Apparel, other textile products	w	w	w	w
24 Lumber and wood products	\$43.91	\$41.32	\$41.13	6.8
25 Furniture and fixtures	46.80	47.35	49.07	-4.6
26 Paper and allied products	39.97	41.08	41.08	-2.7
27 Printing and publishing	w	w	w	w
28 Chemicals, allied products	\$36.12	\$35.38	\$34.64	4.3
29 Petroleum and coal products ¹	11.25	12.85	11.33	-.7
30 Rubber, misc. plastic products	36.15	37.18	36.85	-1.9
31 Leather, leather products	w	w	w	w
32 Stone, clay, glass products	\$35.16	\$35.80	\$35.42	-.7
33 Primary metal industries ²	23.51	25.36	22.65	3.8
34 Fabricated metal products	47.55	50.73	45.70	4.0
35 Machinery, except electric	32.35	32.46	39.53	-18.2
36 Electric, electronic equipment	45.12	45.11	42.79	5.4
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	\$32.16	\$32.90	\$31.93	.7

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	April-June 1993	January-March 1993	April-June 1992	Year to Date		
				1993	1992	Percent Change
New England Total	26	23	35	49	56	-12.3
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	371	469	395	640	1,015	-17.3
New Jersey	w	w	w	w	w	w
New York	w	w	w	w	w	w
Pennsylvania	302	400	319	702	871	-19.4
East North Central Total	347	476	265	624	694	18.6
Illinois	w	w	w	w	w	w
Indiana	108	182	66	290	192	51.1
Michigan	w	w	w	w	w	w
Ohio	80	158	105	238	295	-19.5
Wisconsin	w	w	w	w	w	w
West North Central Total	w	w	w	w	w	w
Iowa	35	11	19	48	44	8.1
Kansas	*	18	*	18	*	NM
Minnesota	1	3	*	3	19	-82.8
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	235	279	109	514	267	92.6
Delaware	w	w	w	w	w	w
District of Columbia	17	26	3	43	31	37.9
Florida	*	*	1	*	1	-91.5
Georgia	7	6	12	13	17	-28.0
Maryland	w	w	w	w	w	w
North Carolina	45	72	24	117	64	82.7
South Carolina	19	37	4	56	8	NM
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
East South Central Total	241	293	61	534	170	214.3
Alabama	5	24	17	30	41	-28.1
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	*	5	2	5	7	-26.6
Arkansas	*	*	*	*	2	-82.4
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	*	4	2	4	5	-15.1
Mountain Total	w	w	w	w	w	w
Arizona	-	*	1	*	1	-95.2
Colorado	6	9	6	16	24	-35.8
Idaho	2	15	5	18	20	-11.8
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	15	69	8	85	45	89.8
Pacific Total	219	192	140	411	312	31.5
Alaska	140	160	113	301	262	14.8
California	42	*	-	42	*	NM
Oregon	-	1	-	1	*	191.9
Washington	36	31	28	68	50	34.6
U.S. Total	1,593	2,052	1,149	3,645	2,992	21.8

* 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-6, "Coal Distribution Report."

Consumption

About 8 tons out of every 10 tons of coal produced annually are used to generate electricity. More than any other industry, coal-consuming electric utilities account for well over three quarters of total domestic coal consumption.

Figure 10. Quarterly U.S. Coal Consumption, 1985-1993

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 1985-1993
(Thousand Short Tons)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial	Residential and Commercial	Total
1985 January - March	173,919	10,256	19,235	2,074	205,484
April - June	183,132	10,913	17,894	1,589	193,529
July - September	184,108	10,218	17,938	1,873	213,937
October - December	172,682	9,870	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	187,382	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	211,668
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	191,151	8,340	19,260	1,843	220,594
April - June	183,507	8,097	17,284	1,149	210,037
July - September	210,419	8,200	17,843	1,236	237,698
October - December	194,783	7,729	19,656	1,925	224,093
Total	779,860	32,366	74,042	6,153	892,421
1993 January - March	200,764	7,783	19,096	2,052	229,695
April - June	187,778	7,886	18,545	1,593	215,802
Total	388,542	15,669	37,641	3,645	445,497

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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
New England Total	1,287	1,849	1,431	3,136	3,653	-14.1
Connecticut	218	243	205	462	461	.2
Maine	137	69	96	206	460	-55.3
Massachusetts	696	1,105	882	1,601	2,103	-14.4
New Hampshire	236	429	243	665	619	7.5
Rhode Island	.	1	.	1	1	-12.9
Vermont	.	1	5	2	9	-79.5
Middle Atlantic Total	16,403	18,637	17,643	35,040	36,189	-3.2
New Jersey	530	778	592	1,307	1,208	8.2
New York	2,608	3,180	3,283	5,786	6,681	-13.4
Pennsylvania	13,265	14,679	13,768	27,945	28,300	-1.3
East North Central Total	48,918	53,379	47,403	102,294	99,237	3.1
Illinois	8,135	9,223	7,915	17,357	16,575	4.7
Indiana	14,219	15,957	13,696	30,176	28,630	5.4
Michigan	7,914	7,613	7,262	15,527	15,142	2.5
Ohio	13,802	15,183	13,801	28,985	29,036	-.2
Wisconsin	4,845	5,403	4,729	10,248	9,853	4.0
West North Central Total	28,207	30,715	25,791	58,922	55,873	5.5
Iowa	4,855	5,019	4,008	9,874	8,968	10.1
Kansas	4,341	3,899	3,162	8,240	6,902	19.4
Minnesota	3,534	4,678	3,627	8,212	8,079	1.6
Missouri	5,869	5,830	5,766	11,698	11,670	.2
Nebraska	2,193	2,572	1,822	4,765	4,109	16.0
North Dakota	6,704	8,073	6,729	14,777	14,847	-.5
South Dakota	710	644	676	1,355	1,298	4.4
South Atlantic Total	35,633	35,898	34,765	71,531	68,371	4.6
Delaware	547	564	413	1,111	841	32.1
District of Columbia	17	26	3	43	31	37.9
Florida	6,386	6,434	6,299	12,819	12,330	4.0
Georgia	6,820	5,784	6,607	12,604	11,599	8.7
Maryland	2,466	2,447	2,446	4,913	4,683	4.9
North Carolina	5,755	5,944	5,289	11,699	10,606	10.3
South Carolina	3,195	2,931	2,706	6,125	5,276	16.1
Virginia	2,793	3,894	3,128	6,687	7,009	-4.6
West Virginia	7,654	7,874	7,874	15,529	15,997	-2.9
East South Central Total	25,379	24,283	23,234	49,662	45,223	9.8
Alabama	8,050	6,814	7,770	14,864	14,577	2.0
Kentucky	8,980	9,768	8,315	18,748	16,516	13.5
Mississippi	1,089	775	944	1,865	1,747	6.7
Tennessee	7,260	6,926	6,205	14,186	12,383	14.6
West South Central Total	34,653	33,712	31,984	68,364	63,196	8.2
Arkansas	3,070	2,743	3,050	5,813	5,720	1.6
Louisiana	3,504	3,269	3,294	6,774	6,434	5.3
Oklahoma	4,180	4,535	3,732	8,714	7,792	11.8
Texas	23,899	23,165	21,908	47,064	43,250	8.8
Mountain Total	23,316	28,174	25,195	51,490	53,154	-3.1
Arizona	4,358	4,314	4,113	8,672	8,134	6.6
Colorado	3,852	4,326	4,022	8,178	8,264	-1.0
Idaho	46	183	27	230	254	-9.5
Montana	962	2,763	1,918	3,726	4,998	-25.5
Nevada	1,369	2,446	1,873	3,815	3,999	-4.6
New Mexico	3,389	3,459	3,560	6,848	6,825	.3
Utah	3,649	3,971	3,489	7,620	7,533	1.2
Wyoming	5,691	6,710	6,194	12,401	13,149	-5.7
Pacific Total	2,010	3,048	2,590	5,058	5,734	-11.8
Alaska	208	243	164	451	395	14.0
California	683	411	717	1,093	1,419	-22.9
Hawaii	20	8	10	28	16	73.1
Oregon	262	605	298	868	952	-8.8
Washington	837	1,781	1,401	2,618	2,952	-11.3
U.S. Total	215,802	229,695	210,037	445,497	430,630	3.5

* Rounded to zero.

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-8, "Coal Distribution Report."

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

Census Division and State	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Per cent Change
New England Total	1,061	1,674	1,220	2,735	3,001	-8.9
Connecticut	187	238	196	425	445	-4.4
Maine	-	-	-	-	-	-
Massachusetts	639	1,073	812	1,711	1,973	-13.2
New Hampshire	235	363	212	599	584	2.6
Rhode Island	-	-	-	-	-	-
Vermont	-	-	-	-	-	-
Middle Atlantic Total	11,427	13,790	13,241	25,218	26,966	-6.5
New Jersey	474	695	534	1,169	1,075	8.7
New York	1,816	2,403	2,487	4,219	5,105	-17.4
Pennsylvania	9,137	10,693	10,220	19,830	20,786	-4.6
East North Central Total	41,114	45,014	39,640	86,129	82,940	3.8
Illinois	6,478	7,459	6,406	13,937	13,495	3.3
Indiana	11,119	12,762	10,648	23,881	22,323	7.0
Michigan	7,065	6,672	6,553	13,737	13,529	1.5
Ohio	12,057	13,219	11,761	25,276	24,696	2.3
Wisconsin	4,396	4,902	4,273	9,297	8,897	4.5
West North Central Total	25,163	27,246	22,936	52,409	49,616	5.6
Iowa	4,187	4,324	3,396	8,511	7,671	11.0
Kansas	4,304	3,851	3,136	8,155	6,853	19.0
Minnesota	3,311	4,364	3,509	7,675	7,648	.4
Missouri	5,469	5,476	5,425	10,945	10,960	-1.1
Nebraska	2,140	2,482	1,778	4,623	3,978	16.2
North Dakota	5,113	6,177	5,084	11,290	11,312	-.2
South Dakota	639	571	609	1,210	1,194	1.4
South Atlantic Total	31,338	31,321	30,350	62,659	59,162	5.9
Delaware	491	525	364	1,016	756	34.4
District of Columbia	-	-	-	-	-	-
Florida	6,077	6,110	5,957	12,187	11,733	3.9
Georgia	6,404	5,297	6,217	11,701	10,680	9.6
Maryland	2,279	2,274	2,260	4,553	4,333	5.1
North Carolina	5,141	5,218	4,528	10,359	9,094	13.9
South Carolina	2,608	2,317	2,200	4,925	4,200	17.3
Virginia	1,810	2,699	1,922	4,509	4,414	2.2
West Virginia	6,530	6,880	6,902	13,410	13,953	-3.9
East South Central Total	21,708	20,652	20,048	42,360	38,698	9.5
Alabama	6,542	5,422	6,186	11,964	11,434	4.6
Kentucky	7,977	8,752	7,656	16,729	15,128	10.6
Mississippi	1,019	709	888	1,728	1,643	5.2
Tennessee	6,170	5,769	5,317	11,939	10,493	13.8
West South Central Total	32,941	32,233	30,556	65,175	60,481	7.8
Arkansas	2,986	2,664	2,978	5,650	5,575	1.3
Louisiana	3,350	3,125	3,146	6,475	6,145	5.4
Oklahoma	3,893	4,295	3,576	8,188	7,484	9.4
Texas	22,713	22,149	20,856	44,862	41,276	8.7
Mountain Total	21,941	26,485	23,835	48,426	49,951	-3.1
Arizona	4,200	4,163	3,963	8,363	7,835	6.7
Colorado	3,702	4,132	3,902	7,834	7,910	-1.0
Idaho	-	-	-	-	-	-
Montana	926	2,669	1,900	3,594	4,880	-26.3
Nevada	1,323	2,396	1,827	3,719	3,908	-4.9
New Mexico	3,373	3,445	3,546	6,818	6,797	.3
Utah	3,163	3,509	3,034	6,672	6,592	1.2
Wyoming	5,255	6,171	5,662	11,426	12,029	-5.0
Pacific Total	1,084	2,349	1,680	3,433	3,844	-10.7
Alaska	65	82	52	148	133	10.7
California	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Oregon	256	569	292	825	902	-8.5
Washington	763	1,697	1,336	2,460	2,808	-12.4
U.S. Total	187,778	200,764	183,507	388,542	374,658	3.7

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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	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	2,472	2,443	2,275	4,915	4,732	3.9
East North Central Total	3,037	3,056	3,508	6,092	7,082	-14.0
Illinois	w	w	w	w	w	w
Indiana	1,769	1,773	1,982	3,542	3,987	-11.1
Michigan	w	w	w	w	w	w
Ohio	704	711	956	1,414	1,925	-26.5
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	816	788	830	1,604	1,665	-3.7
Kentucky	w	w	w	w	w	w
Mississippi	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-
West South Central Total	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-
Texas	-	-	-	-	-	-
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	1,089	1,059	1,082	2,148	2,164	-7
Furnace Coke Plants	6,796	6,724	7,015	13,520	14,273	-5.3
U.S. Total	7,886	7,783	8,097	15,668	16,437	-4.7

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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
New England Total	200	151	176	352	595	-40.9
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	397	449	419	845	829	2.0
Pennsylvania	1,354	1,144	954	2,498	1,912	30.7
East North Central Total	4,416	4,833	3,991	9,250	8,521	8.6
Illinois	1,047	1,098	899	2,146	1,792	19.7
Indiana	1,224	1,239	1,000	2,463	2,129	15.7
Michigan	788	899	657	1,668	1,526	9.3
Ohio	961	1,095	979	2,056	2,119	-3.0
Wisconsin	415	501	456	917	955	-4.0
West North Central Total	2,932	3,300	2,768	6,232	6,021	3.5
Iowa	633	683	593	1,316	1,254	5.0
Kansas	37	30	26	67	49	36.9
Minnesota	222	312	118	534	412	29.6
Missouri	335	280	289	615	596	3.1
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	309	324	341	633	597	6.0
Georgia	410	481	379	891	901	-1.1
Maryland	185	170	185	356	344	3.5
North Carolina	570	654	737	1,224	1,448	-15.5
South Carolina	568	577	502	1,145	1,068	7.2
Virginia	663	870	919	1,534	2,017	-24.0
West Virginia	626	480	561	1,106	1,245	-11.2
East South Central Total	w	w	w	w	w	w
Alabama	687	580	737	1,267	1,437	-11.8
Kentucky	659	656	358	1,314	755	74.1
Mississippi	w	w	w	w	w	w
Tennessee	909	981	872	1,890	1,840	2.8
West South Central Total	1,711	1,473	w	3,184	2,708	17.6
Arkansas	84	78	72	162	143	13.6
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	1,186	1,011	1,050	2,197	1,969	11.6
Mountain Total	1,075	1,279	1,031	2,354	2,415	-2.5
Arizona	159	151	150	310	298	4.1
Colorado	143	185	113	329	330	-4
Idaho	44	168	22	212	234	-9.3
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	213	157	148	369	264	39.8
Wyoming	420	470	523	890	1,075	-17.2
Pacific Total	707	507	770	1,214	1,578	-23.1
Alaska	2	w	-	w	-	-
California	641	411	717	1,052	1,419	-25.9
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	38	52	37	91	94	-3.2
U.S. Total	18,545	19,096	17,284	37,641	36,544	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 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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
20 Food and kindred products	1,568	2,264	1,553	3,832	3,799	0.9
21 Tobacco products	156	184	162	340	348	-2.4
22 Textile mill products	313	370	267	684	626	9.3
23 Apparel, other textile products	w	w	w	w	w	w
24 Lumber and wood products	29	27	27	56	55	.9
25 Furniture and fixtures	18	35	18	53	55	-3.8
26 Paper and allied products	2,918	3,302	2,768	6,220	6,001	3.7
27 Printing and publishing	w	w	w	w	w	w
28 Chemicals, allied products	3,079	3,570	3,244	6,849	6,869	-3.2
29 Petroleum and coal products ¹	1,832	1,759	1,865	3,592	3,788	-5.2
30 Rubber, misc. plastic products	67	78	63	145	144	.4
31 Leather, leather products	w	w	w	w	w	w
32 Stone, clay, glass products	3,170	2,735	3,036	5,905	5,637	4.8
33 Primary metal industries ²	1,833	1,623	1,760	3,455	3,473	-.5
34 Fabricated metal products	59	113	82	171	216	-20.8
35 Machinery, except electric	84	180	50	264	197	34.1
36 Electric, electronic equipment	59	99	50	158	133	18.9
37 Transportation equipment	w	w	w	w	w	w
38 Instruments, related products	w	w	w	w	w	w
39 Misc. manufacturing industries	w	w	w	w	w	w
U.S. Total	15,705	17,207	15,454	32,911	32,650	.8

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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
New England Total	26	23	35	49	56	-12.3
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	371	469	395	840	1,015	-17.3
New Jersey	w	w	w	w	w	w
New York	w	w	w	w	w	w
Pennsylvania	302	400	319	702	871	-19.4
East North Central Total	347	476	265	824	694	18.6
Illinois	w	w	w	w	w	w
Indiana	108	182	66	290	192	51.1
Michigan	w	w	w	w	w	w
Ohio	80	158	105	238	295	-19.5
Wisconsin	w	w	w	w	w	w
West North Central Total	w	w	w	w	w	w
Iowa	35	11	19	46	44	6.1
Kansas	*	18	*	18	*	NM
Minnesota	1	3	*	3	19	-82.8
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	235	279	109	514	267	92.6
Delaware	w	w	w	w	w	w
District of Columbia	17	26	3	43	31	37.9
Florida	*	*	1	*	1	-91.5
Georgia	7	6	12	13	17	-28.0
Maryland	w	w	w	w	w	w
North Carolina	45	72	24	117	64	82.7
South Carolina	19	37	4	56	8	634.2
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
East South Central Total	241	293	61	534	170	214.3
Alabama	5	24	17	30	41	-28.1
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	*	5	2	5	7	-26.6
Arkansas	*	*	*	*	2	-82.4
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	*	w	w	w
Texas	*	4	2	4	5	-15.1
Mountain Total	w	w	w	w	w	w
Arizona	-	*	1	*	1	-95.2
Colorado	6	9	6	18	24	-35.8
Idaho	2	15	5	18	20	-11.6
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	15	69	8	85	45	89.8
Pacific Total	219	192	140	411	312	31.5
Alaska	140	160	113	301	262	14.8
California	42	*	-	42	*	NM
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	36	31	28	68	50	34.6
U.S. Total	1,593	2,052	1,149	3,645	2,992	21.8

* 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-8, "Coal Distribution Report."

Stocks

Large quantities of coal produced by many mines are collected and stockpiled in an orderly fashion at storage facility.

Figure 11. Quarterly U.S. Coal Stocks, 1985-1993

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;" Producer and Distributor: Form EIA-6, "Coal Distribution Report."

Table 52. U.S. Coal Stocks, 1985-1993
(Thousand Short Tons)

Last Day of Quarter	Coal Consumers ¹				Coal Producers and Distributors	Total
	Electric Utilities	Coke Plants	Other Industrial ²	Total		
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	10,436	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	6,883	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	160,032	2,875	5,725	168,632	39,853	208,485
June 30	164,176	2,776	6,317	173,270	40,513	213,783
September 30	152,665	2,215	6,979	161,878	35,198	197,076
December 31	154,130	2,597	6,965	163,692	33,993	197,685
1993 March 31	143,978	2,809	5,872	152,659	38,319	190,977
June 30	145,448	3,020	6,049	154,517	34,827	189,344

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,
June 30, 1993**
(Thousand Short Tons)

Census Division and State	Electric Utilities	Coke Plants	Other Industrial ¹	Total
New England Total	1,367	-	14	1,381
Connecticut	166	-	w	w
Maine	-	-	w	w
Massachusetts	794	-	w	w
New Hampshire	407	-	w	w
Rhode Island	-	-	w	w
Vermont	-	-	w	w
Middle Atlantic Total	16,451	w	w	17,998
New Jersey	816	-	w	w
New York	1,675	w	275	w
Pennsylvania	13,961	828	280	15,069
East North Central Total	36,292	1,096	1,877	39,264
Illinois	6,317	w	320	w
Indiana	9,419	641	653	10,713
Michigan	6,544	w	456	w
Ohio	10,509	162	219	10,891
Wisconsin	3,502	-	229	3,731
West North Central Total	16,809	-	775	17,584
Iowa	3,631	-	354	3,985
Kansas	2,402	-	10	2,412
Minnesota	1,711	-	47	1,758
Missouri	4,988	-	183	5,171
Nebraska	1,532	-	w	w
North Dakota	2,275	-	w	w
South Dakota	270	-	w	w
South Atlantic Total	26,915	w	w	28,410
Delaware	450	-	w	w
District of Columbia	-	-	-	-
Florida	4,134	-	111	4,244
Georgia	4,756	-	154	4,910
Maryland	2,196	w	40	w
North Carolina	3,971	-	211	4,182
South Carolina	1,955	-	281	2,235
Virginia	1,814	w	219	w
West Virginia	7,640	w	187	w
East South Central Total	15,187	w	w	16,312
Alabama	5,324	457	163	5,945
Kentucky	5,112	w	106	w
Mississippi	938	-	w	w
Tennessee	3,812	-	263	4,076
West South Central Total	14,573	21	569	15,163
Arkansas	1,175	-	22	1,197
Louisiana	1,741	-	46	1,787
Oklahoma	2,908	-	68	2,977
Texas	8,749	21	433	9,203
Mountain Total	16,462	w	311	w
Arizona	3,746	-	44	3,790
Colorado	3,502	-	13	3,515
Idaho	-	-	102	102
Montana	763	-	w	w
Nevada	1,376	-	w	w
New Mexico	1,517	-	w	w
Utah	3,652	w	25	w
Wyoming	1,906	-	80	1,986
Pacific Total	1,392	-	155	1,546
Alaska	6	-	-	6
California	-	-	106	106
Hawaii	-	-	w	w
Oregon	435	-	w	w
Washington	951	-	20	971
U.S. Total	145,448	3,020	6,049	154,517

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	June 30, 1993	March 31, 1993	June 30, 1992	Percent Difference June 30: 1993 versus 1992
New England Total	1,367	1,067	1,251	9.3
Connecticut	166	161	182	-8.8
Maine	-	-	-	-
Massachusetts	794	527	709	11.9
New Hampshire	407	378	360	13.2
Rhode Island	-	-	-	-
Vermont	-	-	-	-
Middle Atlantic Total	16,451	16,304	16,566	-7
New Jersey	816	723	794	2.8
New York	1,675	1,787	1,506	11.2
Pennsylvania	13,961	13,794	14,266	-2.1
East North Central Total	36,292	35,712	42,869	-15.3
Illinois	6,317	6,380	6,723	-6.0
Indiana	9,419	9,284	12,746	-26.1
Michigan	6,544	6,712	7,998	-18.2
Ohio	10,509	10,371	11,105	-5.4
Wisconsin	3,502	2,965	4,296	-18.5
West North Central Total	16,809	17,124	21,464	-21.7
Iowa	3,631	3,318	4,538	-20.0
Kansas	2,402	2,301	3,822	-37.2
Minnesota	1,711	1,747	2,141	-20.1
Missouri	4,988	5,833	6,776	-26.4
Nebraska	1,532	1,626	1,814	-15.5
North Dakota	2,275	2,029	2,085	9.1
South Dakota	270	271	289	-6.6
South Atlantic Total	26,915	26,597	29,764	-9.6
Delaware	450	329	388	16.1
District of Columbia	-	-	-	-
Florida	4,134	3,948	5,238	-21.1
Georgia	4,756	5,038	4,804	-1.0
Maryland	2,196	2,324	2,412	-9.0
North Carolina	3,971	3,960	4,432	-10.4
South Carolina	1,955	2,164	2,155	-9.3
Virginia	1,814	1,399	1,781	1.9
West Virginia	7,640	7,436	8,555	-10.7
East South Central Total	15,187	14,927	13,869	9.5
Alabama	5,324	4,988	4,541	17.3
Kentucky	5,112	5,196	5,386	-5.1
Mississippi	938	872	930	9
Tennessee	3,812	3,871	3,012	26.6
West South Central Total	14,573	15,362	18,731	-22.2
Arkansas	1,175	1,397	2,202	-46.6
Louisiana	1,741	1,763	2,163	-19.5
Oklahoma	2,908	3,096	2,888	7
Texas	8,749	9,105	11,478	-23.8
Mountain Total	16,462	15,856	18,186	-9.5
Arizona	3,746	3,607	4,432	-15.5
Colorado	3,502	3,458	3,463	1.1
Idaho	-	-	-	-
Montana	763	822	775	-1.5
Nevada	1,376	1,232	1,482	-7.1
New Mexico	1,517	1,492	1,412	7.4
Utah	3,652	3,288	3,828	-4.6
Wyoming	1,906	1,956	2,794	-31.8
Pacific Total	1,392	1,030	1,476	-5.7
Alaska	6	5	7	-13.1
California	-	-	-	-
Hawaii	-	-	-	-
Oregon	435	576	608	-28.5
Washington	951	449	860	10.5
U.S. Total	145,448	143,978	164,176	-11.4

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	June 30, 1993	March 31, 1993	June 30, 1992	Percent Difference June 30: 1993 versus 1992
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	828	793	863	-4.0
East North Central Total	1,096	997	1,040	5.3
Illinois	w	w	w	w
Indiana	641	504	502	27.6
Michigan	w	w	w	w
Ohio	162	190	232	-30.1
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	457	411	311	47.0
Kentucky	w	w	w	w
Mississippi	-	-	-	-
Tennessee	-	-	-	-
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	365	333	331	10.2
Furnace Coke Plants	2,655	2,476	2,446	8.6
U.S. Total	3,020	2,809	2,776	8.8

* 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	June 30, 1993	March 31, 1993	June 30, 1992	Percent Difference June 30: 1993 versus 1992
New England Total	14	13	14	-3.1
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	275	317	252	9.1
Pennsylvania	280	255	291	-3.8
East North Central Total	1,877	1,830	1,984	-5.4
Illinois	320	320	328	-2.4
Indiana	653	658	711	-8.2
Michigan	456	433	567	-19.5
Ohio	219	219	166	32.0
Wisconsin	229	201	213	7.4
West North Central Total	775	744	773	.2
Iowa	354	327	438	-19.2
Kansas	10	12	9	16.2
Minnesota	47	57	55	-13.6
Missouri	183	199	147	24.5
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	111	84	124	-10.6
Georgia	154	148	163	-5.6
Maryland	40	35	38	4.6
North Carolina	211	204	201	5.0
South Carolina	281	256	180	55.6
Virginia	219	204	252	-13.1
West Virginia	187	148	138	36.0
East South Central Total	w	w	w	w
Alabama	163	166	152	7.3
Kentucky	106	116	126	-16.2
Mississippi	w	w	w	w
Tennessee	263	203	249	5.8
West South Central Total	569	576	723	-21.3
Arkansas	22	20	14	50.5
Louisiana	w	w	w	w
Oklahoma	w	w	w	w
Texas	433	405	584	-25.9
Mountain Total	311	311	349	-10.9
Arizona	44	66	49	-10.4
Colorado	13	19	58	-77.5
Idaho	102	50	88	15.8
Montana	w	w	w	w
Nevada	w	w	w	w
New Mexico	w	w	w	w
Utah	25	29	23	9.1
Wyoming	80	89	90	-11.1
Pacific Total	155	195	240	-35.7
Alaska	-	-	-	-
California	106	126	137	-22.4
Hawaii	w	w	w	w
Oregon	w	w	w	w
Washington	20	21	37	-45.5
U.S. Total	6,049	5,872	6,317	-4.2

w 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	June 30, 1993	March 31, 1993	June 30, 1992	Percent Difference June 30: 1993 versus 1992
20 Food and kindred products	578	528	660	-12.5
21 Tobacco products	72	68	68	6.6
22 Textile mill products	124	119	102	20.9
23 Apparel, other textile products	w	w	w	w
24 Lumber and wood products	16	16	6	168.4
25 Furniture and fixtures	11	4	22	-49.2
26 Paper and allied products	886	945	991	-10.6
27 Printing and publishing	w	w	w	w
28 Chemicals, allied products	1,205	1,112	1,021	18.0
29 Petroleum and coal products ¹	184	161	157	17.3
30 Rubber, misc. plastic products	14	16	11	28.9
31 Leather, leather products	w	w	w	w
32 Stone, clay, glass products	1,640	1,553	1,561	5.1
33 Primary metal industries ²	885	896	1,176	-24.8
34 Fabricated metal products	53	65	65	-17.8
35 Machinery, except electric	53	63	107	-50.4
36 Electric, electronic equipment	13	11	13	2.9
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	6,049	5,872	6,317	-4.2

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

Stocks	June 30, 1993	March 31, 1993	June 30, 1992	Percent Difference June 30: 1993 versus 1992
Coke Total	1,683	1,678	2,027	-17.0
By State				
Alabama	93	89	96	-3.1
Illinois	w	w	w	w
Indiana	319	332	419	-23.8
Kentucky	w	w	w	w
Maryland	w	w	w	w
Michigan	w	w	w	w
New York	w	w	w	w
Ohio	138	127	142	-2.8
Pennsylvania	420	432	631	-33.5
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	282	263	271	4.0
Furnace Coke Plants	1,401	1,415	1,755	-20.2
Breeze Total	151	176	258	-41.6

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	June 30, 1993	March 31, 1993	June 30, 1992	Percent Difference June 30: 1993 versus 1992
Alabama	2,316	2,243	2,409	-3.9
Alaska	49	69	50	-2.3
Arizona	1,707	1,641	1,662	2.7
Arkansas	2	4	4	-41.9
California	-	-	24	-
Colorado	1,341	1,581	1,246	7.7
Illinois	968	1,955	2,769	-65.0
Indiana	764	826	1,037	-26.3
Kansas	31	35	30	4.1
Kentucky Total	4,614	5,233	6,329	-27.1
Eastern	3,795	4,067	4,654	-18.5
Western	819	1,166	1,675	-51.1
Louisiana	2	94	2	3.0
Maryland	286	134	384	-25.5
Missouri	-	-	5	-
Montana	719	750	504	42.6
New Mexico	2,283	2,283	1,823	25.2
North Dakota	1,804	1,847	1,787	6.6
Ohio	640	780	709	-9.7
Oklahoma	6	8	72	-91.3
Pennsylvania Total	2,353	2,914	3,740	-37.1
Anthracite	255	225	225	13.2
Bituminous	2,098	2,689	3,514	-40.3
Tennessee	27	40	58	-53.3
Texas	555	558	580	-4.4
Utah	1,769	1,324	2,616	-32.4
Virginia	2,249	2,289	2,319	-3.0
Washington	53	51	52	.4
West Virginia Total	6,910	8,655	7,176	-3.7
Northern	1,651	2,732	2,583	-36.1
Southern	5,259	5,923	4,593	14.5
Wyoming	3,279	3,006	3,127	4.9
Appalachian Total	16,575	21,122	21,448	-13.4
Interior Total	3,148	4,645	6,174	-49.0
Western Total	13,104	12,552	12,691	1.7
East of the Miss. River	21,127	25,069	26,929	-21.5
West of the Miss. River	13,700	13,249	13,584	.9
U.S. Total	34,827	38,319	40,513	-14.0

Note: Total may not equal sum of components because of independent rounding.
Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

2 of 2

Appendix A

U.S. Coal Imports

At Newport News, Virginia, a collier waits to be loaded with coal for foreign markets. About 10 percent of all coal produced in the U.S. is exported.

Appendix A

U.S. Coal Imports

During the second quarter of 1993, U.S. coal imports totaled 1.1 million short tons, a record high second quarter level and 5 percent higher than coal imports during the second quarter of 1992. The leading source of coal imports in the second quarter of 1993 was Colombia, with 475 thousand short tons, 12 percent less than in the comparable quarter in 1992. Coal imports from Canada, the second leading source, amounted to 277 thousand short tons, a 9-percent increase over the same quarter a year earlier. The third leading source of U.S. coal imports was Venezuela, with 165 thousand short tons of coal, 80 percent higher than in the second quarter of 1992.

During the first half of 1993, U.S. coal imports totaled 2.3 million short tons, a 34-percent increase from the level in the first half of 1992. Colombia was the leading source of coal imports, followed by Canada, Venezuela, and Indonesia. Together these four countries accounted for 97 percent of total coal imports. Coal imports from Colombia totaled 1 million short tons, a 32-percent increase from the level in the first half of 1992, primarily due to higher coal shipments to the St. Johns River plant in Florida. From January through June 1993, coal imports from Indonesia and Venezuela

also increased significantly, rising 155 and 70 percent, respectively. Most of the increase can be attributed to higher demand for Indonesian coal by a power plant in Hawaii, and for Venezuelan coal by the industrial sector.

Receipts of imported coal at electric utilities in the second quarter of 1993 totaled 478 thousand short tons, 41 thousand short tons more than in the second quarter of 1992. This brought total receipts for the first 6 months of 1993 to 1.3 million short tons, 55 percent above the level for the first 6 months of 1992. This increase can be attributed primarily to higher imported coal receipts at the St. Johns River plant of Jacksonville Electric Authority (JEA). The JEA received 920 thousand short tons of imported coal from Colombia during the first 6 months of 1993, 51 percent more than in the comparable period in 1992.

Coal imports for the second quarter of 1993 were valued at \$35 million, based on an average price of \$32.26 per short ton. This brought the value of coal imports for the first half of 1993 to \$73 million, based on an average price of \$31.44 per short ton.

Table A1. Quantity and Average Price of U.S. Coal Imports, 1985-1993
(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
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
1993	1,213	30.70	1,093	32.26	NA	NA	NA	NA	2,306	31.44

NA Not available.

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, 1985-1993
(Thousand Short Tons and Dollars per Short Ton)

Year and Quarter	Australia	Canada	Colombia	Indonesia	Malaysia	Venezuela	Other Countries	Total
Quantity								
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	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
1993								
January - March	-	174	552	242	-	245	-	1,213
April - June	54	277	475	115	-	165	8	1,093
Total	54	451	1,027	357	-	409	8	2,306
Average Price								
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	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
1993								
January - March	-	22.55	29.06	38.93	-	28.26	-	30.09
April - June	30.65	28.06	28.99	45.69	-	31.63	21.07	31.10
Total	30.65	25.93	29.03	41.10	-	29.62	21.07	30.56

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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
U.S. Total	1,092,554	1,213,120	1,043,357	2,305,674	1,722,191	33.9
Exporting Country: Australia						
Honolulu, HI	53,797	-	18,065	53,797	49,196	9.4
Total	53,797	-	18,065	53,797	49,196	9.4
Exporting Country: Canada						
Chicago, IL	14,644	-	53,420	14,644	110,252	-86.7
Portland, ME	-	-	18	-	18	-
Detroit, MI	58,135	-	-	58,135	-	-
Duluth, MN	87	212	-	299	-	-
Great Falls, MT	12,409	11,141	8,715	23,550	19,069	23.5
Pembina, ND	185,128	151,782	192,632	336,910	378,009	-10.9
Seattle, WA	6,112	11,024	44	17,136	5,064	238.4
Total	276,515	174,159	254,829	450,674	512,412	-12.0
Exporting Country: Colombia						
Tampa, FL	433,792	407,446	459,277	841,238	609,190	38.1
Boston, MA	-	89,276	34,449	89,276	69,130	29.1
Portland, ME	-	-	-	-	30,032	-
Philadelphia, PA	-	27,524	-	27,524	-	-
San Juan, PR	-	27,805	23,479	27,805	50,336	-44.8
Virgin Islands	40,818	-	21,456	40,818	21,456	90.2
Total	474,610	552,051	538,661	1,026,661	780,144	31.6
Exporting Country: Indonesia						
Mobile, AL	-	74,556	-	74,556	-	-
Honolulu, HI	114,606	167,818	140,138	282,424	140,138	101.5
Total	114,606	242,374	140,138	356,980	140,138	154.7
Exporting Country: Venezuela						
Mobile, AL	64,720	66,088	-	130,808	-	-
New Orleans, LA	-	70,272	-	70,272	-	-
Boston, MA	40,787	-	-	40,787	-	-
Portland, ME	24,315	26,479	-	50,794	28,313	79.4
Philadelphia, PA	35,004	-	34,432	35,004	68,776	-49.1
San Juan, PR	-	27,558	27,299	27,558	27,299	.9
Virgin Islands	-	54,139	29,932	54,139	115,912	-53.3
Total	164,826	244,536	91,663	409,362	240,300	70.4
Other Exporting Countries						
New Orleans, LA	7,549	-	-	7,549	-	-
New York City, NY	2	-	-	2	-	-
Philadelphia, PA	-	-	1	-	1	-
Laredo, TX	649	-	-	649	-	-
Total	8,200	-	1	8,200	1	(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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
Total	\$31.10	\$30.09	\$32.28	\$30.56	\$32.46	-5.8
Exporting Country: Australia						
Honolulu, HI	\$30.65	-	\$47.61	\$30.65	\$38.60	-20.6
Total	30.65	-	47.61	30.65	38.60	-20.6
Exporting Country: Canada						
Chicago, IL	-	-	\$28.36	-	\$25.71	-
Detroit, MI	\$44.61	-	-	\$44.61	-	-
Pembina, ND	22.58	\$21.95	25.46	22.30	25.15	-11.3
Seattle, WA	26.34	30.10	-	28.76	34.00	-15.4
Total	26.06	22.55	26.13	25.93	25.37	2.2
Exporting Country: Colombia						
Tampa, FL	\$28.79	\$27.74	\$32.61	\$28.28	\$32.60	-13.8
Boston, MA	-	31.19	34.11	31.19	34.59	-9.8
Portland, ME	-	-	-	-	31.34	-
Philadelphia, PA	-	32.66	-	32.66	-	-
San Juan, PR	-	38.03	38.10	38.03	36.92	3.0
Virgin Islands	31.11	-	32.52	31.11	32.52	-4.4
Total	26.99	29.06	32.94	29.03	33.16	-12.5
Exporting Country: Indonesia						
Mobile, AL	-	\$24.78	-	\$24.78	-	-
Honolulu, HI	\$45.69	45.22	\$37.32	45.41	\$37.32	21.7
Total	45.69	38.93	37.32	41.10	37.32	10.1
Exporting Country: Venezuela						
Mobile, AL	\$34.92	\$27.76	-	\$31.30	-	-
New Orleans, LA	-	26.12	-	26.12	-	-
Boston, MA	27.22	-	-	27.22	-	-
Portland, ME	27.51	27.52	-	27.52	\$45.22	-39.1
Philadelphia, PA	33.57	-	\$34.93	33.57	35.88	-6.4
San Juan, PR	-	27.22	32.20	27.22	32.20	-15.5
Virgin Islands	-	32.52	32.52	32.52	43.39	-25.0
Total	31.63	26.26	33.33	29.62	40.19	-26.3
Other Exporting Countries						
Laredo, TX	\$21.07	-	-	\$21.07	-	-
Total	21.07	-	-	21.07	-	-

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	April - June 1993	January - March 1993	April - June 1992	Year to Date		
				1993	1992	Percent Change
U.S. Total	478,415	780,177	437,160	1,258,592	809,810	55.4
Exporting Country: Canada						
New England Power (NEES), Salem Harbor ...	-	-	-	-	32,800	-
Takoma Dept. of Public Utilities, Steam No.2 ..	5,610	11,680	-	17,290	5,000	245.8
Total	5,610	11,680	-	17,290	37,800	-54.3
Exporting Country: Colombia						
Jacksonville Electric Authority, St Johns River	400,400	519,650	402,760	920,050	609,310	51.0
New England Power (NEES), Brayton Point	-	40,300	-	40,300	-	-
Public Serv Co of New Hampshire, Schiller	24,705	-	-	24,705	30,000	-17.7
Total	425,105	559,950	402,760	985,055	639,310	54.1
Exporting Country: Indonesia						
Mississippi Power (Southern Co), Daniel	-	67,547	-	67,547	-	-
Public Serv Co of Indiana, Gallagher	8,100	-	-	8,100	-	-
Total	8,100	67,547	-	75,647	-	-
Exporting Country: Venezuela						
Gulf Power, Crist	-	66,000	-	66,000	-	-
New England Power (NEES), Brayton Point	-	48,500	34,400	48,500	104,400	-53.5
New England Power (NEES), Salem Harbor ...	39,600	-	-	39,600	-	-
Public Serv Co of New Hampshire, Schiller	-	26,500	-	26,500	28,300	-6.4
Total	39,600	141,000	34,400	180,600	132,700	36.1

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, 1980-1993

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, Crist						
Venezuela 1993 January - March	66.0	13,014	0.54	5.90	221.4	57.63
July - September	70.4	12,976	.58	5.70	141.2	36.64
Total	136.4	12,994	.56	5.80	180.1	46.80
Company and Plant: Gulf Power, Scholtz						
Venezuela 1993 July - September	8.0	12,989	0.57	5.40	172.3	44.76
Total	8.0	12,989	.57	5.40	172.3	44.76

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1993 (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: 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	12,066	.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	11,978	.74	7.36	173.4	41.54
1990	1,007.7	11,938	.74	6.58	171.6	40.96
1991	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
1993						
January - March	519.6	11,903	.70	6.77	135.0	32.13
April - June	400.4	11,814	.68	7.41	142.9	33.75
July - September	200.5	11,819	.70	7.68	135.6	32.04
Total	1,120.6	11,856	.69	7.17	137.9	32.69
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	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
Indonesia						
1993						
January - March	67.5	9,745	.08	1.23	168.9	32.92
Total	67.5	9,745	.08	1.23	168.9	32.92
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
1993						
January - March	40.3	12,237	.64	5.29	166.0	45.52
July - September	27.8	12,098	.60	5.39	137.0	33.16
Total	68.1	12,180	.62	5.33	166.2	40.48
Venezuela						
1990	69.8	12,773	.61	7.39	181.0	46.23
1991	83.7	13,390	.77	7.55	167.3	44.81

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1993 (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: New England Power (NEES), Brayton Point						
Venezuela						
1992						
January - March	70.0	13,495	0.74	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
1993						
January - March	48.5	13,034	.76	8.00	163.6	42.64
July - September	76.0	13,153	.64	7.13	175.9	46.26
Total	124.5	13,106	.68	7.47	171.1	44.85
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
Venezuela						
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
1993						
April - June	39.6	13,052	.56	5.83	186.7	48.74
Total	39.6	13,052	.56	5.83	186.7	48.74
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 Indiana, Gallagher						
Indonesia						
1993						
April - June	8.1	9,235	0.13	1.40	100.7	18.60
July - September	3.0	9,260	.12	1.20	116.0	21.48
Total	11.1	9,242	.13	1.35	104.8	19.38
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

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1993 (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: Public Serv Co of New Hampshire, Schiller						
Colombia						
1992						
January - March	30.0	12,154	0.63	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
1993						
April - June	24.7	12,765	.69	6.60	151.3	38.63
Total	24.7	12,765	.69	6.60	151.3	38.63
Venezuela						
1990	110.2	13,105	.49	4.82	187.7	49.19
1991	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
1993						
January - March	26.5	12,918	.66	4.47	138.9	35.89
July - September	25.2	12,919	.53	7.30	139.8	36.12
Total	51.7	12,919	.60	5.85	139.3	36.00
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	26.9	9,994	0.46	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
1993						
January - March	11.7	10,159	.49	13.00	179.5	36.46
April - June	5.6	9,727	.48	12.40	183.0	35.60
Total	17.3	10,019	.49	12.81	180.6	36.18
Company and Plant: Tampa Electric, Big Bend ²						
Indonesia						
1991	24.3	9,815	0.07	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

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1993 (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: 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
1988	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	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
1993						
January - March	11.7	10,159	.49	13.00	179.5	36.46
April - June	5.6	9,727	.48	12.40	183.0	35.60
Total	17.3	10,019	.49	12.81	180.6	36.18
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
1989	1,148.8	12,099	.70	6.93	178.6	43.22
1990	1,112.5	11,978	.73	6.54	173.4	41.53
1991	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	423.2	12,021	.69	6.48	145.9	35.07
Total	1,504.1	11,938	.70	6.91	150.9	36.04
1993						
January - March	559.9	11,927	.69	6.67	138.7	33.09
April - June	425.1	11,869	.68	7.37	143.4	34.04
July - September	228.3	11,853	.69	7.41	135.7	32.18
Total	1,213.4	11,893	.69	7.05	139.8	33.25
Indonesia						
1991	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
1993						
January - March	67.5	9,745	.08	1.23	168.9	32.92
April - June	8.1	9,235	.13	1.40	100.7	18.60
July - September	3.0	9,260	.12	1.20	116.0	21.48
Total	78.6	9,674	.09	1.25	160.3	31.01

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
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	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	65.4	12,943	.66	7.27	150.1	38.87
Total	240.6	13,206	.69	7.18	164.6	43.49
1993						
January - March	141.0	13,003	.64	6.35	186.1	48.39
April - June	39.6	13,052	.56	5.83	186.7	48.74
July - September	179.6	13,043	.60	6.52	157.2	41.00
Total	360.2	13,028	.61	6.38	171.7	44.74

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, 1980-1993

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: Alabama Power Co (SC), Barry						
1980						
Alabama	490.9	12,267	1.08	12.06	161.5	39.62
Total	490.9	12,267	1.08	12.06	161.5	39.62
1981						
Alabama	293.2	12,199	1.22	12.42	185.2	45.19
Kentucky	376.9	12,306	1.10	10.33	215.9	53.13
Tennessee	249.9	12,662	1.44	9.43	218.6	55.35
Virginia	29.4	12,278	1.09	11.55	214.8	52.73
West Virginia	13.3	11,974	.79	11.19	201.5	48.26
Total	962.7	12,360	1.22	10.78	207.1	51.21
1982						
Alabama	23.4	11,411	.76	12.30	216.4	49.38
Kentucky	19.9	12,434	1.16	9.56	233.4	58.03
Tennessee	2.2	12,948	2.14	8.34	216.7	56.11
Total	45.5	11,934	1.00	10.91	224.1	53.49
1985						
Kentucky	86.3	11,819	.84	11.92	142.5	33.68
Total	86.3	11,819	.84	11.92	142.5	33.68
1986						
Kentucky	38.6	11,943	1.05	13.50	139.8	33.39
Tennessee	124.6	12,486	.77	12.35	138.0	34.47
West Virginia	111.5	12,180	.89	12.24	139.3	33.94
Total	274.7	12,285	.86	12.47	138.8	34.10
1987						
Alabama	533.8	12,509	1.09	11.43	211.5	52.92
Kentucky	79.1	12,007	1.09	11.10	162.8	39.09
Total	612.8	12,444	1.09	11.39	205.5	51.13
1988						
Alabama	639.5	12,584	.91	10.66	205.0	51.60
Kentucky	12.6	11,977	.90	10.20	140.6	33.68
Tennessee	12.2	12,540	.93	11.30	140.6	35.26
Total	664.4	12,571	.91	10.66	202.7	50.96
1989						
Alabama	653.0	12,556	.88	11.32	211.7	53.17
Kentucky	90.7	12,110	.90	10.61	147.0	35.61
Tennessee	124.0	12,364	.77	11.66	152.1	37.61
West Virginia	12.7	11,645	.83	14.30	161.5	37.61
Total	880.4	12,470	.87	11.34	196.3	48.95
1990						
Alabama	799.7	12,512	.94	11.49	207.7	51.97
Total	799.7	12,512	.94	11.49	207.7	51.97
1991						
Alabama	594.0	12,361	.97	11.32	210.7	52.09
Total	594.0	12,361	.97	11.32	210.7	52.09
1992						
Alabama	815.8	12,322	.92	11.25	214.6	52.88
West Virginia	15.8	11,744	1.08	13.77	132.4	31.10
Total	831.6	12,311	.93	11.30	213.1	52.46
1993						
January - March						
Alabama	174.2	12,127	.93	11.17	213.3	51.74
Total	174.2	12,127	.93	11.17	213.3	51.74
April - June						
Alabama	275.8	12,237	.92	11.46	207.5	50.78
Total	275.8	12,237	.92	11.46	207.5	50.78
July - September						
Alabama	75.8	12,144	.95	12.25	210.3	51.08
Total	75.8	12,144	.95	12.25	210.3	51.08
Year to Date						
Alabama	525.8	12,187	.93	11.48	209.8	51.14
Total	525.8	12,187	.93	11.48	209.8	51.14
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

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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, Brandon Shores						
1985						
Kentucky	273.0	13,020	0.71	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						
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
1993						
January - March						
Kentucky	104.0	12,958	.72	7.48	156.0	40.44
West Virginia	430.0	12,613	.66	9.98	150.1	37.86
Total	534.0	12,680	.67	9.49	151.3	38.36
April - June						
Kentucky	230.0	12,978	.69	7.57	154.2	40.03
West Virginia	535.0	12,643	.68	9.81	151.6	38.33
Total	765.0	12,743	.68	9.13	152.4	38.84
July - September						
Kentucky	71.0	12,788	.72	8.16	152.9	39.09
West Virginia	68.0	12,671	.67	9.93	152.8	38.72
Total	139.0	12,731	.70	9.03	152.8	38.91
Year to Date						
Kentucky	405.0	12,940	.71	7.65	154.5	39.97
West Virginia	1,033.0	12,632	.67	9.89	151.0	38.16
Total	1,438.0	12,719	.68	9.26	152.0	38.67
Company and Plant: Baltimore Gas and Electric, Crane						
1980						
Maryland	7.0	11,607	1.99	17.27	171.7	39.86
Pennsylvania	112.0	12,636	2.02	10.73	161.8	40.90
West Virginia	26.0	13,410	2.21	7.72	155.3	41.64
Total	145.0	12,725	2.05	10.50	161.0	40.98
1983						
Pennsylvania	63.0	13,209	1.96	9.36	166.3	43.92
West Virginia	477.0	13,317	2.11	7.88	169.1	45.03
Total	540.0	13,304	2.09	8.06	168.8	44.90
1984						
Ohio	7.0	12,406	2.34	9.00	202.4	50.22
Pennsylvania	108.0	12,961	1.87	8.23	182.3	47.26
West Virginia	612.0	13,331	2.28	7.64	168.3	44.86
Total	727.0	13,267	2.22	7.74	170.6	45.27

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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, Crane						
1985						
Pennsylvania	93.0	13,213	1.80	8.76	172.3	45.53
West Virginia	352.0	13,302	1.77	7.52	170.9	45.47
Total	445.0	13,283	1.78	7.78	171.2	45.48
1986						
Pennsylvania	116.0	12,930	1.81	9.18	170.9	44.19
West Virginia	455.0	13,281	2.07	7.33	166.6	44.24
Total	571.0	13,209	2.02	7.71	167.4	44.23
1987						
Ohio	7.0	12,738	1.77	7.40	161.3	41.06
Pennsylvania	35.0	13,093	1.77	8.82	161.5	42.30
West Virginia	612.0	13,327	2.16	7.07	157.2	41.90
Total	654.0	13,308	2.13	7.17	157.5	41.92
1988						
Pennsylvania	7.0	13,191	1.95	9.60	154.4	40.73
West Virginia	625.0	13,309	2.19	7.05	156.3	41.59
Total	632.0	13,307	2.19	7.08	156.2	41.58
1989						
Kentucky	70.0	13,078	1.12	5.02	224.1	58.61
Pennsylvania	36.0	12,911	2.05	8.36	159.3	41.13
West Virginia	359.0	13,323	2.27	7.10	152.7	40.69
Total	465.0	13,254	2.08	6.89	163.8	43.42
1990						
Ohio	7.0	12,750	2.27	6.90	165.5	42.20
Pennsylvania	44.0	12,902	2.17	8.44	163.1	42.08
Virginia	14.0	14,383	.71	4.10	184.3	53.02
West Virginia	675.0	13,295	2.20	7.23	154.3	41.03
Total	740.0	13,287	2.17	7.24	155.5	41.33
1991						
Ohio	7.0	12,080	1.90	9.50	166.8	40.30
Pennsylvania	139.0	13,340	2.14	7.28	144.1	38.46
West Virginia	302.0	13,367	2.16	6.97	148.8	39.78
Total	448.0	13,338	2.15	7.10	147.6	39.38
1992						
Pennsylvania	234.0	13,309	2.14	7.26	140.8	37.47
Virginia	78.0	14,076	.80	5.05	169.9	47.84
West Virginia	413.0	13,410	2.20	6.46	141.7	38.00
Total	725.0	13,449	2.03	6.57	144.6	38.89
1993						
January - March						
Pennsylvania	53.0	13,307	2.07	6.86	139.1	37.02
West Virginia	118.0	13,372	2.03	6.72	139.5	37.31
Total	171.0	13,352	2.04	6.78	139.4	37.22
April - June						
Kentucky	15.0	13,271	.95	0.31	177.4	47.09
Virginia	7.0	13,207	.74	9.20	161.1	42.55
West Virginia	111.0	13,379	2.07	7.07	134.9	36.10
Total	133.0	13,358	1.88	7.09	141.0	37.68
July - September						
Kentucky	29.0	13,425	1.17	5.75	176.1	47.28
Pennsylvania	8.0	12,468	2.06	10.90	167.8	41.84
West Virginia	29.0	13,215	2.16	7.45	139.7	36.92
Total	66.0	13,217	1.71	7.12	159.1	42.07
Year to Date						
Kentucky	44.0	13,373	1.09	5.94	176.5	47.22
Pennsylvania	61.0	13,197	2.07	7.39	142.7	37.66
Virginia	7.0	13,207	.74	9.20	161.1	42.55
West Virginia	258.0	13,358	2.06	6.95	137.5	36.74
Total	370.0	13,330	1.92	6.95	143.5	38.25
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

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
1981						
Pennsylvania	194.0	13,152	0.90	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
1982						
Pennsylvania	22.0	12,333	.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						
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
1993						
January - March						
West Virginia	173.0	12,974	.85	8.20	157.8	40.93
Total	173.0	12,974	.85	8.20	157.8	40.93
April - June						
West Virginia	193.0	13,027	.85	8.19	155.0	40.38
Total	193.0	13,027	.85	8.19	155.0	40.38
July - September						
West Virginia	57.0	13,107	.85	8.15	156.9	41.14
Total	57.0	13,107	.85	8.15	156.9	41.14
Year to Date						
West Virginia	423.0	13,017	.85	8.19	156.4	40.71
Total	423.0	13,017	.85	8.19	156.4	40.71
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

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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						
1983						
Colorado	1,952.3	10,710	0.35	5.39	245.6	52.61
Total	1,952.3	10,710	.35	5.39	245.6	52.61
1984						
Colorado	1,519.6	10,837	.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						
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
1993						
January - March						
Colorado	406.0	10,590	.40	6.08	212.1	44.93
Total	406.0	10,590	.40	6.08	212.1	44.93
April - June						
Colorado	342.2	10,452	.39	6.25	212.2	44.37
Total	342.2	10,452	.39	6.25	212.2	44.37
July - September						
Colorado	127.2	10,770	.40	6.21	199.5	42.97
Total	127.2	10,770	.40	6.21	199.5	42.97
Year to Date						
Colorado	875.4	10,562	.39	6.17	210.3	44.42
Total	875.4	10,562	.39	6.17	210.3	44.42
Company and Plant: Florida Power Corp, Ceredo Transfer						
1993						
April - June						
Kentucky	10.1	12,171	1.07	9.43	132.4	32.23
Total	10.1	12,171	1.07	9.43	132.4	32.23
Year to Date						
Kentucky	10.1	12,171	1.07	9.43	132.4	32.23
Total	10.1	12,171	1.07	9.43	132.4	32.23
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

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
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
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	9.83	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	.83	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	42.64
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

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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						
Kentucky	3,058.0	12,746	0.85	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
1993						
January - March						
Kentucky	543.4	12,784	.80	7.97	173.8	44.44
Virginia	182.0	12,333	.72	9.70	217.3	53.60
Total	725.4	12,671	.78	8.41	184.4	46.74
April - June						
Kentucky	655.8	12,676	.84	8.51	173.3	43.95
Virginia	231.4	12,431	.72	9.20	209.9	52.18
Total	887.2	12,612	.81	8.69	182.7	46.09
July - September						
Kentucky	227.4	12,685	.86	8.37	172.9	43.85
Virginia	112.2	12,363	.71	9.41	215.5	53.28
Total	339.6	12,579	.81	8.72	186.7	46.97
Year to Date						
Kentucky	1,426.6	12,719	.83	8.28	173.5	44.12
Virginia	525.6	12,383	.72	9.42	213.6	52.90
Total	1,952.2	12,628	.80	8.59	184.1	46.49
Company and Plant: Florida Power Corp, IMT Transfer						
1992						
Kentucky	1,183.1	12,423	0.86	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
1993						
January - March						
Kentucky	128.0	12,505	.88	8.79	164.5	41.15
West Virginia	43.4	12,477	.66	8.34	170.5	42.56
Total	171.5	12,498	.82	8.68	166.1	41.51
April - June						
Kentucky	177.2	12,504	.87	9.47	161.6	40.42
West Virginia	99.5	12,624	.68	8.94	168.1	42.45
Total	276.7	12,547	.80	9.28	164.0	41.15
July - September						
Kentucky	69.1	12,424	.92	10.20	163.8	40.71
West Virginia	38.8	12,582	.71	9.37	159.2	40.07
Total	107.9	12,481	.84	9.90	162.2	40.48
Year to Date						
Kentucky	374.4	12,490	.88	9.37	163.0	40.72
West Virginia	181.7	12,580	.68	8.89	166.8	41.97
Total	556.1	12,519	.82	9.21	164.3	41.13
Company and Plant: Florida Power Corp, TTI Transfer						
1992						
Kentucky	316.2	12,338	0.93	7.89	140.8	34.74
Total	316.2	12,338	.93	7.89	140.8	34.74
1993						
January - March						
Kentucky	26.7	12,392	.94	9.10	125.5	31.11
Total	26.7	12,392	.94	9.10	125.5	31.11
April - June						
Kentucky	86.2	12,498	.85	8.72	127.0	31.74
Total	86.2	12,498	.85	8.72	127.0	31.74
Year to Date						
Kentucky	113.0	12,473	.87	8.81	126.6	31.59
Total	113.0	12,473	.87	8.81	126.6	31.59
Company and Plant: Gulf Power, Crist						
1980						
Alabama	294.8	12,204	1.71	11.82	195.5	47.71
Illinois	1,113.6	11,785	2.71	10.10	177.3	41.78
Kentucky	275.5	12,291	2.61	9.00	150.0	36.88

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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, Crist						
1980						
Oklahoma	28.7	12,519	2.83	11.36	147.6	36.96
Total	1,712.6	11,951	2.52	10.24	175.4	41.93
1981						
Alabama	387.0	12,145	1.92	12.06	178.5	43.35
Illinois	710.5	11,980	2.86	9.93	197.6	47.34
Indiana	26.0	12,484	2.32	8.80	155.8	38.90
Kentucky	997.6	12,270	2.70	8.70	171.3	42.03
Oklahoma	25.8	12,574	2.76	11.24	185.7	46.71
Total	2,146.9	12,158	2.61	9.74	181.1	44.04
1982						
Alabama	149.6	12,067	1.81	12.72	193.9	46.78
Illinois	878.6	11,912	2.69	10.45	210.2	50.07
Kentucky	376.2	12,411	2.62	8.92	188.7	46.84
Oklahoma	13.3	12,602	3.06	9.87	184.3	46.45
Total	1,417.7	12,067	2.58	10.28	202.3	48.83
1983						
Alabama	31.8	12,508	1.80	10.24	237.1	59.31
Illinois	1,039.9	11,969	2.63	10.05	216.8	51.90
Kentucky	471.4	12,348	2.65	9.29	191.6	47.32
Total	1,543.1	12,096	2.61	9.82	209.4	50.66
1984						
Illinois	1,249.4	11,983	2.86	9.71	227.2	54.46
Kentucky	592.5	12,330	2.83	9.23	191.1	47.12
Total	1,841.9	12,095	2.85	9.56	215.4	52.10
1985						
Illinois	1,354.6	12,029	2.79	9.71	226.5	54.48
Kentucky	445.5	12,418	2.81	9.00	191.0	47.43
Total	1,800.1	12,125	2.80	9.53	217.5	52.74
1986						
Alabama	25.4	12,584	2.76	10.03	121.1	30.48
Illinois	1,282.4	12,028	2.82	9.50	222.9	53.63
Kentucky	388.6	12,228	2.89	8.95	129.5	31.68
Total	1,696.4	12,083	2.84	9.38	199.7	48.25
1987						
Alabama	88.1	12,109	2.81	11.43	108.5	26.28
Illinois	1,145.9	12,070	2.85	9.55	218.7	52.80
Kentucky	832.5	12,441	2.98	9.43	118.3	29.42
Total	2,066.5	12,221	2.90	9.58	172.9	42.26
1988						
Alabama	140.0	11,947	2.87	11.94	113.6	27.14
Illinois	1,453.1	12,136	2.82	8.73	197.3	47.90
Kentucky	900.8	12,419	3.02	9.64	119.9	29.79
West Virginia	23.8	12,710	2.49	8.10	173.4	44.08
Total	2,517.7	12,232	2.78	9.22	164.4	40.23
1989						
Alabama	12.9	11,802	3.01	13.94	114.3	26.98
Illinois	1,274.3	12,021	2.73	9.29	203.3	48.89
Kentucky	476.4	12,160	2.98	8.40	125.9	30.62
West Virginia	44.6	13,298	2.59	6.24	179.3	47.69
Total	1,808.2	12,087	2.80	9.02	181.5	43.89
1990						
Illinois	1,352.1	12,009	2.76	8.77	214.3	51.47
Kentucky	720.8	12,014	2.89	7.49	139.8	33.60
West Virginia	35.3	13,459	2.72	6.30	197.4	53.13
Total	2,108.2	12,035	2.81	8.29	188.6	45.39
1991						
Illinois	1,265.5	11,977	2.68	8.67	205.1	49.12
Kentucky	607.5	12,048	2.81	8.06	129.2	31.13
Total	1,873.0	12,000	2.72	8.47	180.4	43.29
1992						
Alabama	71.9	12,060	2.75	12.94	120.6	29.09
Illinois	1,779.8	11,926	2.70	8.37	180.8	43.12
Kentucky	225.8	12,062	2.73	8.38	121.4	29.28
Total	2,077.5	11,945	2.71	8.53	172.2	41.13

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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, Crist						
1993						
January - March						
Illinois	597.5	11,930	2.63	8.29	168.6	40.23
Kentucky	41.9	12,173	2.64	9.31	123.3	30.01
Venezuela	66.0	13,014	.54	5.90	221.4	57.63
Total	705.4	12,046	2.43	8.12	171.2	41.25
April - June						
Illinois	569.1	11,990	2.62	8.16	173.2	41.53
Kentucky	13.3	11,983	2.66	9.20	124.6	29.86
West Virginia	8.2	13,257	2.79	6.62	223.4	59.24
Total	590.6	12,007	2.62	8.16	172.9	41.52
July - September						
Illinois	93.5	12,045	2.86	8.66	212.8	51.27
Venezuela	70.4	12,976	.58	5.70	141.2	36.64
Total	163.9	12,445	1.88	7.39	180.8	44.99
Year to Date						
Illinois	1,260.1	11,965	2.64	8.26	174.0	41.64
Kentucky	55.2	12,127	2.65	9.20	123.6	29.98
West Virginia	8.2	13,257	2.79	6.62	223.4	59.24
Venezuela	136.4	12,994	.56	5.80	180.1	46.80
Total	1,459.9	12,075	2.45	8.06	173.0	41.78
Company and Plant: Gulf Power, Scholtz						
1980						
Alabama	170.6	12,163	3.13	12.14	190.3	46.30
Total	170.6	12,163	3.13	12.14	190.3	46.30
1981						
Alabama	143.5	12,093	3.04	12.46	209.1	50.56
Total	143.5	12,093	3.04	12.46	209.1	50.56
1982						
Alabama	90.8	12,293	3.12	11.59	223.8	55.03
Total	90.8	12,293	3.12	11.59	223.8	55.03
1983						
Alabama	65.3	12,701	2.94	8.78	227.5	57.78
Illinois	29.2	11,719	2.95	9.64	228.4	53.54
Total	94.5	12,397	2.94	9.04	227.8	56.47
1984						
Alabama	171.5	12,420	2.94	10.35	212.9	52.88
Kentucky	6.3	12,203	3.45	12.30	193.3	47.18
Total	177.8	12,412	2.96	10.42	212.2	52.67
1985						
Alabama	27.3	11,868	2.73	11.54	219.6	52.12
Kentucky	246.5	12,283	3.02	10.08	190.3	46.74
Total	273.8	12,241	2.99	10.23	193.1	47.28
1986						
Alabama	26.4	12,184	2.81	11.80	132.9	32.38
Kentucky	325.7	12,427	2.96	9.74	162.5	40.39
Total	352.1	12,409	2.95	9.90	160.3	39.79
1987						
Alabama	81.7	12,183	2.92	11.27	131.4	32.02
Kentucky	236.1	12,521	2.77	8.59	138.0	34.55
Total	317.8	12,434	2.81	9.28	136.3	33.90
1988						
Alabama	5.6	12,304	2.99	12.20	131.3	32.31
Kentucky	295.6	12,510	2.84	8.47	138.8	34.73
Total	301.2	12,506	2.84	8.54	138.7	34.69
1989						
Kentucky	340.6	12,428	2.79	8.45	146.6	36.44
Total	340.6	12,428	2.79	8.45	146.6	36.44
1990						
Kentucky	236.2	12,347	2.78	8.35	159.9	39.49
Total	236.2	12,347	2.78	8.35	159.9	39.49
1991						
Kentucky	67.9	12,685	2.86	7.08	151.3	38.39
Total	67.9	12,685	2.86	7.08	151.3	38.39

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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, Scholtz						
1992						
Kentucky	31.7	12,192	3.06	8.84	148.7	36.27
Total	31.7	12,192	3.06	8.84	148.7	36.27
1993						
April - June						
Kentucky	14.3	12,120	3.02	8.80	156.5	37.93
Total	14.3	12,120	3.02	8.80	156.5	37.93
July - September						
Kentucky	9.5	12,053	3.01	8.80	160.4	38.67
Venezuela	8.0	12,989	.57	5.40	172.3	44.76
Total	17.5	12,461	1.89	7.25	166.1	41.45
Year to Date						
Kentucky	23.8	12,093	3.02	8.80	158.0	38.22
Venezuela	8.0	12,989	.57	5.40	172.3	44.76
Total	31.8	12,319	2.40	7.94	161.8	39.87
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	11,886	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
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	36.73
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	.76	9.12	192.1	46.40

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
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						
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
1993						
January - March						
Illinois	214.0	11,816	2.31	8.12	147.8	34.94
Kentucky	10.8	12,408	2.96	9.76	118.9	29.51
Total	224.8	11,845	2.34	8.20	146.4	34.68
April - June						
Illinois	250.6	11,916	2.49	8.50	189.4	45.15
Kentucky	5.1	11,973	2.96	8.80	127.7	30.58
Total	255.7	11,918	2.50	8.50	188.2	44.86
July - September						
Illinois	65.5	12,068	2.18	7.85	205.6	49.61
Total	65.5	12,068	2.18	7.85	205.6	49.61
Year to Date						
Illinois	530.1	11,895	2.38	8.26	174.8	41.58
Kentucky	15.9	12,269	2.96	9.45	121.7	29.85
Total	546.0	11,906	2.40	8.30	173.2	41.24
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	11,846	.56	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	968.4	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						
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

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
1993						
January - March						
Kentucky	347.1	12,831	1.35	8.50	166.9	42.83
West Virginia	149.6	12,035	.72	12.53	187.7	45.17
Colombia	519.6	11,903	.70	6.77	135.0	32.13
Total	1,016.4	12,239	.92	8.21	154.0	37.70
April - June						
Kentucky	356.0	12,817	1.27	8.30	176.4	45.22
West Virginia	93.4	12,071	.79	13.20	187.6	45.28
Colombia	400.4	11,814	.68	7.41	142.9	33.75
Total	849.8	12,262	.94	8.42	162.4	39.82
July - September						
Kentucky	104.1	12,735	1.25	8.61	176.1	44.85
Colombia	200.5	11,819	.70	7.68	135.6	32.04
Total	304.6	12,132	.89	8.00	150.1	36.42
Year to Date						
Kentucky	807.2	12,812	1.30	8.43	172.3	44.14
West Virginia	243.0	12,049	.75	12.79	187.6	45.21
Colombia	1,120.6	11,856	.69	7.17	137.9	32.69
Total	2,170.8	12,233	.92	8.26	156.8	38.35
Company and Plant: Montaup Electric, Somerset						
1983						
Virginia	19.0	13,659	0.88	3.90	211.3	57.72
West Virginia	383.0	14,069	.79	3.65	207.6	58.40
Total	402.0	14,049	.79	3.66	207.7	58.37
1984						
Kentucky	130.5	13,186	.88	4.66	228.6	60.28
Virginia	218.4	13,173	1.16	7.31	216.2	56.95
West Virginia	26.5	12,771	1.03	8.45	214.8	54.86
Total	375.4	13,149	1.06	6.47	220.4	57.96
1985						
Virginia	501.0	13,364	1.20	7.14	201.5	53.86
Total	501.0	13,364	1.20	7.14	201.5	53.86
1986						
Virginia	389.3	13,298	1.15	6.75	189.0	50.26
Total	389.3	13,298	1.15	6.75	189.0	50.26
1987						
Virginia	505.8	13,373	1.17	6.92	169.3	45.27
Total	505.8	13,373	1.17	6.92	169.3	45.27
1988						
Virginia	464.8	13,331	1.16	6.86	171.3	45.67
Total	464.8	13,331	1.16	6.86	171.3	45.67
1989						
Virginia	524.5	13,170	1.14	7.06	173.4	45.67
Total	524.5	13,170	1.14	7.06	173.4	45.67
1990						
Virginia	411.0	13,096	1.15	7.16	181.5	47.53
Total	411.0	13,096	1.15	7.16	181.5	47.53
1991						
Virginia	283.7	12,910	1.10	7.93	182.3	47.07
Total	283.7	12,910	1.10	7.93	182.3	47.07
1992						
Virginia	413.0	12,917	1.03	7.93	176.4	45.58
Total	413.0	12,917	1.03	7.93	176.4	45.58
1993						
January - March						
Kentucky	29.1	12,706	.66	8.10	183.6	46.65
Total	29.1	12,706	.66	8.10	183.6	46.65
Year to Date						
Kentucky	29.1	12,706	.66	8.10	183.6	46.65
Total	29.1	12,706	.66	8.10	183.6	46.65

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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), Watson						
1980						
Alabama	656.6	12,248	2.44	13.36	173.6	42.51
Illinois	488.6	12,265	2.69	9.08	107.7	26.42
Kentucky	645.9	11,796	2.61	9.03	150.0	35.39
Total	1,791.1	12,090	2.57	10.63	147.0	35.56
1981						
Alabama	348.3	12,579	2.41	12.86	202.1	50.84
Illinois	187.0	12,385	2.74	8.71	157.3	38.97
Kentucky	290.1	11,774	2.61	8.10	175.7	41.37
Total	825.4	12,252	2.56	10.25	182.9	44.82
1982						
Alabama	517.9	12,322	2.38	12.10	216.6	53.37
Illinois	291.8	12,203	2.68	9.02	169.1	41.26
Kentucky	490.1	12,259	2.71	8.19	174.3	42.73
Total	1,299.8	12,272	2.57	9.93	190.0	46.64
1983						
Alabama	556.3	12,324	2.38	11.83	208.5	51.40
Illinois	147.3	12,420	2.91	8.65	179.0	44.46
Kentucky	360.8	12,417	2.64	8.50	184.0	45.70
Total	1,064.5	12,369	2.54	10.26	196.1	48.51
1984						
Alabama	1,018.3	12,321	2.46	12.02	195.1	48.07
Colorado	9.7	11,575	.62	8.90	297.9	68.96
Illinois	235.6	12,058	2.56	9.12	181.3	43.72
Kentucky	435.0	12,341	2.72	8.35	183.8	45.36
Total	1,698.6	12,285	2.53	10.66	190.8	46.89
1985						
Alabama	969.7	12,304	2.48	12.05	204.0	50.20
Illinois	172.8	11,999	2.49	9.26	186.0	44.63
Kentucky	262.6	12,259	2.43	8.54	185.4	45.46
Ohio	4.6	12,644	2.58	10.00	183.4	46.38
Oklahoma	9.2	12,649	3.19	10.90	181.8	45.99
Pennsylvania	9.6	12,102	2.38	11.70	216.0	52.28
Tennessee	18.3	12,063	2.24	10.62	221.9	53.53
West Virginia	33.5	12,862	2.74	9.23	194.5	50.02
Total	1,480.4	12,272	2.48	11.00	198.5	48.72
1986						
Alabama	287.1	12,416	2.40	10.79	182.4	45.28
Illinois	335.5	12,199	2.50	8.51	174.8	42.64
Kentucky	1,003.5	12,325	2.41	7.38	180.3	44.45
Ohio	128.3	12,317	2.39	9.69	174.3	42.93
Tennessee	74.3	12,810	2.41	9.47	200.7	51.41
West Virginia	169.7	12,272	2.32	6.74	184.4	45.27
Total	1,998.5	12,330	2.41	8.22	180.4	44.50
1987						
Alabama	37.4	12,604	2.35	11.26	152.6	38.48
Illinois	693.7	12,238	2.42	8.42	171.6	42.00
Kentucky	693.2	12,296	2.47	7.49	169.5	41.69
Ohio	48.0	12,340	2.27	9.55	166.1	41.00
West Virginia	118.8	12,246	2.45	6.87	177.8	43.54
Total	1,591.2	12,276	2.44	8.00	170.5	41.87
1988						
Alabama	16.0	12,554	2.45	11.20	153.0	38.41
Illinois	840.5	12,406	2.45	8.16	160.2	39.76
Kentucky	821.4	12,231	2.52	7.54	164.4	40.20
West Virginia	136.8	12,222	2.49	7.12	180.3	44.07
Total	1,814.7	12,314	2.49	7.83	163.5	40.27
1989						
Illinois	1,116.1	12,600	2.51	8.22	146.7	36.97
Kentucky	474.8	12,278	2.25	7.32	137.1	33.66
West Virginia	27.0	12,132	1.57	9.16	143.4	34.79
Total	1,617.9	12,498	2.42	7.97	143.9	35.96
1990						
Illinois	1,131.0	12,506	2.55	8.38	151.1	37.79
Indiana	23.5	11,616	4.84	8.26	126.0	29.27
Kentucky	769.2	12,023	2.34	7.26	147.7	35.51
Total	1,923.7	12,302	2.49	7.93	149.4	36.77

See footnotes a. the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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), Watson						
1991						
Illinois	1,339.7	12,586	2.69	8.49	145.9	36.72
Kentucky	179.5	11,988	2.60	8.20	130.9	31.40
Total	1,519.2	12,515	2.68	8.46	144.2	36.09
1992						
Illinois	1,238.7	12,757	2.74	8.75	132.7	33.86
Kentucky	248.5	12,208	2.50	8.08	130.5	31.87
Total	1,487.2	12,665	2.70	8.64	132.4	33.53
1993						
January - March						
Illinois	236.1	12,667	2.56	8.53	135.1	34.22
Kentucky	18.2	11,729	2.48	9.14	134.5	31.55
Total	254.2	12,600	2.56	8.57	135.0	34.03
April - June						
Illinois	332.6	12,694	2.74	9.17	133.1	33.79
Kentucky	157.1	12,163	1.00	8.62	141.9	34.52
Total	489.6	12,523	2.18	9.00	135.8	34.02
July - September						
Illinois	78.6	12,706	2.82	9.18	133.7	33.98
Kentucky	30.3	12,200	.95	8.36	141.8	34.60
Total	108.9	12,565	2.30	8.95	135.9	34.15
Year to Date						
Illinois	647.2	12,685	2.69	8.94	133.9	33.97
Kentucky	205.5	12,130	1.12	8.63	141.3	34.27
Total	852.8	12,551	2.31	8.86	135.6	34.04
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
1981						
Colorado	755.6	11,579	.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	42.35
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

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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						
1989						
Kentucky	1,105.2	13,031	0.71	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						
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
1993						
January - March						
Kentucky	139.1	12,987	.73	7.37	175.7	45.64
Montana	36.0	9,444	.37	4.40	162.2	30.64
Indonesia	67.5	9,745	.08	1.23	168.9	32.92
Total	242.6	11,559	.49	5.22	172.5	39.87
April - June						
Colorado	33.4	11,125	.40	9.50	157.6	35.07
Kentucky	240.5	12,887	.69	8.21	172.7	44.51
Montana	141.7	9,420	.40	4.66	158.3	29.82
Total	415.6	11,563	.57	7.10	167.5	38.74
July - September						
Kentucky	87.5	12,937	.70	7.93	173.7	44.94
Total	87.5	12,937	.70	7.93	173.7	44.94
Year to Date						
Colorado	33.4	11,125	.40	9.50	157.6	35.07
Kentucky	467.1	12,926	.70	7.91	173.8	44.93
Montana	177.7	9,425	.39	4.61	159.1	29.99
Indonesia	67.5	9,745	.08	1.23	168.9	32.92
Total	745.7	11,723	.56	6.59	169.9	39.84
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

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
1985						
Pennsylvania	142.3	13,250	1.35	6.48	186.7	49.48
Virginia	895.0	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	7.84	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
1991						
Kentucky	.5	12,970	.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						
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
1993						
January - March						
West Virginia	441.9	12,850	1.13	9.04	167.7	43.10
Colombia	40.3	12,237	.64	5.29	186.0	45.52
Venezuela	48.5	13,034	.76	8.00	163.6	42.64
Total	530.7	12,821	1.06	8.66	168.6	43.24
April - June						
Kentucky	40.0	12,670	.52	6.10	169.9	43.04
West Virginia	516.7	13,081	1.10	8.36	166.3	43.51
Total	556.7	13,052	1.05	8.20	166.6	43.48
July - September						
West Virginia	54.5	13,158	.86	8.09	170.0	44.74
Colombia	27.8	12,098	.60	5.39	137.0	33.16
Venezuela	76.0	13,153	.64	7.13	175.9	46.26
Total	158.3	12,969	.71	7.16	167.5	43.44

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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						
1993						
Year to Date						
Kentucky	40.0	12,670	0.52	6.10	169.9	43.04
West Virginia	1,013.1	12,985	1.10	8.65	167.1	43.40
Colombia	68.1	12,180	.62	5.33	166.2	40.48
Venezuela	124.5	13,106	.68	7.47	171.1	44.85
Total	1,245.7	12,943	1.01	6.26	167.5	43.37
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
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						
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
Venezuela	34.8	12,893	.58	7.02	145.3	37.47
Total	870.9	13,140	1.41	9.04	166.3	43.70

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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						
1993						
January - March						
West Virginia	239.0	13,028	1.35	9.49	168.6	43.94
Total	239.0	13,028	1.35	9.49	168.6	43.94
April - June						
West Virginia	199.8	12,963	1.17	9.80	166.2	43.08
Venezuela	39.6	13,052	.56	5.83	186.7	48.74
Total	239.4	12,978	1.07	9.15	169.6	44.02
July - September						
West Virginia	64.4	13,129	1.40	9.58	165.4	43.43
Total	64.4	13,129	1.40	9.58	165.4	43.43
Year to Date						
West Virginia	503.2	13,015	1.28	9.62	167.2	43.53
Venezuela	39.6	13,052	.56	5.83	186.7	48.74
Total	542.8	13,018	1.23	9.35	168.7	43.91
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
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	11.8	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

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
1992						
Kentucky	41.4	12,143	0.84	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
1993						
January - March						
Ohio	323.9	12,100	3.77	11.04	95.8	23.18
Pennsylvania	14.3	11,782	3.15	12.74	89.6	21.11
Total	338.2	12,087	3.74	11.12	95.5	23.09
April - June						
Kentucky	6.1	12,223	.88	10.70	110.4	26.99
Ohio	290.6	12,136	3.48	11.62	104.1	25.26
Pennsylvania	26.5	11,952	3.49	12.50	88.3	21.11
Total	323.2	12,123	3.44	11.67	102.9	24.95
July - September						
Ohio	100.2	12,098	3.53	11.59	104.2	25.22
Total	100.2	12,098	3.53	11.59	104.2	25.22
Year to Date						
Kentucky	6.1	12,223	.88	10.70	110.4	26.99
Ohio	714.7	12,114	3.62	11.35	100.3	24.31
Pennsylvania	40.8	11,893	3.37	12.58	88.8	21.11
Total	761.6	12,103	3.58	11.41	99.8	24.16
Company and Plant: Public Serv Co of Indiana, Gallagher						
1980						
Indiana	929.8	10,979	2.97	9.67	102.2	22.44
Kentucky	1.5	11,066	3.10	9.90	77.2	17.09
Total	931.3	10,979	2.97	9.67	102.2	22.43
1981						
Illinois	20.6	10,492	4.49	18.31	124.7	26.17
Indiana	876.9	10,829	3.01	10.07	109.5	23.71
Kentucky	31.1	10,788	2.79	10.49	127.3	27.46
Ohio	1.5	10,432	3.73	16.70	148.6	31.00
Total	930.1	10,820	3.03	10.28	110.5	23.90
1982						
Indiana	786.3	10,941	3.16	9.43	120.4	26.35
Kentucky	1.2	10,910	2.73	8.20	118.0	25.75
Total	787.5	10,941	3.15	9.43	120.4	26.35
1983						
Illinois	3.1	10,816	3.15	9.30	91.9	19.88
Indiana	1,185.0	10,926	3.09	9.52	119.2	26.05
Total	1,188.1	10,925	3.09	9.52	119.1	26.03
1984						
Illinois	219.3	12,139	2.90	9.22	121.4	29.46
Indiana	1,111.6	10,892	2.96	9.74	122.8	26.75
Kentucky	465.2	12,118	3.48	11.36	123.1	29.84
Total	1,796.1	11,362	3.09	10.09	122.7	27.88
1985						
Illinois	155.7	12,316	2.94	9.78	134.6	33.16
Indiana	491.0	10,964	3.07	9.38	140.4	30.78
Kentucky	275.5	12,174	3.50	11.54	127.0	30.92
Total	922.2	11,554	3.17	10.09	135.1	31.22
1986						
Illinois	212.7	11,921	2.89	10.78	137.9	32.88
Indiana	474.6	11,024	3.09	9.23	144.8	31.93
Kentucky	92.9	12,212	3.48	11.94	129.4	31.60
Total	780.2	11,410	3.08	9.97	140.9	32.15
1987						
Illinois	751.3	11,677	2.66	10.63	144.5	33.75
Indiana	167.9	11,037	3.00	9.06	149.0	32.89
Kentucky	45.6	12,790	2.50	9.50	120.7	30.89
Total	964.8	11,619	2.71	10.30	144.0	33.46

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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 Indiana, Gallagher						
1988						
Illinois	203.4	11,674	2.61	10.37	147.0	34.31
Indiana	635.6	11,188	2.35	8.39	127.8	28.60
Kentucky	61.2	12,538	2.41	10.17	124.1	31.11
Total	900.2	11,389	2.41	8.96	132.0	30.06
1989						
Indiana	881.0	10,938	2.32	9.19	133.7	29.25
Kentucky	2.9	10,495	2.48	12.40	146.2	30.69
Total	883.9	10,937	2.32	9.20	133.7	29.25
1990						
Indiana	1,050.4	10,943	2.34	9.01	135.5	29.66
Kentucky	19.7	11,132	2.51	9.33	116.4	25.93
Ohio	20.1	11,629	2.55	13.50	119.5	27.79
Total	1,090.2	10,959	2.35	9.10	134.9	29.56
1991						
Illinois	29.5	12,829	2.74	8.57	105.1	26.96
Indiana	855.6	11,030	2.24	8.31	135.0	29.78
Kentucky	258.4	11,547	2.43	8.63	107.3	24.77
Total	1,143.5	11,193	2.30	8.39	127.6	28.57
1992						
Illinois	51.3	10,841	3.41	7.97	185.5	40.21
Indiana	826.6	10,901	2.26	8.78	142.3	31.01
Kentucky	120.1	11,907	1.49	9.48	114.9	27.37
West Virginia	146.5	12,744	.77	8.82	115.4	29.41
Total	1,144.5	11,240	2.04	8.82	137.2	30.84
1993						
January - March						
Indiana	168.7	10,702	1.96	9.30	158.9	34.01
Kentucky	1.6	11,881	.90	12.10	115.4	27.42
Total	170.3	10,713	1.95	9.33	158.4	33.95
April - June						
Indiana	78.0	11,109	2.07	8.62	128.1	28.45
Pennsylvania	14.3	13,168	2.59	7.10	129.8	34.18
Indonesia	8.1	9,235	.13	1.40	100.7	18.60
Total	100.4	11,251	1.99	7.82	126.5	28.48
July - September						
Indiana	34.9	11,171	2.30	9.19	125.8	28.11
Pennsylvania	6.4	13,252	2.50	7.30	128.6	34.08
Indonesia	3.0	9,260	.12	1.20	116.0	21.48
Total	44.3	11,342	2.18	8.38	125.7	28.52
Year to Date						
Indiana	281.6	10,873	2.04	9.10	146.0	31.74
Kentucky	1.6	11,881	.90	12.10	115.4	27.42
Pennsylvania	20.7	13,194	2.56	7.16	129.4	34.15
Indonesia	11.1	9,242	.13	1.35	104.8	19.38
Total	315.0	10,973	2.00	8.72	143.3	31.44
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
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

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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						
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						
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	166.1	44.77
1993						
January - March						
Pennsylvania	204.2	13,263	1.62	6.58	172.9	45.85
West Virginia	105.5	13,412	1.94	7.02	160.7	43.12
Total	309.7	13,314	1.73	6.73	166.7	44.92
April - June						
Pennsylvania	131.2	13,248	1.69	6.50	162.8	43.13
West Virginia	94.7	13,305	2.31	7.47	152.8	40.67
Total	225.9	13,272	1.95	6.91	158.6	42.10
July - September						
Pennsylvania	60.8	13,247	1.73	5.70	162.1	42.95
West Virginia	39.5	13,204	2.47	7.57	153.0	40.39
Total	100.4	13,230	2.02	6.44	158.5	41.94
Year to Date						
Pennsylvania	396.2	13,256	1.66	6.42	167.9	44.51
West Virginia	239.7	13,336	2.17	7.29	156.3	41.70
Total	635.9	13,286	1.85	6.75	163.5	43.45
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	13,765	.98	6.36	198.6	54.66
Total	153.8	13,058	1.00	8.24	221.2	57.77

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
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	38.37
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	203.8	53.36
1989						
West Virginia	40.0	13,043	.76	7.17	200.6	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	13,384	.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						
Pennsylvania	8.3	13,080	1.46	6.25	173.0	45.26
West Virginia	131.9	13,252	.77	6.62	175.2	46.44
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	222.9	13,010	.73	6.56	170.3	44.31
1993						
January - March						
West Virginia	28.9	13,263	.74	6.99	170.8	45.32
Venezuela	26.5	12,918	.66	4.47	138.9	35.89
Total	55.4	13,090	.70	5.79	155.8	40.81
April - June						
West Virginia	14.4	13,104	.83	7.60	170.2	44.61
Colombia	24.7	12,765	.69	6.60	151.3	38.63
Total	39.1	12,890	.74	6.97	158.4	40.83
July - September						
West Virginia	14.4	13,321	.67	8.00	174.8	46.57
Venezuela	25.2	12,919	.53	7.30	139.8	36.12
Total	39.6	13,065	.58	7.55	152.8	39.92
Year to Date						
West Virginia	57.6	13,238	.75	7.40	171.7	45.45
Colombia	24.7	12,765	.69	6.60	151.3	38.63
Venezuela	51.7	12,918	.60	5.85	139.3	36.00
Total	134.1	13,028	.68	6.65	155.6	40.55
Company and Plant: Public Serv Electric & Gas Co, Mercer						
1980						
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	13,483	1.21	6.88	211.7	57.01
West Virginia	385.3	13,262	1.23	8.02	187.9	49.84
Total	971.0	13,363	1.22	7.42	200.4	53.56
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

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
1982						
Kentucky	0.1	13,016	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	196.4	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	6.46	194.6	52.46
1987						
Virginia	647.2	13,594	1.01	5.96	194.2	52.81
West Virginia	146.9	13,266	1.07	8.69	184.8	49.04
Total	794.1	13,534	1.03	6.46	192.5	52.11
1988						
Virginia	683.0	13,719	.83	5.87	172.2	47.26
West Virginia	1.4	13,222	.70	9.26	162.2	42.90
Total	684.4	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	13,678	.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	14,106	.80	4.71	177.8	50.16
1991						
Kentucky	.2	13,063	.75	7.10	184.6	43.00
Virginia	734.7	14,183	.82	4.55	177.9	50.46
West Virginia	.1	12,660	.73	8.20	177.0	45.52
Total	735.0	14,182	.82	4.55	177.9	50.46
1992						
Virginia	805.6	14,185	.83	4.40	175.9	49.90
West Virginia	35.3	13,675	.64	5.71	170.8	47.40
Total	840.9	14,172	.82	4.46	175.7	49.80
1993						
January - March						
Virginia	230.0	14,165	.79	4.41	177.8	50.36
West Virginia	7.2	13,648	.64	5.91	174.6	47.65
Total	237.2	14,150	.78	4.45	177.7	50.28
April - June						
Virginia	311.5	14,158	.81	4.57	180.4	51.07
Total	311.5	14,158	.81	4.57	180.4	51.07
Year to Date						
Virginia	541.5	14,161	.80	4.50	179.3	50.77
West Virginia	7.2	13,648	.64	5.91	174.6	47.65
Total	548.7	14,154	.80	4.52	179.2	50.73

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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, 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	189.3	43.66
Total	414.8	12,889	.89	8.45	188.4	43.41
1987						
Kentucky	264.9	12,976	.79	7.75	185.1	42.84
Virginia	151.8	12,863	.83	9.05	183.0	41.94
Total	416.7	12,935	.81	8.23	184.3	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	196.2	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						
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
1993						
January - March						
Virginia	27.9	12,300	.87	11.63	165.4	40.70
Total	27.9	12,300	.87	11.63	165.4	40.70
April - June						
Kentucky	26.7	11,970	2.06	12.18	172.4	41.28
Total	26.7	11,970	2.06	12.18	172.4	41.28
July - September						
Kentucky	19.1	12,068	1.85	12.75	187.2	45.18
Total	19.1	12,068	1.85	12.75	187.2	45.18
Year to Date						
Kentucky	45.9	12,011	1.98	12.42	178.6	42.91
Virginia	27.9	12,300	.87	11.63	165.4	40.70
Total	73.7	12,120	1.56	12.12	173.6	42.07
Company and Plant: Savannah Electric and Power, Port Wentworth						
1990						
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
1991						
Kentucky	259.2	12,116	.98	12.05	190.9	46.26
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

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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						
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	46.05
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	178.4	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	168.1	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						
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
1993						
January - March						
Kentucky	5.1	12,937	1.07	6.51	165.0	42.69
Virginia	36.9	12,612	.94	9.71	160.8	40.56
West Virginia	5.1	12,738	.77	8.60	166.7	42.46
Total	47.1	12,661	.93	9.24	161.9	40.99
April - June						
Kentucky	4.2	12,794	1.01	7.77	169.4	43.34
Virginia	16.9	12,903	.82	9.98	172.0	44.37
Total	21.0	12,892	.86	9.55	171.4	44.17
July - September						
Kentucky	14.5	12,706	.97	10.36	169.0	42.94
Virginia	36.5	12,978	1.00	10.12	174.9	45.40
Total	51.0	12,901	.99	10.19	173.3	44.70

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
1993						
Year to Date						
Kentucky	23.8	12,771	1.00	9.09	168.2	42.96
Virginia	90.2	12,814	.94	9.92	168.7	43.23
West Virginia	5.1	12,738	.77	8.60	166.7	42.46
Total	119.1	12,802	.94	9.70	168.5	43.14
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						
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
1993						
January - March						
Montana	2.0	9,450	.41	4.10	183.0	34.59
Washington	.7	10,800	.70	15.00	166.0	35.66
Canada	11.7	10,159	.49	13.00	179.5	36.46
Total	14.4	10,093	.49	11.86	179.2	36.17
April - June						
Montana	4.0	9,470	.41	4.10	183.0	34.66
Washington	.2	10,861	.68	15.20	165.0	35.84
Canada	5.6	9,727	.48	12.40	183.0	35.60
Total	9.9	9,646	.46	9.06	182.6	35.22
July - September						
Washington	.6	10,861	.68	15.20	165.0	35.84
Total	.6	10,861	.68	15.20	165.0	35.84
Year to Date						
Montana	6.0	9,483	.41	4.10	183.0	34.64
Washington	1.6	10,833	.69	15.11	165.5	35.85
Canada	17.3	10,019	.49	12.81	180.6	36.18
Total	24.9	9,935	.48	10.84	180.1	35.79
Company and Plant: Tampa Electric, Big Bend ²						
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	33.47
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

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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 ²						
1984						
Colorado	32.2	11,876	0.39	16.45	216.8	51.49
Illinois	460.4	11,276	2.94	10.30	141.8	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
1985						
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	5,108.9	11,806	2.42	8.75	184.6	43.60
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	26.35
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	26.19
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	4,356.1	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	563.4	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	163.5	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						
Colorado	180.6	13,092	0.45	10.01	146.5	38.37
Illinois	1,224.1	11,287	2.87	8.89	181.0	40.86
Kentucky	3,358.9	12,415	2.30	7.91	178.7	44.37

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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						
Tennessee	268.8	12,861	1.19	6.20	217.6	55.98
Utah	31.6	11,596	.39	8.20	163.8	37.99
West Virginia	451.8	13,137	2.38	7.64	207.1	54.41
Wyoming	12.3	8,887	.20	4.70	142.3	25.29
Total	5,528.1	12,255	2.30	8.09	182.4	44.70
1993						
January - March						
Illinois	400.2	11,119	2.84	8.96	175.1	38.93
Kentucky	572.9	12,541	2.19	7.62	195.1	48.92
Tennessee	71.4	12,858	1.12	6.06	208.6	53.64
Utah	124.2	11,478	.36	8.20	157.1	36.07
West Virginia	283.4	13,281	2.12	7.34	160.5	42.64
Total	1,452.1	12,218	2.14	7.91	180.4	44.07
April - June						
Illinois	376.6	11,273	2.89	9.27	171.8	38.72
Kentucky	766.3	12,420	2.08	7.75	186.2	46.26
Tennessee	70.3	12,811	1.02	6.86	203.8	52.22
Utah	62.3	11,800	.35	8.33	140.9	33.24
West Virginia	225.4	13,145	2.22	7.46	151.3	39.79
Total	1,501.0	12,234	2.19	8.07	176.3	43.14
July - September						
Illinois	56.2	11,334	2.86	9.33	171.6	38.89
Kentucky	234.0	12,428	2.02	8.14	196.7	48.89
Tennessee	25.2	12,694	1.14	7.70	203.0	51.54
West Virginia	22.5	13,080	2.40	8.00	209.6	54.83
Total	337.8	12,309	2.12	8.29	194.2	47.82
Year to Date						
Illinois	833.0	11,203	2.87	9.13	173.3	38.83
Kentucky	1,573.2	12,465	2.11	7.76	191.0	47.62
Tennessee	166.9	12,813	1.08	6.85	205.7	52.72
Utah	186.5	11,586	.35	8.25	151.6	35.13
West Virginia	531.2	13,215	2.17	7.42	158.7	41.94
Total	3,290.9	12,235	2.16	8.02	179.9	44.03
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	208.5	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

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
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	453.8	12,769	1.12	6.45	232.1	59.27
Total	453.8	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
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						
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
1993						
January - March						
Kentucky	184.2	12,815	1.21	5.91	227.7	58.36
Total	184.2	12,815	1.21	5.91	227.7	58.36
April - June						
Kentucky	183.3	12,876	1.17	6.54	222.5	57.30
Total	183.3	12,876	1.17	6.54	222.5	57.30
July - September						
Kentucky	70.5	12,764	1.14	7.20	222.7	56.85
Total	70.5	12,764	1.14	7.20	222.7	56.85
Year to Date						
Kentucky	438.1	12,832	1.18	6.38	224.7	57.67
Total	438.1	12,832	1.18	6.38	224.7	57.67
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	367.0	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

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
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
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						
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
1993						
January - March						
Kentucky	596.7	12,659	.97	8.81	141.4	35.80
Virginia	77.7	13,054	1.12	8.19	146.8	38.32
West Virginia	57.7	12,889	1.14	9.37	145.4	37.49
Total	732.0	12,719	1.00	8.79	142.3	36.20
April - June						
Kentucky	376.4	12,664	1.00	8.64	140.2	35.51
Virginia	62.7	12,893	1.30	9.16	147.3	37.98
West Virginia	21.0	12,831	1.17	9.07	144.3	37.04
Total	460.2	12,703	1.05	8.73	141.4	35.92
July - September						
Kentucky	141.1	12,779	1.11	9.63	140.0	35.78
Virginia	71.4	13,125	1.28	8.56	147.9	38.83
West Virginia	49.6	13,227	1.40	8.77	145.8	38.56
Total	262.1	12,958	1.21	9.17	143.3	37.14
Year to Date						
Kentucky	1,114.3	12,676	1.00	8.86	140.8	35.70
Virginia	211.9	13,030	1.23	8.60	147.3	38.39
West Virginia	128.3	13,010	1.25	9.09	145.4	37.83
Total	1,454.4	12,757	1.05	8.84	142.2	36.28

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

A rotary dumper empties a hopper of coal at a Norfolk, Virginia, coal-exporting facility for overseas destinations. Norfolk is the leading coal-exporting district.

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,
1985-1993**
(Thousand Metric Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks ¹	Consumption	Exports	Consumer Stocks ¹
1985 January - March	193,446	299	32,088	186,412	16,823	162,798
April - June	206,983	453	31,930	175,566	21,961	170,562
July - September	202,145	565	29,604	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	34,607	171,161	21,926	159,681
July - September	198,384	487	30,666	182,932	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	211,336	431	26,104	208,105	19,081	150,228
October - December	222,063	416	25,692	189,052	19,854	166,246
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	186,840	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	91,458	
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	232,200	616	36,154	200,119	22,436	152,980
April - June	220,205	947	36,753	190,542	24,503	157,188
July - September	225,939	800	31,931	215,636	24,023	146,854
October - December	226,614	1,087	30,838	203,293	22,039	148,499
Total	904,958	3,450		809,591	93,001	
1993 January - March	219,956	1,101	34,762	208,376	17,118	138,490
April - June	213,075	991	31,595	195,772	18,095	140,175
Total	433,031	2,092		404,148	35,213	

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, 1985-1993
(Thousand Metric Tons)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial	Residential and Commercial	Total
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	161,501	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	198,872
April - June	165,595	8,886	16,392	1,148	192,020
July - September	192,013	8,598	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	173,410	7,566	17,472	1,672	200,119
April - June	166,474	7,345	15,680	1,042	190,542
July - September	190,889	7,439	16,187	1,121	215,636
October - December	176,704	7,012	17,831	1,746	203,293
Total	707,477	29,362	67,170	5,582	809,591
1993 January - March	182,130	7,060	17,324	1,862	208,376
April - June	170,350	7,154	16,824	1,445	195,772
Total	352,480	14,214	34,148	3,307	404,148

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, 1985-1993
(Thousand Metric Tons)

Last Day of Quarter	Coal Consumers ¹				Coal Producers and Distributors	Total
	Electric Utilities	Coke Plants	Other Industrial ²	Total		
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	2,600	9,139	149,582	30,666	180,248
December 31	146,788	2,714	9,461	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	3,368	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	145,178	2,608	5,194	152,980	36,154	189,135
June 30	148,938	2,519	5,731	157,188	36,753	193,941
September 30	138,513	2,009	6,331	146,854	31,931	178,785
December 31	139,824	2,356	6,318	148,499	30,838	179,337
1993 March 31	130,614	2,549	5,327	138,490	34,762	173,252
June 30	131,948	2,739	5,488	140,175	31,595	171,770

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, 1985-1993
(Thousand Metric Tons, Dollars per Metric Ton)

Year	1985	1986	1987	1988	1989	1990	1991	1992	1993
January - March									
Exports									
Quantity	16,823	15,644	15,037	14,570	19,440	20,305	20,247	22,436	17,118
Price	\$54.17	\$51.28	\$49.37	\$46.35	\$46.59	\$47.65	\$49.14	\$46.61	\$46.80
Imports									
Quantity	299	440	300	492	482	666	851	616	1,101
Price	\$41.60	\$37.71	\$38.62	\$31.90	\$37.09	\$38.66	\$37.16	\$37.07	\$33.84
April - June									
Exports									
Quantity	21,961	21,926	18,246	22,589	25,805	25,159	23,781	24,503	18,095
Price	\$53.74	\$51.04	\$47.62	\$46.96	\$46.82	\$46.66	\$47.37	\$45.57	\$45.66
Imports									
Quantity	453	522	438	533	623	612	662	947	991
Price	\$38.85	\$39.84	\$34.93	\$37.19	\$37.69	\$37.11	\$38.14	\$36.33	\$35.56
July - September									
Exports									
Quantity	23,434	21,469	19,081	25,121	21,764	26,759	28,302	24,023	-
Price	\$52.69	\$50.06	\$46.31	\$46.12	\$46.97	\$46.54	\$45.76	\$44.66	-
Imports									
Quantity	565	487	431	397	839	466	893	800	-
Price	\$40.51	\$39.57	\$35.21	\$29.51	\$38.49	\$35.33	\$34.67	\$37.95	-
October - December									
Exports									
Quantity	21,861	18,521	19,854	23,923	24,448	23,760	26,526	22,039	-
Price	\$52.11	\$50.36	\$45.85	\$46.72	\$47.06	\$47.05	\$45.36	\$45.27	-
Imports									
Quantity	453	557	416	514	642	704	669	1,087	-
Price	\$38.38	\$41.27	\$33.46	\$32.49	\$36.66	\$39.84	\$36.55	\$36.46	-
Total									
Exports									
Quantity	84,078	77,581	72,219	86,203	91,458	95,984	98,855	93,001	35,213
Price	\$53.11	\$50.65	\$47.15	\$46.55	\$46.87	\$46.99	\$46.73	\$45.57	-
Imports									
Quantity	1,771	2,006	1,585	1,936	2,587	2,449	3,075	3,450	2,092
Price	\$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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	3,192,375	333,455	4,383,224	3,525,830	5,505,425	-36.0
Canada ¹	3,105,950	234,602	4,347,026	3,340,552	5,411,671	-38.3
Dominican Republic	22,581	148	16,695	22,729	31,799	-28.5
Jamaica	11,888	-	11,999	11,888	11,999	-9
Mexico	51,000	98,590	7,324	149,590	49,517	202.1
Other ²	956	115	180	1,071	439	144.0
South America Total	1,262,460	1,692,590	1,767,949	2,955,050	3,202,654	-7.7
Argentina	124,511	142,778	90,976	267,289	176,309	49.9
Brazil	1,119,363	1,544,001	1,641,558	2,663,364	2,987,510	-10.9
Chile	-	-	24,576	-	24,576	-
Other ²	18,586	5,811	10,839	24,397	12,259	99.0
Europe Total	9,036,901	10,040,967	13,632,168	19,077,888	28,233,293	-32.4
Albania	-	-	-	-	20,216	-
Belgium & Luxembourg	1,448,555	817,184	1,791,965	2,265,739	3,523,499	-35.7
Bulgaria	208,748	202,014	50,568	410,762	151,959	170.3
Denmark	95,883	208,873	958,051	304,756	1,921,588	-84.1
Finland	129,506	66,023	186,118	195,529	186,118	5.1
France	595,263	1,601,765	1,866,082	2,197,028	4,426,039	-50.4
Germany, FR	76,809	291,623	228,762	368,432	516,948	-28.7
Ireland	320,135	225,211	271,726	545,348	591,162	-7.8
Italy	1,638,019	1,614,413	2,351,398	3,252,432	4,928,333	-34.0
Netherlands	1,334,189	1,736,837	2,302,874	3,071,026	4,391,926	-30.1
Norway	23,268	22,700	22,557	45,968	44,556	3.2
Portugal	476,094	495,131	477,049	971,225	777,963	24.8
Romania	88,431	280,843	229,837	369,274	366,997	.6
Spain	1,107,244	823,037	940,875	1,930,281	2,250,093	-14.2
Sweden	151,272	151,558	155,505	302,830	304,424	-.5
Turkey	357,732	352,935	489,276	710,667	740,858	-4.0
United Kingdom	985,753	1,111,988	1,249,289	2,097,741	2,698,738	-22.3
Yugoslavia	-	38,852	53,383	38,852	377,759	-89.7
Other ²	-	-	7,253	-	14,317	-
Asia Total	4,016,295	4,572,175	4,196,680	8,568,470	8,786,518	-2.3
China (Taiwan)	626,755	716,642	797,005	1,343,397	1,427,708	-5.9
Hong Kong	-	-	104,254	-	104,254	-
Israel	223,961	110,539	281,293	334,500	393,715	-15.0
Japan	2,239,535	3,120,364	2,353,402	5,359,899	5,520,639	-2.9
Korea, Republic of	924,614	624,332	659,322	1,548,946	1,336,785	15.9
Other ²	1,430	298	1,404	1,728	3,417	-49.4
Oceania & Australia Total	-	310	-	310	259	19.7
Africa Total	586,912	478,863	523,155	1,065,775	1,210,644	-12.0
Algeria	99,923	107,453	169,616	207,376	284,926	-27.2
Egypt	111,039	159,959	92,624	270,998	368,262	-26.4
Morocco	175,749	134,120	195,014	309,869	356,667	-13.1
South Africa, Rep of	179,228	77,331	65,901	256,559	200,789	27.8
Other ²	20,973	-	-	20,973	-	-
Total	18,094,943	17,118,380	24,503,176	35,213,323	46,938,793	-25.0

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 1992.

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$37.89	\$43.61	\$36.73	\$36.18	\$36.57	4.4
Canada ¹	37.39	41.19	36.70	37.66	36.44	3.4
Dominican Republic	40.34	44.86	41.28	40.37	40.42	-1
Mexico	48.08	49.17	46.23	48.80	49.35	-1.1
Other ²	38.71	44.87	36.14	39.39	38.11	3.3
South America Total	48.75	49.15	50.89	48.98	50.53	-3.1
Argentina	47.99	47.81	50.10	47.79	49.68	-3.8
Brazil	48.66	49.31	50.77	49.12	50.61	-2.9
Chile	-	-	52.23	-	52.23	-
Other ²	44.18	43.43	38.00	43.82	38.79	13.0
Europe Total	47.92	47.17	46.94	47.52	46.98	1.2
Belgium & Luxembourg	48.54	47.79	48.48	48.28	48.58	-6
Bulgaria	45.99	46.55	49.65	46.27	48.58	-4.8
Denmark	40.00	37.85	36.26	38.53	36.84	4.6
Finland	44.46	40.75	44.99	43.20	44.99	-4.0
France	48.94	43.93	42.84	45.29	42.43	6.7
Germany, FR	47.57	42.24	40.79	43.35	41.59	4.2
Ireland	37.00	42.66	39.85	39.34	39.77	-1.1
Italy	49.51	48.61	50.08	49.06	50.34	-2.5
Netherlands	47.39	49.11	48.78	48.36	48.28	.2
Norway	-	-	-	-	46.60	-
Portugal	40.14	42.51	44.32	41.35	44.74	-7.6
Romania	38.90	40.92	47.68	40.29	48.61	-17.1
Spain	51.74	51.51	50.14	51.64	50.65	2.0
Sweden	50.43	51.11	52.18	50.77	51.69	-1.8
Turkey	45.89	47.44	50.54	47.17	50.84	-7.2
United Kingdom	50.77	50.32	49.46	50.53	50.45	.1
Yugoslavia	-	53.25	48.25	53.25	48.53	9.7
Other ²	-	-	40.79	-	40.79	-
Asia Total	45.82	45.52	47.33	45.86	47.83	-4.5
China (Taiwan)	44.95	44.19	46.35	44.54	45.83	-2.8
Hong Kong	-	-	41.40	-	41.40	-
Israel	37.34	38.70	43.47	37.79	43.62	-13.4
Japan	46.22	45.66	47.85	45.89	48.35	-5.1
Korea, Republic of	47.53	47.57	49.26	47.55	49.53	-4.0
Other ²	39.97	48.72	44.55	41.40	44.44	-6.8
Oceania & Australia Total	-	37.98	-	37.98	38.08	-2
Africa Total	46.81	46.88	45.82	46.84	47.18	-7
Algeria	49.32	49.61	50.18	49.47	51.17	-3.3
Egypt	49.53	51.19	50.92	50.51	50.38	.3
Morocco	37.27	37.39	37.50	37.32	37.30	*
South Africa, Rep of	53.14	50.62	52.08	52.38	53.20	-1.6
Other ²	46.50	-	-	46.50	-	-
Total³	45.69	46.84	45.46	46.25	46.17	.2
U.S. Total⁴	45.66	46.81	45.57	46.22	46.07	.3

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 1992.

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.

* Rounded to zero

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	1,522,615	72,349	2,973,860	1,594,964	3,875,253	-58.8
Canada ¹	1,474,942	51,023	2,937,719	1,525,965	3,814,252	-80.0
Dominican Republic	22,581	148	16,695	22,729	31,799	-28.5
Jamaica	11,888	-	11,999	11,888	11,999	-.9
Mexico	12,266	21,063	7,267	33,331	16,764	98.8
Other ²	936	115	180	1,051	439	139.4
South America Total	24,592	154,135	37,019	178,727	38,798	360.7
Argentina	907	61	123	968	437	121.5
Brazil	5,099	148,263	25,989	153,362	26,034	489.1
Chile	-	-	68	-	68	-
Other ²	18,586	5,811	10,839	24,397	12,259	99.0
Europe Total	2,371,403	3,783,810	5,769,184	6,155,213	12,132,984	-49.3
Belgium & Luxembourg	248,336	190,289	579,129	438,625	1,031,195	-57.5
Denmark	-	208,873	958,051	208,873	1,921,586	-89.1
France	-	703,470	947,227	703,470	2,368,791	-70.3
Germany, FR	11,874	203,616	167,732	215,490	435,025	-50.5
Ireland	320,135	225,211	271,726	545,346	591,182	-7.8
Italy	432,291	580,816	747,640	1,013,107	1,672,431	-39.4
Netherlands	561,493	632,393	891,665	1,193,886	1,810,430	-34.1
Norway	12,048	5,095	6,474	17,143	12,450	37.7
Portugal	430,206	451,141	438,634	881,347	697,427	26.4
Romania	-	110,404	-	110,404	-	-
Spain	248,986	190,815	371,433	439,801	980,584	-55.1
Sweden	-	-	-	-	224	-
Turkey	-	283	222	283	286	-1.0
United Kingdom	106,034	281,404	389,251	387,438	611,391	-36.6
Asia Total	1,549,053	1,983,663	1,655,539	3,532,716	2,933,543	20.4
China (Taiwan)	626,755	634,145	708,964	1,260,900	1,242,135	1.5
Hong Kong	-	-	104,254	-	104,254	-
Israel	223,961	110,539	151,665	334,500	264,055	26.7
Japan	485,497	1,079,170	483,117	1,544,667	951,320	62.4
Korea, Republic of	231,410	159,511	226,135	390,921	368,362	6.1
Other ²	1,430	298	1,404	1,728	3,417	-49.4
Oceania & Australia Total	-	310	-	310	259	19.7
Africa Total	175,749	134,120	195,014	309,869	356,667	-13.1
Morocco	175,749	134,120	195,014	309,869	356,667	-13.1
Total	5,643,412	6,128,387	10,630,616	11,771,799	19,337,504	-39.1

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 1992.

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$35.28	\$39.27	\$35.06	\$35.46	\$34.93	1.5
Canada ¹	35.15	34.83	35.00	35.14	34.86	.8
Dominican Republic	40.34	44.86	41.28	40.37	40.42	-.1
Mexico	40.33	48.29	46.23	45.42	40.91	11.0
Other ²	38.71	44.87	38.14	39.39	38.11	3.3
South America Total	43.81	44.76	42.93	44.71	43.00	4.0
Argentina	41.19	-	-	41.19	45.04	-8.6
Brazil	-	44.81	45.00	44.81	45.00	-.4
Chile	-	-	45.18	-	45.18	-
Other ²	44.18	43.43	38.00	43.62	38.79	13.0
Europe Total	40.87	41.21	40.75	41.09	40.72	.9
Belgium & Luxembourg	35.50	40.84	40.11	37.82	40.35	-6.3
Denmark	-	37.85	36.26	37.85	36.84	2.8
France	-	35.13	37.20	35.13	37.29	-5.8
Germany, FR	31.53	38.19	37.71	37.82	40.02	-5.5
Ireland	37.00	42.66	39.85	39.34	39.77	-1.1
Italy	45.23	44.02	45.34	44.53	45.76	-2.7
Netherlands	42.94	45.09	43.58	44.08	43.05	2.4
Portugal	39.77	42.79	44.27	41.31	44.36	-6.9
Romania	-	40.00	-	40.00	-	-
Spain	40.79	38.79	42.22	39.44	41.88	-5.8
Sweden	-	-	-	-	38.08	-
Turkey	-	45.02	44.93	45.02	45.00	.1
United Kingdom	41.96	44.21	43.14	43.60	42.67	2.2
Asia Total	41.49	40.45	43.82	40.90	43.16	-5.2
China (Taiwan)	44.95	43.38	45.89	44.16	45.16	-2.2
Hong Kong	-	-	41.40	-	41.40	-
Israel	37.34	38.70	42.82	37.79	43.32	-12.8
Japan	40.27	39.22	41.66	39.54	40.63	-2.7
Korea, Republic of	38.58	38.24	43.57	38.44	43.32	-11.3
Other ²	39.97	48.72	44.55	41.40	44.44	-6.8
Oceania & Australia Total	-	37.98	-	37.98	38.08	-.2
Africa Total	37.27	37.39	37.50	37.32	37.30	*
Morocco	37.27	37.39	37.50	37.32	37.30	*
Total³	39.48	40.94	39.62	40.26	39.87	1.0
U.S. Total⁴	39.95	40.67	39.82	40.33	39.63	1.8

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 1992.

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.

* Rounded to zero

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	1,669,760	261,106	1,409,364	1,930,866	1,630,172	18.4
Canada ¹	1,631,008	183,579	1,409,307	1,814,587	1,597,419	13.6
Mexico	38,732	77,527	57	116,259	32,753	255.0
Other ²	20	-	-	20	-	-
South America Total	1,237,868	1,538,455	1,730,930	2,776,323	3,163,856	-12.2
Argentina	123,604	142,717	90,853	266,321	177,872	49.7
Brazil	1,114,264	1,395,738	1,615,569	2,510,002	2,961,476	-15.2
Chile	-	-	24,508	-	24,508	-
Europe Total	6,665,498	6,257,177	7,862,984	12,922,675	16,100,309	-19.7
Albania	-	-	-	-	20,216	-
Belgium & Luxembourg	1,200,219	626,895	1,212,836	1,827,114	2,492,304	-26.7
Bulgaria	208,748	202,014	50,568	410,762	151,959	170.3
Denmark	95,883	-	-	95,883	-	-
Finland	129,506	66,023	186,118	195,529	186,118	5.1
France	595,263	898,295	918,855	1,493,558	2,057,248	-27.4
Germany, FR	64,935	88,007	61,030	152,942	81,923	86.7
Italy	1,205,728	1,033,597	1,603,758	2,239,325	3,255,902	-31.2
Netherlands	772,696	1,104,444	1,411,009	1,877,140	2,581,496	-27.3
Norway	11,220	17,605	16,083	28,825	32,106	-10.2
Portugal	45,888	43,990	38,415	89,878	80,536	11.6
Romania	88,431	170,439	229,837	258,870	366,997	-29.5
Spain	858,258	632,222	569,242	1,490,480	1,269,509	17.4
Sweden	151,272	151,558	155,505	302,830	304,200	-5.5
Turkey	357,732	352,652	489,054	710,384	740,372	-4.1
United Kingdom	879,719	830,584	860,038	1,710,303	2,087,347	-18.1
Yugoslavia	-	38,852	53,383	38,852	377,759	-89.7
Other ²	-	-	7,253	-	14,317	-
Asia Total	2,467,242	2,588,512	2,541,141	5,055,754	5,852,975	-13.6
China (Taiwan)	-	82,497	88,041	82,497	185,573	-55.5
Israel	-	-	129,628	-	129,660	-
Japan	1,774,038	2,041,194	1,890,285	3,815,232	4,589,319	-16.5
Korea, Republic of	693,204	464,821	433,187	1,158,025	968,423	19.6
Africa Total	411,163	344,743	328,141	755,906	853,977	-11.5
Algeria	99,923	107,453	169,616	207,376	284,926	-27.2
Egypt	111,039	159,959	92,624	270,998	368,262	-26.4
South Africa, Rep of	179,228	77,331	65,901	256,559	200,789	27.8
Other ²	20,973	-	-	20,973	-	-
Total	12,451,531	10,989,993	13,872,560	23,441,524	27,601,289	-15.1

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 1992.

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$39.48	\$44.68	\$40.17	\$40.19	\$40.40	-0.5
Canada ¹	39.22	42.68	40.17	39.57	40.15	-1.4
Mexico	50.48	49.41	-	49.76	52.82	-5.8
South America Total	48.78	49.58	50.83	49.22	50.61	-2.7
Argentina	48.04	47.61	50.10	47.81	49.69	-3.8
Brazil	48.86	49.79	50.85	49.37	50.65	-2.5
Chile	-	-	52.25	-	52.25	-
Europe Total	50.19	50.74	51.45	50.45	51.53	-2.1
Belgium & Luxembourg	51.24	50.12	52.48	50.88	51.99	-2.1
Bulgaria	45.99	46.55	49.65	46.27	48.58	-4.8
Denmark	40.00	-	-	40.00	-	-
Finland	44.46	40.75	44.99	43.20	44.99	-4.0
France	48.94	50.82	48.65	50.07	48.45	3.4
Germany, FR	50.50	51.63	49.25	51.15	49.88	2.5
Italy	51.05	51.18	52.38	51.11	52.73	-3.1
Netherlands	50.61	51.41	52.06	51.08	51.95	-1.7
Norway	-	-	-	-	46.60	-
Portugal	43.68	39.63	44.94	41.70	47.98	-13.1
Romania	38.90	42.15	47.68	40.47	48.61	-16.7
Spain	52.15	52.86	53.78	52.45	53.95	-2.8
Sweden	50.43	51.11	52.18	50.77	51.70	-1.8
Turkey	46.89	47.45	50.54	47.17	50.84	-7.2
United Kingdom	51.83	52.38	52.32	52.10	52.61	-1.0
Yugoslavia	-	53.25	48.25	53.25	48.53	9.7
Other ²	-	-	40.79	-	40.79	-
Asia Total	48.61	49.41	49.62	49.03	50.17	-2.3
China (Taiwan)	-	50.37	50.07	50.37	50.29	.2
Israel	-	-	44.24	-	44.24	-
Japan	47.84	49.06	49.37	48.50	49.96	-2.9
Korea, Republic of	50.52	50.78	52.23	50.62	51.89	-2.4
Africa Total	50.90	50.57	50.77	50.75	51.31	-1.1
Algeria	49.32	49.61	50.18	49.47	51.17	-3.3
Egypt	49.53	51.19	50.92	50.51	50.38	.3
South Africa, Rep of	53.14	50.62	52.08	52.38	53.20	-1.6
Other ²	46.50	-	-	46.50	-	-
Total³	48.32	50.11	49.88	49.15	50.46	-2.6
U.S. Total⁴	48.24	50.23	49.98	49.17	50.58	-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 1992.

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	251,440	157,994	231,177	409,434	464,853	-11.9
Canada	250,851	157,994	231,177	408,845	464,853	-12.0
Mexico	589	-	-	589	-	-
South America Total	580,087	722,651	571,820	1,302,738	925,731	40.7
Colombia	430,580	500,812	488,665	931,372	707,735	31.6
Venezuela	149,527	221,839	83,155	371,366	217,996	70.4
Europe Total	2	-	-	2	-	-
Poland	2	-	-	2	-	-
Asia Total	103,968	219,878	127,133	323,846	127,133	154.7
Hong Kong	-	-	1	-	1	-
Indonesia	103,968	219,878	127,132	323,846	127,132	154.7
Oceania & Australia Total	48,804	-	16,388	48,804	44,630	9.4
Australia	48,804	-	16,388	48,804	44,630	9.4
Africa Total	6,848	-	-	6,848	-	-
South Africa, Rep of	6,848	-	-	6,848	-	-
Total	991,149	1,100,523	946,518	2,091,672	1,562,347	33.9

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	April - June 1993	January - March 1993	April - June 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$30.91	\$24.85	\$28.80	\$28.58	\$27.97	2.2
Canada	30.93	24.85	28.80	28.59	27.97	2.2
Mexico	23.22	-	-	23.22	-	-
South America Total	32.70	31.76	36.38	32.18	38.38	-16.1
Colombia	31.95	32.04	36.31	32.00	36.55	-12.5
Venezuela	34.87	31.15	36.74	32.65	44.30	-26.3
Asia Total	50.37	42.92	41.14	45.31	41.14	10.1
Indonesia	50.37	42.92	41.14	45.31	41.14	10.1
Oceania & Australia Total	33.78	-	52.48	33.78	42.55	-20.6
Australia	33.78	-	52.48	33.78	42.55	-20.6
Total¹	34.29	33.17	35.58	33.69	35.78	-5.8
U.S. Total²	35.57	33.85	36.33	34.66	36.62	-5.4

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

Coal is a combustible sedimentary organic rock composed primarily of carbon, hydrogen, and oxygen.

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 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 thousand 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 thousand 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 thousand 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 13 hundred 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 thousand 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 thousand 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 thousand 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 multiplied by 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 $C = Sb + R - Se$, where Sb = beginning stocks, R = receipts, and Se = 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 (C_m) 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 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

A preliminary estimate of 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 estimate of fourth-quarter U.S. total production and the corresponding State-level production are revised.

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, Pennsylvania, 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 (Table C1).

Table C1. Accuracy of Preliminary Quarterly Values Compared With Final Quarterly Values at the U.S. Level, 1991 and 1992

Item	Mean Absolute Value of Change	
	1991	1992
Production (Thousand Short Tons)	456	626
Distribution (Thousand Short Tons)		
Electric Generation	290	14
Other Industrial	215	32
Coke Plants	250	234
Residential/Commercial	3	*
Receipts (Thousand Short Tons)		
Electric Generation	840	143
Other Industrial	740	211
Coke Plants	73	33
Residential/Commercial	0	*
Average Price of Coal Receipts (Dollars per Short Ton)		
Electric Generation	.06	.05
Other Industrial	.04	*
Coke Plants	.06	.19
Consumption (Thousand Short Tons)		
Electric Generation	221	196
Other Industrial	188	215
Coke Plants	73	0
Residential/Commercial	28	*
Stocks¹ (Thousand Short Tons)		
Electric Generation	1,603	285
Other Industrial	25	0
Coke Plants	0	5
Producer/Distributor	203	10

¹ Stocks are end of quarter values.

* Tonnage less than 0.5 thousand short tons or average price less than 0.5 cents.

Notes: • Change refers to the difference between preliminary quarterly data published in *Quarterly Coal Report* (QCR) and the final quarterly data published in the QCR and *Coal Production*. • Mean absolute value of change is the unweighted average of the absolute changes.

Sources: • Energy Information Administration (EIA), Form EIA-7A, "Coal Production Report"; Form EIA-8, "Coal Distribution Report"; Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants"; Form EIA-5, "Coke Plant Report-Quarterly"; Form EIA-759 "Monthly Power Plant Report." • Federal Energy Regulatory Commission: FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

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 one percent threshold are left to the discretion of the Office Director.

13. Approximate Heat Content of Coal

Table C2 presents the approximate heat content of coal by rank and disposition for 1980 through 1993.

Table C2. Approximate Heat Content of Coal
(Million Btu per Short Ton)

Coal Rank Sector	1980	1981	1982	1983	1984	1985	1986
Anthracite							
Production	22.869	23.291	23.289	22.734	23.107	22.428	23.084
Consumption	21.405	22.080	22.518	21.583	22.322	20.817	21.512
Non-electric utility users	22.719	23.749	24.578	24.536	25.128	23.031	24.399
Electric utilities	17.652	18.168	18.160	18.516	17.018	16.784	15.578
Imports and exports	25.400	25.400	25.400	25.400	25.400	25.400	25.400
Bituminous Coal and Lignite							
Production	22.411	22.301	22.233	22.048	22.005	21.867	21.908
Consumption	21.950	21.710	21.670	21.576	21.570	21.368	21.482
Residential and commercial	22.488	22.010	22.226	22.438	22.406	22.568	22.669
Coke plants	26.800	26.800	26.800	26.800	26.800	26.800	26.800
Other industrial and transportation	22.690	22.572	22.695	22.680	22.525	22.013	22.185
Electric utilities	21.301	21.091	21.200	21.141	21.108	20.965	21.091
Imports	25.000	25.000	25.000	25.000	25.000	25.000	25.000
Exports	26.404	26.178	26.231	26.300	26.410	26.320	26.308
Coal Coke	24.800	24.800	24.800	24.800	24.800	24.800	24.800
	1987	1988	1989	1990	1991	1992	1993
Anthracite							
Production	23.108	23.266	23.385	22.574	22.573	22.571	22.571
Consumption	22.435	22.423	22.623	21.668	21.410	21.278	21.278
Non-electric utility users	26.293	26.021	27.196	25.199	25.268	24.660	24.660
Electric utilities	15.962	17.312	16.310	16.140	15.858	16.898	16.898
Imports and exports	25.400	25.400	25.400	25.400	25.400	25.400	25.400
Bituminous Coal and Lignite							
Production	21.918	21.817	21.759	21.819	21.678	21.672	21.672
Consumption	21.514	21.324	21.268	21.330	21.146	21.164	21.164
Residential and commercial	22.800	23.135	22.917	22.678	22.635	22.871	22.871
Coke plants	26.800	26.800	26.800	26.800	26.800	26.800	26.800
Other industrial and transportation	22.360	22.341	22.324	22.444	22.448	22.305	22.305
Electric utilities	21.143	20.905	20.854	20.935	20.761	20.809	22.809
Imports	25.000	25.000	25.000	25.000	25.000	25.000	25.000
Exports	26.304	26.308	26.168	26.207	26.192	26.166	26.166
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 and 1993 are preliminary.

Glossary

Anthracite Coal: 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 (mmf) basis for fixed-carbon and volatile matter and a moist mmf basis for calorific value.

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

LV = Low-volatile bituminous coal
 MV = Medium-volatile bituminous coal
 HVA = High-volatile A bituminous coal
 HVB = High-volatile B bituminous coal
 HVC = High-volatile C bituminous coal
 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.

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 (mmf) 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 thousand 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 fol-

lowing ASTM Specification D388-84 on a moist mineral-matter-free (mmf) 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 degradation 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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