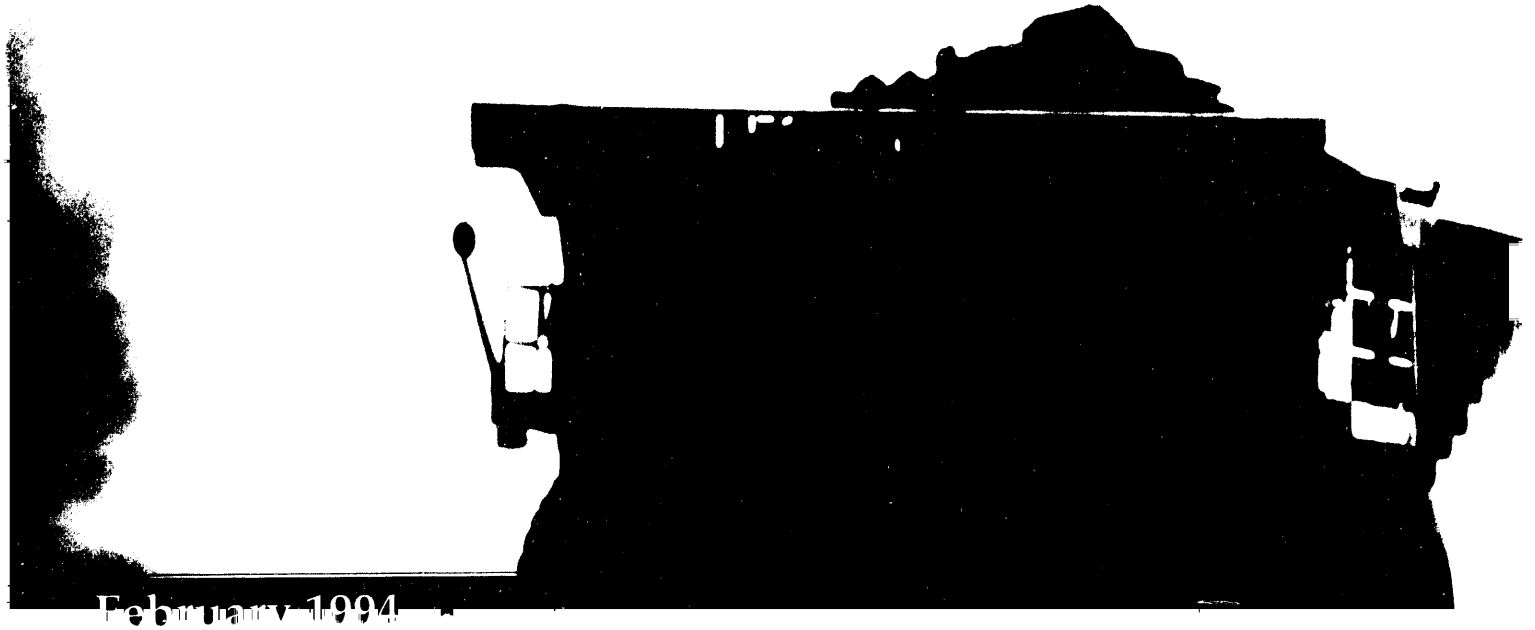
Quarterly Coal Report

July-September 1993

DOE/EIA-0121(93/3Q)



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Cover Photo:
Coal provides the energy needed for the Nation's industrial growth and plays a major role in its ongoing development. Coal is our most abundant energy resource. Coal-fired electric utilities account for over half the electricity generated annually. Preliminary 1992 coal production totaled 1 billion tons.

We thank the following for the use of their photographs in this report:
Pittsburg & Midway Coal Company; Sun Company, Inc.; Port of Baltimore; Port of Los Angeles; American Iron and Steel Institute; National Coal Association; CSX; Norfolk & Western Railway Company.

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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 July through September 1993 and aggregated quarterly historical data for 1985 through the second 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.

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Executive Summary

The United States produced 228 million short tons of coal in the third quarter of 1993, 21 million short tons less than in the third quarter of 1992, and the lowest third quarter level since 1986 (Table 1). Production east of the Mississippi River dropped 23 million short tons and production west of the Mississippi River rose 1 million short tons, compared with the third quarter of 1992. This brought the total for the first three quarters of 1993 to 705 million short tons, 43 million short tons less than in the same period in 1992 (Table 4). Compared with the first 9 months of 1992, all States east of the Mississippi River, with the exception of Maryland, had lower coal production levels, led by West Virginia, Illinois, and Pennsylvania, which produced 19 million short tons, 14 million short tons, and 9 million short tons less coal, respectively. Production in these States was affected by the United Mine Workers of America selective strike, which resumed on May 10, 1993, and ended on December 14, 1993, when a new 5-year contract was ratified by the membership. Coal production west of the Mississippi River went up 6 million short tons in the first 9 months of 1993 compared with the same period a year earlier. This was primarily due to the 7-million-short-ton increase in Wyoming coal output.

The principal reasons for the drop in coal production in the third quarter of 1993 and in the first 9 months of 1993, compared with the same time periods in 1992, were: a draw-down of electric utility coal stocks to meet the increase in demand for coal-fired electricity generation; a decrease in demand for U.S. coal in foreign markets, particularly the steam coal markets; and a draw-down of producer/distributor stocks.

Distribution of U.S. coal in the third quarter of 1993 was 235 million short tons, a decrease of 20 million short tons from distribution in the third quarter of 1992. Domestic distribution accounted for 14 million short tons of the decline, while overseas shipments accounted for most of the remainder. In the first three quarters of 1993, U.S. coal distribution was 35 million short tons lower than in the first three quarters of 1992, with 15 million short tons less distributed to domestic markets, and 19 million short tons less distributed to foreign markets (Table 9).

U.S. coal exports from July through September of 1993 were 19 million short tons in the third quarter of 1993, 8 million short tons less than in the third quarter of 1992 (Table 14). Most of the decrease was due to lower shipments to Denmark, the Netherlands, and France. Coal exports totaled 57 million short tons for the first three quarters of 1993, a 27-percent decrease from the same period in 1992. The leading destinations for U.S. coal exports were Japan, Canada, Italy, the Netherlands, and Brazil, together accounting for 52 percent of total exports (Table 16). Coal exports for the first three quarters of 1993 were valued at $2 billion, based on an average price of $41.54 per short ton (Table 17). The Customs District of Norfolk, Virginia, handled 51 percent of all coal exported during the first 9 months of 1993 (Table 22).

Steam coal exports in the third quarter of 1993 were 7 million short tons, 5 million short tons lower than in the third quarter of 1992. Most of the decline was due to a drop in steam coal exports to Europe, particularly to Denmark, the Netherlands, and France, and to steam coal markets in Canada. In the first 9 months of 1993, steam coal exports totaled 20 million short tons, a decrease of 41 percent from a year earlier (Table 18). A drop in steam coal exports to Canada, Denmark, and France was primarily responsible for the decline. Canada, Japan, and China were the three leading destinations, accounting for 43 percent of all steam coal exports.

In the third quarter of 1993, metallurgical coal exports totaled 12 million short tons, 3 million short tons less than in the third quarter of 1992. Metallurgical coal exports in the first 9 months of 1993 amounted to 38 million short tons, a decrease of 17 percent from a year earlier (Table 20). Declines in metallurgical coal shipments to Japan, Italy, Belgium and Luxembourg, France, Brazil, and the Netherlands represented most of the loss. The three leading destinations for metallurgical coal exports were Japan, Brazil, and Italy, which together received 36 percent of the total.

U.S. coal imports in the third quarter of 1993 were 2.1 million short tons, 1.3 million short tons more than in the third quarter of 1992. Higher levels of coal from Colombia and Venezuela represented most of the increase (Table 14). This brought the total for the first three quarters of 1993 to 4.4 million short tons, 71 percent more than in the comparable period of 1992 and a record level. Most of the increase in coal imports was due to higher shipments from Colombia and Venezuela to electric utilities. Colombia was the leading source of imported coal, accounting for 54 percent of the total. Coal imports for January through September 1993 were valued

at $136 million, based on an average price of $30.52 per short ton (Table 25).

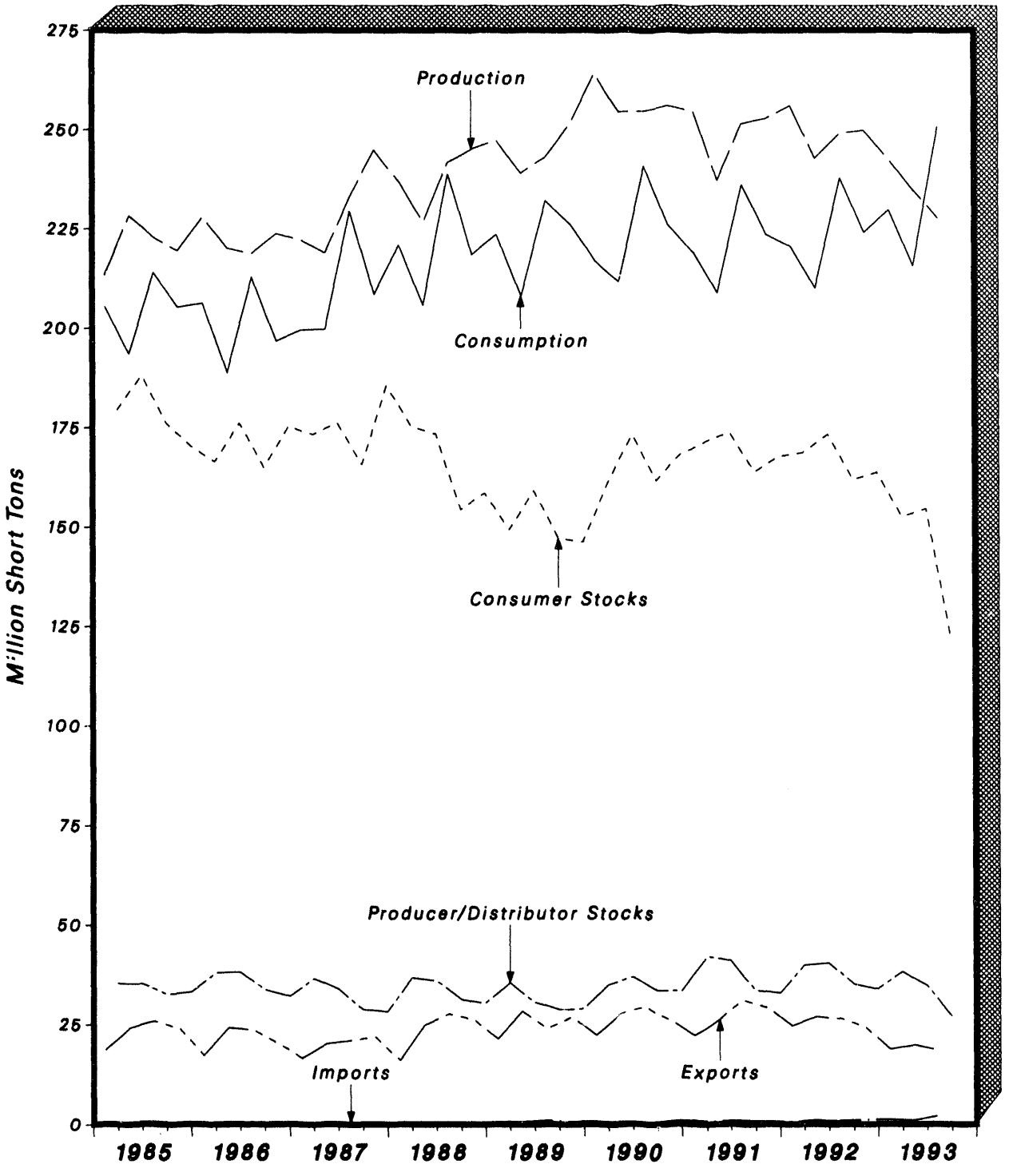
The amount of coal received by domestic consumers in the third quarter of 1993 totaled 218 million short tons, 10 million short tons less than in the third quarter of 1992 (Table 28). Coal receipts for the first 9 months of 1993 totaled 653 million short tons, 1 percent less than receipts in the first 9 months of 1992 (Table 30). Compared with the third quarter of 1992, the average price of coal receipts in the third quarter of 1993 declined in all sectors: 3 percent at manufacturing plants and 2 percent at both coke plants and electric utilities. (Table 29). The average price of coal receipts in the first 9 months of 1993 also went down in all sectors compared with the first 9 months of 1992: 3 percent at electric utilities and 1 percent at manufacturing and coke plants.

Coal consumption in the third quarter of 1993 was 251 million short tons, 13 million short tons higher than in the third quarter of 1992 (Table 45). This brought the total for the first 9 months of 1993 to 696 million short tons, 4 percent higher than in the first three quarters of 1992, primarily due to a 5-percent increase in consumption at electric utility plants (Table 47). Most of this increase occurred in the East North Central, East South Central, West South Central, and South Atlantic Census Divisions, where coal-fired generation was used to meet higher electricity demand. In addition, in the East South Central and West South Central Census Divisions, some coal-fired generation was used to make up for the loss of generation from nuclear-powered plants that were temporarily out of operation for maintenance.

U.S. coal stocks on September 30, 1993, were 149 million short tons, 40 million short tons less than at the end of the previous quarter, primarily because of a draw-down of stocks by electric utilities and producers and distributors (Table 52). *Electric utility coal stocks on September 30, 1993, were 113 million short tons, a drop of 33 million short tons from the level on June 30, 1993, and the lowest end-of-quarter level since 1987. Producer and distributor stocks totaled 27 million short tons, a drop of 8 million short tons from the level on June 30, 1993, and the lowest end-of-quarter level since 1981.*

Sources: Energy Information Administration, *Electric Power Monthly,* December 1993 (DOE/EIA-0226(93/09));
Historical Monthly Energy Review 1973-1988, September 1991 (DOE/EIA-0035(73-88)).

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	6,016
April - June	228,160	500	35,197	193,529	24,208	188,013	2,538
July - September	222,827	623	32,632	213,937	25,831	176,195	-1,935
October - December	219,414	500	33,133	205,099	24,097	170,234	-3,823
Total	**883,638**	**1,952**		**818,049**	**92,680**		**2,797**
1986 January - March	227,974	485	38,024	206,233	17,245	166,398	3,925
April - June	220,001	576	38,148	188,673	24,170	176,018	-2,010
July - September	218,681	537	33,804	212,671	23,687	164,885	-1,663
October - December	223,659	614	32,093	196,654	20,416	175,226	-1,427
Total	**890,315**	**2,212**		**804,231**	**85,518**		**-1,175**
1987 January - March	222,199	331	36,560	199,523	16,576	173,173	4,017
April - June	218,823	483	33,939	199,627	20,113	176,037	-677
July - September	232,958	475	28,775	229,397	21,033	165,598	-1,395
October - December	244,782	459	28,321	208,394	21,885	185,459	-4,445
Total	**918,762**	**1,747**		**836,941**	**79,607**		**-2,499**
1988 January - March	236,889	542	36,764	220,787	16,061	175,279	2,320
April - June	226,645	587	36,079	205,735	24,900	173,308	-746
July - September	241,622	437	31,360	238,672	27,691	154,331	-607
October - December	245,109	567	30,418	218,448	26,371	158,413	-2,283
Total	**950,265**	**2,134**		**883,642**	**95,023**		**-1,316**
1989 January - March	247,179	531	35,508	223,486	21,429	149,238	6,882
April - June	239,022	687	30,598	208,025	28,445	159,013	-1,628
July - September	243,060	925	28,848	232,026	23,991	147,165	1,566
October - December	251,468	708	29,000	226,163	26,949	146,087	-8
Total	**980,729**	**2,851**		**889,699**	**100,815**		**6,811**
1990 January - March	264,184	735	35,099	217,014	22,383	160,782	4,727
April - June	254,279	674	36,895	211,666	27,733	173,061	1,479
July - September	254,760	514	33,659	240,821	29,497	161,639	-387
October - December	255,853	776	33,418	225,978	26,191	168,210	-1,870
Total	**1,029,076**	**2,699**		**895,480**	**105,804**		**3,949**
1991 January - March	254,746	938	42,162	219,208	22,318	171,485	2,140
April - June	237,006	730	41,054	208,757	26,214	173,663	1,696
July - September	251,438	984	33,628	236,093	31,197	163,860	2,360
October - December	252,794	738	32,971	223,562	29,239	167,711	-2,464
Total	**995,984**	**3,390**		**887,621**	**108,969**		**3,731**
1992 January - March	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	237,698	26,481	161,878	2,464
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	229,695	18,870	152,659	1,817
April - June	234,874	1,093	34,827	215,802	19,946	154,517	1,852
July - September	227,717	2,142	27,183	250,712	18,522	121,796	989
Total	**705,051**	**4,448**		**696,209**	**57,338**		**4,658**

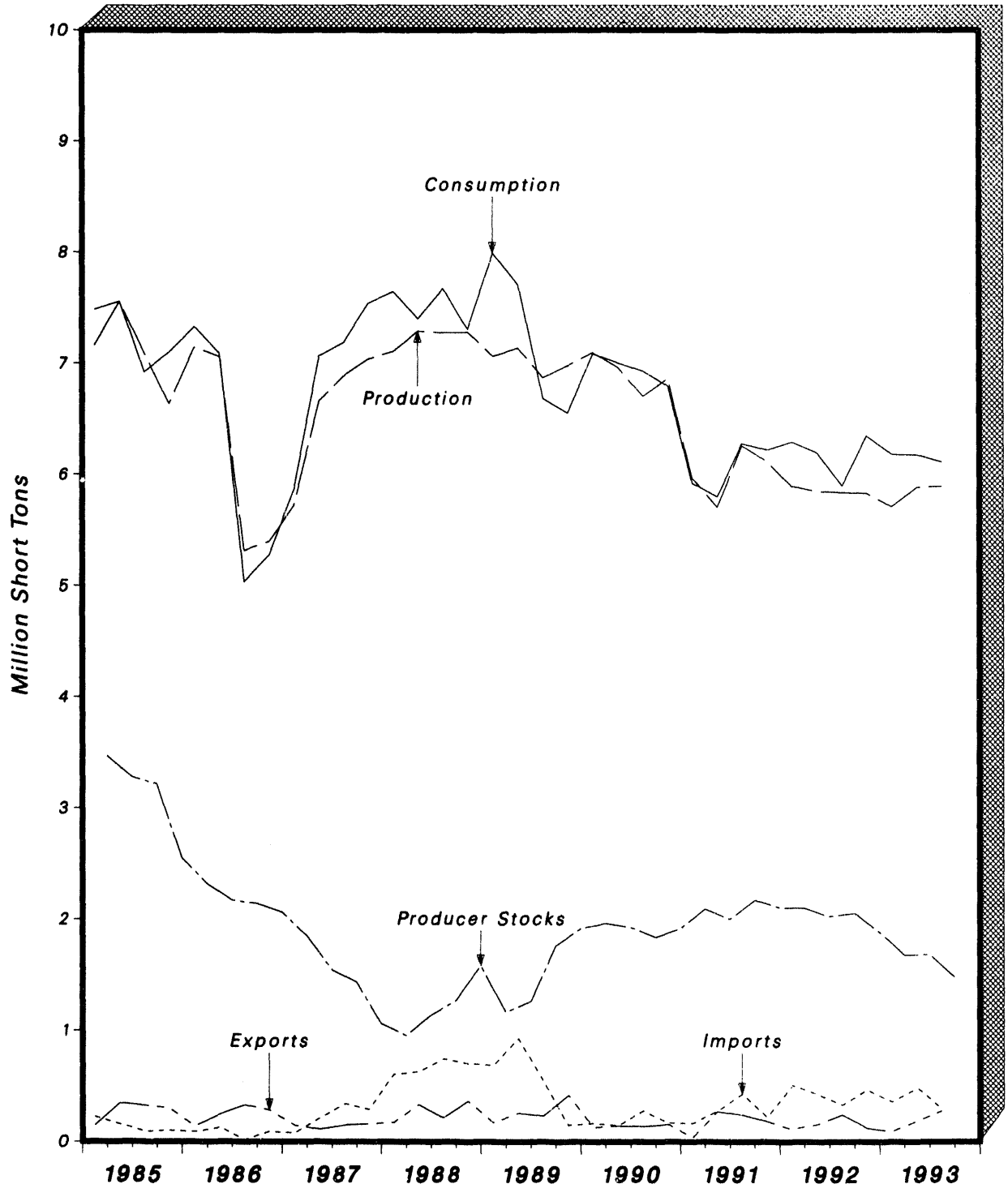
[1] Reported as of the last day of the quarter.

[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-5, "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	7,094	302
Total	**28,438**	**578**		**29,057**	**1,122**
1986 January - March	7,145	91	2,319	7,330	140
April - June	7,061	129	2,174	7,088	247
July - September	5,315	17	2,141	5,033	332
October - December	5,396	92	2,066	5,278	285
Total	**24,917**	**329**		**24,729**	**1,004**
1987 January - March	5,719	80	1,853	5,863	149
April - June	6,661	209	1,546	7,063	113
July - September	6,886	342	1,436	7,187	151
October - December	7,038	291	1,064	7,540	161
Total	**26,304**	**922**		**27,654**	**574**
1988 January - March	7,103	606	956	7,643	174
April - June	7,288	630	1,140	7,400	335
July - September	7,274	746	1,271	7,672	216
October - December	7,279	706	1,583	7,305	368
Total	**28,945**	**2,688**		**30,021**	**1,093**
1989 January - March	7,063	687	1,167	7,992	173
April - June	7,134	929	1,264	7,708	259
July - September	6,870	546	1,763	6,684	234
October - December	6,978	149	1,919	6,551	420
Total	**28,045**	**2,311**		**28,935**	**1,085**
1990 January - March	7,096	167	1,965	7,085	132
April - June	6,961	148	1,929	7,001	144
July - September	6,701	278	1,840	6,929	140
October - December	6,859	171	1,918	6,795	157
Total	**27,617**	**765**		**27,811**	**572**
1991 January - March	5,967	168	2,093	5,920	40
April - June	5,706	277	2,003	5,800	273
July - September	6,256	432	2,172	6,275	244
October - December	6,117	222	2,107	6,221	183
Total	**24,046**	**1,099**		**24,216**	**740**
1992 January - March	5,892	508	2,101	6,290	116
April - June	5,850	430	2,027	6,197	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
July - September	5,894	297	1,481	6,113	280
Total	**17,490**	**1,142**		**18,470**	**565**

[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. 3211	Internal Revenue Code of 1986 Amendment	Introduced on October 5, 1993, and referred to the House Ways and Means Committee.

H.R. 3211 would amend the Internal Revenue Code of 1986 to postpone payment of certain premiums required by the Coal Industry Retiree Benefits Act of 1992.

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	Amendment to Federal Coal Mine Health and Safety Act of 1969	Referred to the House Education and Labor Committee.
H.R. 804	Carbon Content Fuels Based Taxes Bill	Referred to the House Ways and Means Committee.
H.R. 2877	Federal Coal Equity Act of 1993	Referred to the House Natural Resources Committee.
H.R. 2980	Bituminous Coal Mining Industry Labor Law Amendment of 1993	Referred to the House Education and Labor Committee.

State Legislation Update

Illinois. 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 passed by the House on April 28, 1993, and sent to the Senate.

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

Coal Strike Ends As UMWA Members Ratify a New 5-Year Contract. Striking members of the United Mine Workers of America (UMWA) began returning to work on December 16, 1993, following ratification of a new 5-year agreement between the union and the Bituminous Coal Operators Association (BCOA). Sixty-five percent of the union's 60 thousand active and retired miners voted in favor of the agreement, ending an increasingly bitter 7-month strike that idled 16,200 UMWA miners in seven States.

The union's chief goals in the contract negotiations centered on increased job security for UMWA miners, while the coal companies represented by the BCOA sought more flexible work rules and new limits on health care expenditures. The terms of the new agreement suggest that both the union and the coal companies achieved some of their stated objectives.

Responding to the union's job security concerns, the agreement provides that the first three of every five new jobs will be awarded to laid-off and active UMWA miners, based upon seniority. Moreover, a separate Memorandum of Understanding addresses the issue of double-breasting by specifically extending the contract's job security terms to parent companies, subsidiaries, and other affiliates of the signatory companies.

The wage portions of the new agreement provide for pay increases totaling $1.30 per hour over 3 years, with an increase of 50 cents per hour effective upon ratification, followed by increases of 40 cents per hour on the second and third anniversaries of the agreement. Previously, wages for UMWA miners ranged up to $16.61 per hour. The new agreement also provides a $500 back-to-work bonus for members who were on strike and a retroactive pay raise for those who were not on strike.

The agreement includes some increases in health benefits for UMWA miners, including expanded coverage for eye care and dental care. But the agreement also addresses the BCOA's health care cost concerns by establishing a system of preferred health care providers, and by increasing the amounts of medical copayments and deductibles for which the miners will be responsible. Miners will receive a $1,000 annual bonus from their companies to offset the increased deductibles and copayments.

The agreement also includes terms intended to give coal companies greater operating flexibility at mines. Mine managers will be allowed to introduce alternative work rules and operating schedules, provided the changes are approved by a majority of the local union members and will result in more jobs.

The pact also provides for creation of a labor-management committee to address disagreements and to provide better communication between managers and workers.[1]

EPRI Study Sees Phase II Regulations Raising Demand for PRB and Central Appalachian Coals. Implementation of Phase II Clean Air Act (CAA) emission standards could push electric utility demand for low sulfur Powder River Basin (PRB) coal from 203 million short tons in 1991 to 320 million short tons annually after 2000, according to a new study by the Electric Power Research Institute (EPRI). The study, which provides ranges of demand estimates for major U.S. coal supply regions, projects that demand for Central Appalachian coal will increase as well, rising to 205 million tons per year after 2000 from 138 million short tons in 1991.

The study examines the various options available to electric utilities for Phase I and Phase II CAA compliance through 2004, and projects that up to 90 gigawatts of electric generating capacity will burn lower sulfur coal to achieve compliance in Phase II, which begins January 1, 2000. Based upon the capacity projections, the study provides ranges of coal demand estimates for 1995, representing the effects of Phase I compliance, and for 2000-2004, reflecting the coal demand effects of Phase II compliance.

According to the study, demand for Northern Appalachian coal will range between 105 million tons and 115 million tons annually throughout the forecast period, down slightly from the 119 million tons delivered in 1991. The study projects that demand for Illinois Basin coal will drop from 118 million tons in 1991 to between 95 and 110 million tons by 1995, and then fall

[1] "Tentative Pact Reached in Coal Miners' Strike," *New York Times* (New York, New York, December 8, 1993); "Proposed Coal Industry Pact Would Give Miners More Say," *New York Times* (New York, New York, December 9, 1993).

further to between 80 million tons and 95 million tons annually after 2000.[2]

Clinton Signs NAFTA. Following votes of approval by the House of Representatives and the Senate, President Clinton signed the North American Free Trade Agreement (NAFTA) into law on December 8, 1993. The agreement became effective on January 1, 1994, bringing an immediate end to the 10-percent tariff imposed by Mexico on imported coal. This could give U.S. coal exporters an advantage over competitors other than Canadian producers seeking to supply Mexico's steam coal market.[3]

Study Projects Declining Virginia Coal Production. Virginia coal production will peak in 1993 and then decline steadily over the next 10 years before leveling off after 2003, according to a recent study by the Virginia Polytechnic Institute's Department of Mining and Minerals Engineering.

The study's forecasts are based upon an analysis of historical production trends and the projected production schedules of 10 major Virginia coal producers representing about 70 percent of the State's current coal production. Other factors reflected in the study include projected foreign and domestic coal demand, the impacts of 1990 Clean Air Act Amendments, the effects of proposed State tax legislation, and estimates of the quantity and quality of the State's coal reserve base.

The study notes that three of Virginia's seven coal-producing counties reached peak production more than 25 years ago, and that production in the remaining four counties peaked within the past 7 years. Virginia currently has approximately 2 billion tons of recoverable coal reserves and it is unlikely that additional reserves will be discovered, according to the study.[4]

DOE Will Negotiate With Exxon for Coal Liquefaction Research. The U.S. Department of Energy (DOE) has announced plans to negotiate exclusively with Exxon Research and Development Laboratories for coal liquefaction research. The subject of the negotiations is a project that will test slurry phase catalysts for direct liquefaction currently being developed in separate DOE-sponsored research programs.

The Exxon unit, based in Baton Rouge, Louisiana, was selected for the exclusive negotiations because the company offers a unique, fully automated facility for coal liquefaction research. The facility is designed for continuous, long-term testing through various project phases from bench scale through pilot plant.[5]

U.S. Proposes Rules on Damage Caused by Coal Mining. Coal producers would be required to repair damage to buildings caused when underground coal mines sink or collapse, according to regulations recently proposed by the U.S. Department of the Interior. The new rules, which address a variety of problems tied to coal mine subsidence, would also require coal producers to replace water supplies polluted by underground coal mining activities. The rules were issued under provisions of the 1992 Energy Policy Act and will apply only to underground mining activities conducted after October 24, 1992.[6]

Pittston Will Buy Coal Assets from Addington Resources. The Pittston Minerals Group, a unit of the Pittston Company, has announced that it will buy most of the coal mining assets and coal sales contracts of Addington Resources Inc. for $157 million. According to Pittston officials, the acquisition will add 8.5 million tons annually to Pittston's production, an increase of 50 percent.

All of the properties to be acquired by Pittston are located in West Virginia, Kentucky, and Ohio. Addington Resources will retain four east Kentucky mines with an annual capacity of 3 million tons.[7]

New England Company To Test Coal Ash Recycling Technology. The New England Power Company is set to begin full-scale testing of a new carbon separation process for recycling coal ash. The process, which was developed by Separation Technologies, Inc., of Needham, Massachusetts, converts the coal ash into two valuable byproducts, reducing the utility's waste disposal costs and creating a new source of revenue.

The process, which will be tested an the utility's Salem Harbor station, begins as the coal ash is dumped into a hopper where the component particles interact. The carbon particles in the ash develop a positive charge while the inorganic components develop a negative charge.

The charged particles are then moved swiftly through a magnetic field in a separator where the positively charged carbon particles are pulled toward a negative electrode and the negatively charged inorganic particles move toward a positive electrode. Finally, two belts moving in opposite directions sweep the particles into separate bins.

Preliminary tests on coal ash with a 18.5-percent carbon content produced one product with 84 percent carbon and a second product with less than 3 percent

[2] "Acid Rain Regs Increase Demand for PRB, Central App. Coals," *Coal Transportation Report* (Washington, D.C., November 29, 1993), p. 4.

[3] "Senate Approval of NAFTA Expected By Thanksgiving," *Coal News* (Washington, D.C., November 22, 1993), p. 1.

[4] "Study Predicts Decreased Virginia Coal Production," *Coal Transportation Report* (Washington, D.C., October 18, 1993), p. 10.

[5] "DOE Sets Contract With Exxon on Coal Liquefaction," *Coal Week* (Washington, D.C., October 4, 1993), p. 8.

[6] "U.S. Proposes Rules on Coal Mine Damage," *Wall Street Journal* (New York, New York, September 27, 1993). p. A10.

[7] "Pittston to Acquire Addington Resources Coal Mining Assets," *Wall Street Journal* (New York, New York, September 28, 1993), p. B4.

carbon. Utility officials say the high- carbon product can be fed back into the boilers to reduce fuel demand, while the low-carbon product can be sold for up to $15 per ton as an additive for cement.[8]

EPA Issues Final Emissions Regulations for Coke Plants. The Environmental Protection Agency (EPA) has issued final regulations establishing Clean Air Act emission standards for the Nation's 30 coke plants. The regulations, which were published October 27, 1993, in the *Federal Register*, provide 2 compliance options.

The first option, termed Maximum Available Control Technology (MACT), applies to both new and existing coke plants and requires installation of the best available current pollution control technology. The compliance deadline for this option is December 31, 1995.

The second option, known as the Lowest Achievable Emission Rate (LAER), applies only to existing plants and requires better maintenance and repair of current equipment. A plant electing this method must comply by November 15, 1993.

The overall cost of the new regulations will depend upon the mix of options selected. According to EPA estimates, applying the first method to all coke plants would result in capital costs of $66 million and annualized costs of $25 million. By comparison, the agency estimates that applying the second option to all coke plants would mean capital costs of $510 million and annualized costs of $84 million.[9]

SSA Issues Final Rules on Funding of Benefits for Retired UMWA Miners. The Social Security Administration (SSA) has issued final rules assigning certain coal companies responsibility for funding health and death benefits for retired members of the United Mine Workers of America (UMWA). The rules, which were published October 13, 1993, in the *Federal Register*, fulfill a requirement contained in the Energy Policy Act of 1992.

Prior to enactment of the Energy Policy Act of 1992, health and death benefits for retired UMWA miners were paid from coal operator contributions to 2 separate UMWA Benefit Plans. The plans were established under the terms of wage agreements between the UMWA and coal operators signed in 1950 and 1974.

Some of these coal operators stopped contributing to the funds, either because they did not renew their agreements with the union or because they went out of business. Consequently, with contributions to the funds declining as benefit payments rose, the funds began to run large deficits.

Title XIX of the Energy Policy Act of 1992 addressed this problem by merging the 1950 and 1974 UMWA Benefit Plans into a single Combined Benefit Plan, and by establishing a funding mechanism designed to ensure the new Plan remains solvent. Among other provisions, the law directed the U.S. Department of Health and Human Services, acting through the SSA, to set rules assigning each retired miner eligible for Plan benefits to a specific coal operator. Additionally, each of the affected coal companies will be responsible for a pro rata share of the premiums for a pool of unassigned retirees.[10]

Cyprus and Amax Complete Merger. The Cyprus Minerals Company and AMAX Incorporated completed their previous announced merger on November 12, 1993. The new company formed by the merger, Cyprus AMAX Minerals Company, will have annual sales of $2.8 billion and assets of $5 billion, including coal reserves totaling 3 billion short tons worldwide. The company's U.S. coal mining operations are expected to produce approximately 65 million short tons of coal annually, placing the company second to the Peabody Coal Company among U.S. coal producers.[11]

ICC Data Show Declining Rail Productivity in 1990 and 1991. The productivity of U.S. railroads declined slightly during 1990 and then fell sharply during 1991, according to data released by the Interstate Commerce Commission (ICC). The declining productivity will generally translate into lower rates for shippers in the short term because the ICC formula for setting rail rates typically results in rates that vary directly with railroad productivity.

In publishing the productivity data for 1990 and 1991, the ICC also confirmed an earlier decision to use a five-year rolling average in calculating the Productivity Adjustment Factor (PAF), a key component in the ratemaking formula. The decision is a disappointment for railroad officials, who generally oppose including any measure of productivity in the rate calculations.[12]

Union Pacific Announces Central Corridor Expansion Plans. The Union Pacific Railroad (UP) has announced plans for 3 major construction projects intended to speed the movement of Powder River Basin (PRB) coal through the system's central corridor in Nebraska, Kansas, and Missouri. The projects are part of a five-year, $267 million capital improvement program to increase system capacity in anticipation of growing demand for PRB coal.

The projects include conversion of 14 miles of double-track mainline east of North Platte, Nebraska, to triple-

[8] "From the Ashes, A Plus for A Utility," *New York Times* (New York, New York, November 24, 1993), p. D5.
[9] "EPA Issues Final Coke Oven Regulations," *Coal Week* (Washington, D.C., November 8, 1993), p. 8.
[10] "Social Security Administration Issues Miner Benefit Rule; Seeks Comment," *Coal Week* (Washington, D.C., October 18, 1993), p. 8.
[11] "Cyprus Amax Now No. 2 Coal Producer in the U.S.," *Coal Transportation Report* (Washington, D.C., November 29, 1993), p.1. "Cyprus, AMAX Decide To Go The Merger Route," *Coal Outlook* (Arlington, Virginia, May 31, 1993), p.1.
[12] "Five-Year Rolling Average Confirmed for PAF," *Coal Transportation Report* (Washington, D.C., November 29, 1993), p. 1.

track. The conversion, which is scheduled for completion by 1995, will extend the 9 miles of triple-track conversion previously completed west of North Platte and is expected to cost $18 million.

Also included in the expansion plans is construction of a 5.4 mile double-track bypass around Hastings, Nebraska, a $30 million project that is expected to improve system efficiency by raising the transit speed around the city to 60 mph from 30 mph. The railroad will also install 14 new sidings, each with a capacity of at least 8,000 feet, between South Morrill, Nebraska, and Kansas City, Missouri.[13]

EIA Releases Report on Availability of Transportation Rate Data. Responding to a requirement contained in the 1992 Energy Policy Act, the Energy Information Administration (EIA) has published a review of currently available Federal data on rail and pipeline transportation rates for coal, oil, and natural gas. The study, titled "Energy Policy Act Transportation Rate Study," concludes that availability of the rate data varies considerably among the three fuels, and offers options for supplementing the existing information sources.

Among the sources of coal transportation rate information examined in the study is the Coal Transportation Rate Data Base (CTRDB) maintained by the EIA. The CTRDB was compiled by the EIA from information gathered on Federal Energy Regulatory Commission (FERC) Form 580, "Interrogatory on Fuel and Energy Purchase Practices," a biennial survey of transportation rates paid by interstate, investor-owned electric utilities for delivery of fuel purchased under contract. The CTRDB information currently covers about 58 percent of all coal delivered to these electric utilities and includes data for 1979 through 1991.

The EIA study concludes that FERC Form 580 collects all of the data elements required for analyses of the coal transportation rates paid by the reporting electric utilities, but notes that the CTRDB lacks some of these elements, because portions of the FERC Form 580 information are withheld by FERC at the utilities' request to maintain confidentiality. After examining other options for obtaining transportation rate data, including expansion of existing EIA and FERC coal consumption surveys, the EIA report recommends a data sharing arrangement with FERC, whereby the currently withheld FERC Form 580 information would be available to the EIA for analyses so long as confidentiality is preserved.[14]

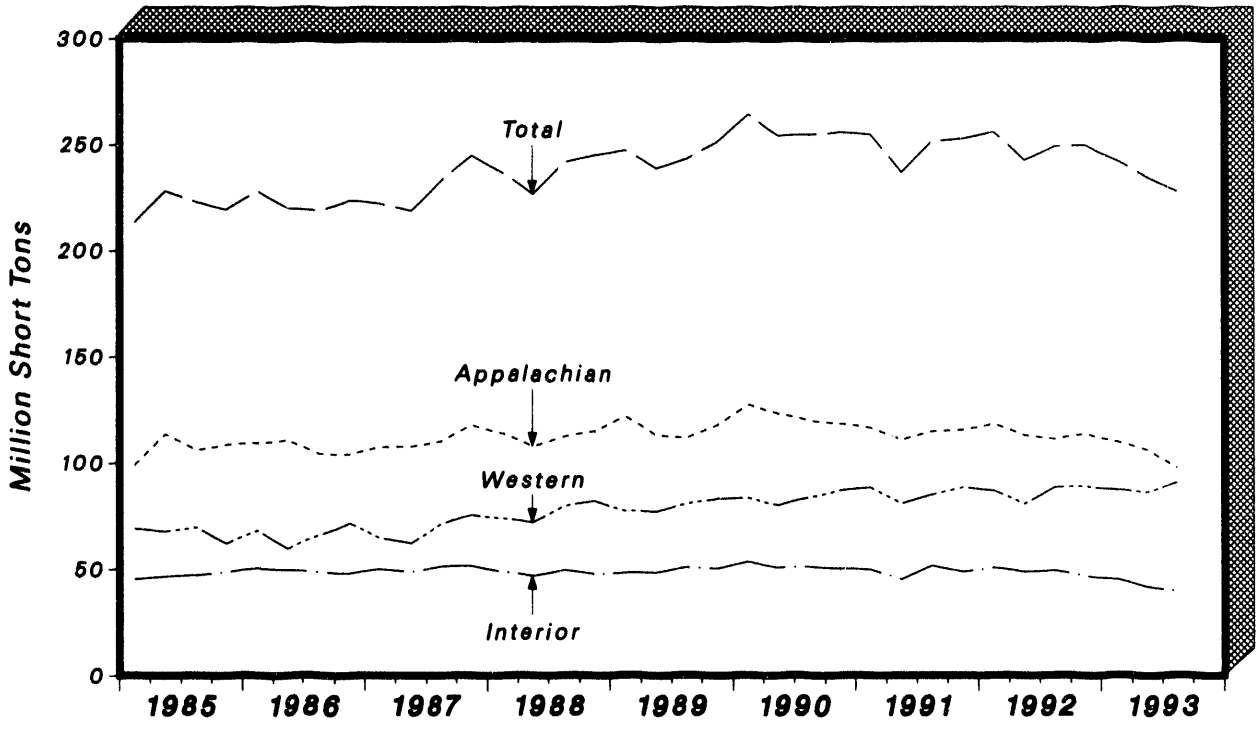
[13] "UP Expands Central Corridor To Handle Increased PRB Traffic," *Coal Transportation Report* (Washington, D.C., November 29, 1993), p.2.

[14] "EIA Releases Initial Study on Rate Data Availability," *Coal Transportation Report* (Washington, D.C., November 29, 1993), p. 7.

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	226,645	241,622	245,109	950,265
1989	247,179	239,022	243,060	251,468	980,729
1990	264,184	254,279	254,760	255,853	1,029,076
1991	254,746	237,006	251,438	252,794	995,984
1992	255,956	242,735	249,055	249,799	997,545
1993	242,460	234,874	227,717	NA	705,051

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	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
Alabama	5,902	6,555	5,787	18,709	19,120	-2.1
Alaska	374	369	296	1,163	1,069	8.8
Arizona	3,209	2,526	3,132	8,675	9,515	-8.8
Arkansas	8	6	18	18	45	-60.7
California	-	-	29	-	59	-
Colorado	5,247	4,981	5,047	15,186	14,234	6.7
Illinois	7,475	10,354	14,323	31,629	45,650	-30.7
Indiana	7,230	7,310	7,113	21,825	23,570	-7.4
Iowa	41	36	76	130	228	-42.7
Kansas	74	91	88	266	261	1.9
Kentucky Total	40,596	39,541	40,585	119,160	120,752	-1.3
Eastern	32,449	30,285	30,148	92,316	89,302	3.4
Western	8,149	9,256	10,437	26,844	31,449	-14.6
Louisiana	880	736	958	2,360	2,460	-4.1
Maryland	951	869	601	2,707	2,462	9.9
Missouri	128	84	774	450	2,263	-80.1
Montana	9,359	7,287	10,896	26,111	28,629	-8.8
New Mexico	7,370	6,518	6,568	21,108	17,796	18.6
North Dakota	7,981	7,622	7,648	23,805	23,224	2.5
Ohio	6,145	6,611	7,591	20,297	22,992	-11.7
Oklahoma	634	559	491	1,686	1,340	25.8
Pennsylvania Total	12,587	14,773	16,888	43,681	52,442	-16.7
Anthracite	774	837	937	2,440	2,550	-4.3
Bituminous	11,812	13,935	15,950	41,240	49,892	-17.3
Tennessee	655	650	899	1,909	2,627	-27.3
Texas	14,831	13,518	15,026	41,399	41,569	-.4
Utah	5,091	5,414	4,295	15,699	15,417	1.8
Virginia	9,762	10,833	10,435	31,437	32,187	-2.3
Washington	1,212	1,051	1,332	3,452	4,012	-14.0
West Virginia Total	29,140	35,863	38,894	102,918	121,564	-15.3
Northern	6,396	9,969	12,292	27,164	37,527	-27.6
Southern	22,744	25,894	26,603	75,754	84,037	-9.9
Wyoming	50,835	50,720	49,263	149,270	142,260	4.9
Appalachian Total	**97,590**	**106,438**	**111,244**	**313,975**	**342,697**	**-8.4**
Interior Total	**39,450**	**41,950**	**49,305**	**126,607**	**148,834**	**-14.9**
Western Total	**90,677**	**86,487**	**88,506**	**264,469**	**256,215**	**3.2**
East of the Miss. River	**120,444**	**133,358**	**143,117**	**394,273**	**443,366**	**-11.1**
West of the Miss. River	**107,273**	**101,516**	**105,938**	**310,778**	**304,380**	**2.1**
U.S. Total	**227,717**	**234,874**	**249,055**	**705,051**	**747,746**	**-5.7**

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)

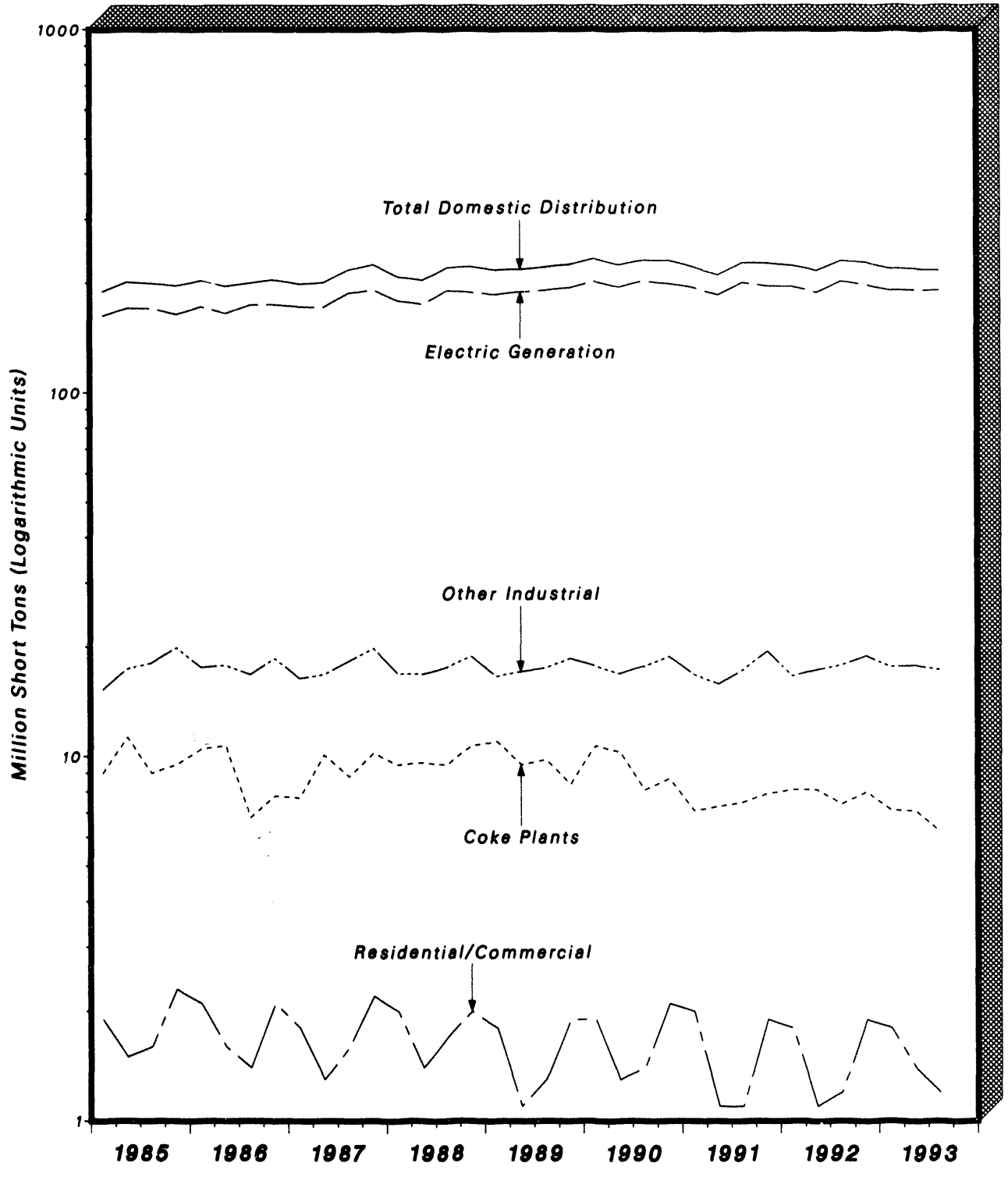
Production	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
Coke Total	**5,894**	**5,885**	**5,837**	**17,490**	**17,579**	**-0.5**
By State						
Alabama	606	613	612	1,816	1,870	-2.8
Illinois	w	w	w	w	w	w
Indiana	1,442	1,492	1,331	4,398	4,204	4.6
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	489	505	699	1,505	2,089	-28.0
Pennsylvania	1,916	1,754	1,765	5,405	5,154	4.9
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	790	819	811	2,405	2,445	-1.6
Furnace Coke Plants	5,104	5,066	5,026	15,085	15,134	-.3
Breeze Total	**1,305**	**339**	**470**	**1,977**	**1,325**	**49.2**

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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Alabama	6,276	6,517	6,339	19,017	19,313	-1.5
Alaska	400	390	277	1,212	1,072	13.1
Arizona	3,385	2,460	3,226	8,699	9,408	-7.5
Arkansas	6	8	11	19	25	-23.7
California	-	-	32	-	112	-
Colorado	5,538	5,221	5,116	15,100	13,799	9.4
Illinois	7,629	11,342	14,881	32,799	44,668	-26.6
Indiana	7,406	7,398	7,458	22,286	24,105	-7.5
Iowa	41	36	76	130	226	-42.4
Kansas	76	94	89	266	252	5.5
Kentucky Total	41,673	40,218	42,454	119,667	120,949	-1.1
Eastern	33,500	30,611	31,847	92,622	89,694	3.3
Western	8,173	9,607	10,607	27,045	31,255	-13.5
Louisiana	880	738	944	2,360	2,432	-3.0
Maryland	984	720	936	2,516	2,600	-3.2
Missouri	128	84	749	450	2,191	-79.5
Montana	9,397	7,319	10,571	26,148	28,410	-8.0
New Mexico	7,334	6,536	6,695	20,454	17,936	14.0
North Dakota	8,305	7,565	7,787	23,839	23,172	2.9
Ohio	6,178	6,730	7,278	20,703	22,499	-8.0
Oklahoma	634	560	530	1,696	1,440	17.7
Pennsylvania Total	12,747	15,328	17,232	44,408	51,218	-13.3
Anthracite	758	805	951	2,368	2,583	-8.3
Bituminous	11,988	14,523	16,281	42,040	48,635	-13.6
Tennessee	601	663	711	1,849	2,120	-12.8
Texas	14,675	13,521	15,035	41,231	41,165	.2
Utah	5,385	4,972	4,865	16,097	15,049	6.9
Virginia	10,074	11,006	11,354	31,428	34,161	-8.0
Washington	1,197	1,049	1,316	3,432	4,022	-14.7
West Virginia Total	31,561	37,579	39,365	106,367	122,445	-13.1
Northern	7,221	10,904	11,823	29,306	37,805	-22.5
Southern	24,340	26,675	27,542	77,061	84,640	-9.0
Wyoming	52,482	50,577	49,732	150,459	142,544	5.6
Appalachian Total	**101,920**	**109,154**	**115,062**	**318,911**	**344,049**	**-7.3**
Interior Total	**39,648**	**43,388**	**50,379**	**128,292**	**147,761**	**-13.2**
Western Total	**93,423**	**86,088**	**89,618**	**265,435**	**255,525**	**3.9**
East of the Miss. River	**125,128**	**137,500**	**148,007**	**401,041**	**444,078**	**-9.7**
West of the Miss. River	**109,863**	**101,129**	**107,052**	**311,587**	**303,257**	**2.7**
U.S. Total	**234,991**	**238,629**	**255,060**	**712,627**	**747,335**	**-4.6**

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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Sector: Electric Generation						
Alabama	3,890	4,284	4,055	12,204	11,860	2.9
Alaska	70	58	62	208	201	3.5
Arizona	3,385	2,460	3,226	8,699	9,408	-7.5
California	-	-	26	-	86	-
Colorado	4,488	4,455	4,508	12,593	12,452	1.1
Illinois	6,637	9,822	13,296	28,559	40,078	-28.7
Indiana	6,265	6,339	6,334	19,058	20,849	-8.6
Iowa	26	19	76	51	226	-77.5
Kansas	52	75	61	195	185	5.8
Kentucky Total	33,145	31,699	32,822	93,988	92,569	1.5
Eastern	25,180	22,431	22,560	67,730	62,205	8.9
Western	7,966	9,268	10,262	26,258	30,364	-13.5
Louisiana	880	738	944	2,360	2,432	-3.0
Maryland	845	640	757	2,101	2,103	-.1
Missouri	71	25	719	281	2,086	-86.5
Montana	9,076	7,224	10,309	25,248	27,503	-8.2
New Mexico	7,124	6,368	6,503	19,878	17,489	13.7
North Dakota	6,817	5,953	6,218	18,971	18,331	3.5
Ohio	5,644	6,073	6,718	18,757	20,529	-8.6
Oklahoma	282	251	315	778	893	-12.9
Pennsylvania Total	9,716	11,465	12,716	33,678	37,544	-10.3
Anthracite	411	385	371	1,121	839	33.6
Bituminous	9,305	11,080	12,345	32,557	36,705	-11.3
Tennessee	415	444	489	1,228	1,430	-14.1
Texas	14,508	12,643	14,326	39,309	38,832	1.2
Utah	3,417	3,633	3,177	10,887	10,173	7.0
Virginia	4,154	4,183	3,423	12,022	11,115	8.2
Washington	1,156	1,010	1,262	3,339	3,779	-11.6
West Virginia Total	18,009	22,008	21,334	61,773	65,133	-5.2
Northern	5,774	8,760	9,391	24,244	30,122	-19.5
Southern	12,235	13,249	11,942	37,529	35,011	7.2
Wyoming	50,611	49,168	47,989	145,861	137,930	5.8
Appalachian Total	**67,853**	**71,529**	**72,052**	**209,493**	**211,919**	**-1.1**
Interior Total	**36,687**	**39,179**	**46,334**	**116,848**	**135,946**	**-14.0**
Western Total	**86,145**	**80,328**	**83,279**	**245,685**	**237,351**	**3.5**
East of the Miss. River	**88,721**	**96,957**	**101,945**	**283,367**	**303,211**	**-6.5**
West of the Miss. River	**101,963**	**94,079**	**99,720**	**288,659**	**282,006**	**2.4**
U.S. Total	**190,684**	**191,036**	**201,665**	**572,026**	**585,216**	**-2.3**
Sector: Coke Plants						
Alabama	300	333	480	974	1,323	-26.4
Colorado	16	43	40	131	71	85.9
Illinois	-	97	126	240	421	-43.0
Indiana	-	-	-	35	-	-
Kentucky Total	983	1,507	1,336	3,785	3,818	-.9
Eastern	983	1,507	1,336	3,785	3,818	-.9
Pennsylvania Total	341	552	889	1,609	2,729	-41.0
Anthracite	1	-	-	1	3	-82.9
Bituminous	340	552	889	1,609	2,725	-41.0
Utah	164	163	117	432	347	24.5
Virginia	1,806	1,979	2,020	5,603	6,054	-7.4
West Virginia Total	2,635	2,390	2,363	7,601	8,763	-13.3
Northern	-	-	1	-	37	-
Southern	2,635	2,390	2,362	7,601	8,726	-12.9
Wyoming	-	22	-	22	-	-
Appalachian Total	**6,065**	**6,762**	**7,068**	**19,572**	**22,686**	**-13.7**
Interior Total	**-**	**97**	**126**	**275**	**421**	**-34.7**
Western Total	**180**	**228**	**157**	**585**	**418**	**40.1**
East of the Miss. River	**6,065**	**6,858**	**7,214**	**19,847**	**23,107**	**-14.1**
West of the Miss. River	**180**	**228**	**157**	**585**	**418**	**40.1**
U.S. Total	**6,245**	**7,086**	**7,371**	**20,433**	**23,525**	**-13.1**

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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Sector: Industrial Plants (Except Coke)						
Alabama	413	485	495	1,335	1,467	-9.0
Arkansas	6	8	11	19	25	-23.7
California	-	-	7	-	26	-
Colorado	585	426	402	1,396	959	45.6
Illinois	776	1,047	1,069	3,122	3,005	3.9
Indiana	1,017	958	947	2,739	2,706	1.2
Iowa	16	17	-	80	-	-
Kansas	22	18	27	66	54	21.5
Kentucky Total	4,191	3,837	4,079	11,794	11,536	2.2
Eastern	4,042	3,560	3,836	11,229	10,953	2.5
Western	149	276	243	565	583	-3.1
Maryland	75	67	87	208	265	-21.5
Missouri	37	33	5	78	22	260.0
Montana	230	84	249	761	796	-4.3
New Mexico	210	168	187	572	439	30.5
North Dakota	1,484	1,604	1,564	4,810	4,797	.3
Ohio	403	431	504	1,312	1,676	-21.7
Oklahoma	351	309	202	905	533	69.7
Pennsylvania Total	1,205	1,153	1,105	3,454	3,358	2.9
Anthracite	66	77	171	231	470	-50.8
Bituminous	1,139	1,075	934	3,223	2,888	11.6
Tennessee	166	198	191	561	606	-7.4
Texas	167	878	708	1,922	2,332	-17.6
Utah	929	907	979	2,465	2,868	-14.1
Virginia	867	828	920	2,749	2,990	-8.1
Washington	15	13	12	41	25	65.4
West Virginia Total	2,547	3,062	2,678	7,944	7,686	3.4
Northern	605	706	787	1,956	2,184	-10.4
Southern	1,942	2,356	1,891	5,988	5,503	8.8
Wyoming	1,583	1,131	1,351	3,808	3,498	8.9
Appalachian Total	**9,719**	**9,783**	**9,816**	**28,792**	**29,001**	**-.7**
Interior Total	**2,540**	**3,545**	**3,212**	**9,495**	**9,261**	**2.5**
Western Total	**5,036**	**4,333**	**4,752**	**13,853**	**13,407**	**3.3**
East of the Miss. River	**11,660**	**12,065**	**12,075**	**35,217**	**35,295**	**-.2**
West of the Miss. River	**5,635**	**5,596**	**5,706**	**16,924**	**16,374**	**3.4**
U.S. Total	**17,295**	**17,661**	**17,781**	**52,141**	**51,669**	**.9**
Sector: Residential and Commercial						
Alabama	11	2	19	35	60	-42.3
Alaska	107	140	96	408	358	14.1
Colorado	122	37	21	177	83	112.3
Illinois	70	61	69	249	209	19.2
Indiana	40	58	66	256	244	4.8
Kansas	2	*	1	5	5	4.6
Kentucky Total	234	481	240	1,230	687	79.1
Eastern	229	457	221	1,187	624	90.2
Western	5	24	19	42	62	-31.7
Maryland	*	*	*	1	1	-14.8
Missouri	20	19	26	69	72	-5.0
Montana	9	8	8	37	44	-16.4
New Mexico	-	*	-	4	4	11.1
North Dakota	2	5	4	55	45	23.2
Ohio	75	75	40	283	212	33.1
Oklahoma	*	*	*	*	1	-44.3
Pennsylvania Total	224	273	425	951	1,421	-33.1
Anthracite	171	186	263	682	962	-29.1
Bituminous	54	87	162	269	459	-41.5
Tennessee	6	6	19	19	46	-59.8
Utah	78	77	36	244	209	16.9
Virginia	13	49	26	91	55	65.6
Washington	*	-	-	*	*	NM
West Virginia Total	100	288	132	557	398	39.9
Northern	12	96	6	127	32	292.5
Southern	88	192	126	430	366	17.5
Wyoming	66	15	8	155	75	105.9

See footnotes at end of table.

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

Coal-Producing Region and State	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
	Sector: Residential and Commercial (Continued)					
Appalachian Total	658	1,149	881	3,123	2,818	10.8
Interior Total	137	162	181	621	593	4.8
Western Total	383	282	174	1,079	817	32.1
East of the Miss. River	773	1,291	1,036	3,670	3,333	10.1
West of the Miss. River	406	301	200	1,153	894	28.9
U.S. Total	1,178	1,593	1,236	4,823	4,228	14.1

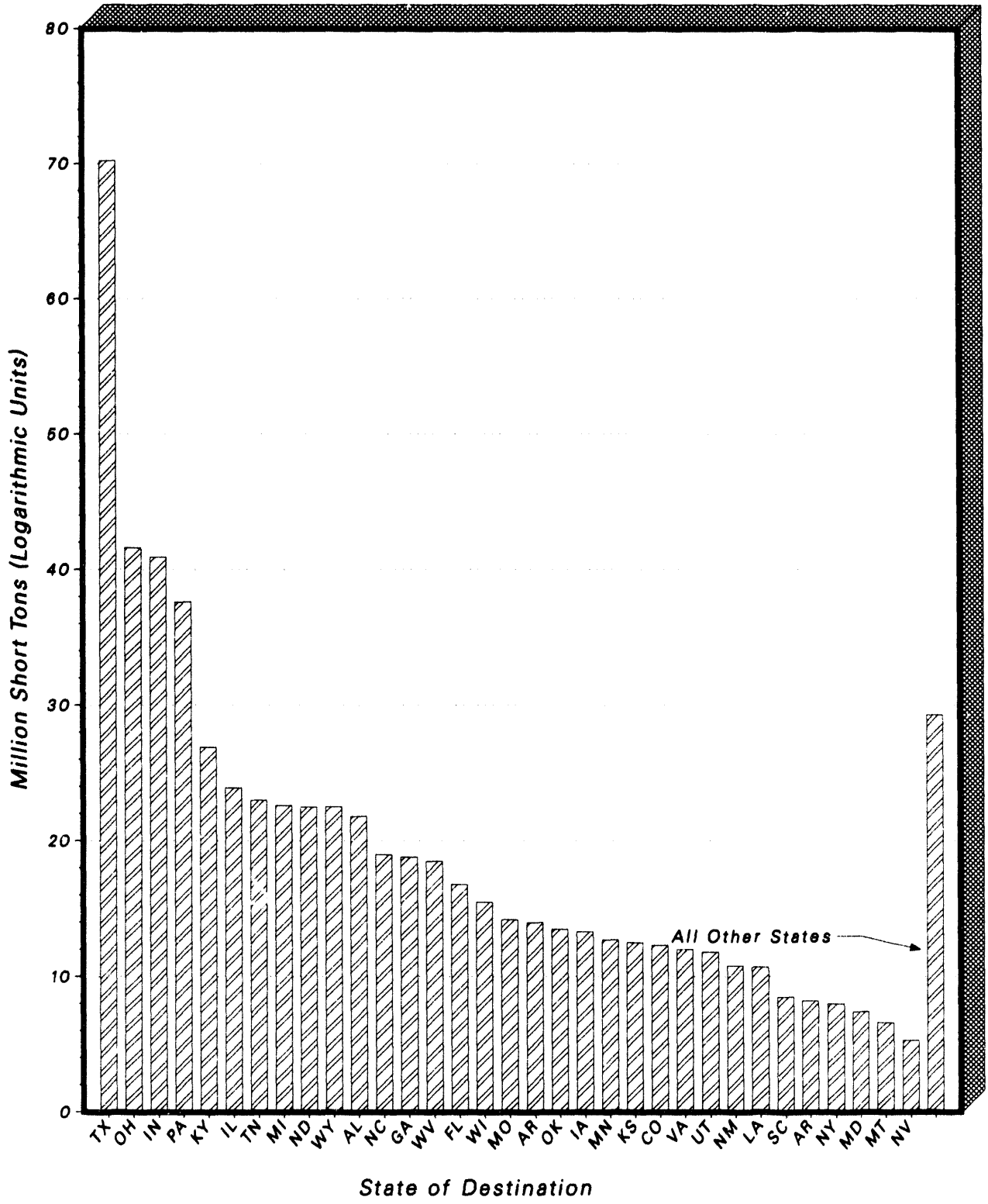
* Quantity is less than 500 short tons or percent is less than .05.
NM Not meaningful as value is greater than or equal to 500.
Notes: Total may not equal sum of components because of independent rounding. Sectors do not sum to total distribution due to deliveries to unknown sectors.
Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Table 8. Foreign Distribution of U.S. Coal by Origin State, January-September 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	-	-	-	-	-	4,398	4,398
Alaska	-	-	-	-	-	597	597
Colorado	-	-	-	-	-	746	746
Illinois	-	-	-	-	-	590	590
Indiana	-	-	-	-	-	138	138
Kentucky Total	-	761	271	40	1,073	6,136	7,208
Eastern	-	761	271	40	1,073	6,013	7,086
Western	-	-	-	-	-	123	123
Maryland	-	-	-	-	-	177	177
Montana	11	-	-	-	11	67	78
Oklahoma	-	-	-	-	-	11	11
Pennsylvania Total	*	4	476	1	481	3,756	4,237
Anthracite	-	4	212	1	217	19	235
Bituminous	*	-	264	-	264	3,737	4,001
Utah	78	-	268	*	346	1,699	2,046
Virginia	55	782	131	-	968	9,839	10,807
Washington	-	-	*	-	*	51	52
West Virginia Total	2,584	1,122	21	-	3,727	23,128	26,855
Northern	919	-	-	-	919	1,268	2,187
Southern	1,665	1,122	21	-	2,807	21,860	24,668
Wyoming	-	-	-	-	-	607	607
Appalachian Total	2,639	2,669	899	41	6,248	47,311	53,560
Interior Total	-	-	-	-	-	862	862
Western Total	89	-	268	*	358	3,767	4,125
East of the Miss. River	2,639	2,669	899	41	6,248	48,162	54,410
West of the Miss. River	89	-	268	*	358	3,779	4,136
U.S. Total	2,728	2,669	1,167	41	6,606	51,941	58,546

[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-September 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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
New England Total	**1,018**	**1,092**	**1,851**	**3,280**	**5,881**	**-44.2**
Connecticut	170	197	209	593	746	-20.5
Maine	101	138	193	255	660	-61.3
Massachusetts	443	522	1,126	1,485	3,591	-58.7
New Hampshire	301	235	316	941	867	8.6
Rhode Island	1	*	1	2	3	-27.2
Vermont	2	*	6	4	16	-72.9
Middle Atlantic Total	**14,155**	**15,870**	**16,160**	**47,198**	**54,744**	**-13.8**
New Jersey	385	550	422	1,651	1,743	-5.3
New York	2,627	2,473	3,493	8,047	10,284	-21.7
Pennsylvania	11,143	12,848	14,244	37,500	42,718	-12.2
East North Central Total	**47,078**	**49,161**	**50,772**	**144,297**	**152,570**	**-5.4**
Illinois	8,413	7,654	7,897	23,842	23,571	1.1
Indiana	12,752	14,081	14,894	40,909	46,475	-12.0
Michigan	7,944	7,936	8,172	22,571	22,794	-1.0
Ohio	12,661	13,922	14,209	41,487	44,047	-5.8
Wisconsin	5,309	5,588	5,601	15,487	15,683	-1.2
West North Central Total	**27,810**	**28,203**	**28,604**	**83,654**	**85,224**	**-1.8**
Iowa	4,753	5,076	4,538	13,328	13,705	-2.8
Kansas	4,423	4,510	3,156	12,544	10,991	14.1
Minnesota	4,090	3,886	4,346	12,718	12,164	4.6
Missouri	4,006	4,943	6,420	14,213	18,552	-23.4
Nebraska	2,052	2,076	2,146	6,412	6,056	5.9
North Dakota	7,938	7,008	7,429	22,541	21,955	2.7
South Dakota	549	703	568	1,897	1,800	5.4
South Atlantic Total	**34,506**	**36,603**	**36,714**	**106,599**	**106,423**	**.2**
Delaware	554	695	517	1,695	1,375	23.3
District of Columbia	1	17	6	44	38	17.5
Florida	4,990	6,195	6,218	16,833	18,306	-8.0
Georgia	6,635	6,235	6,305	18,824	16,980	10.9
Maryland	2,333	2,432	2,471	7,354	7,081	3.9
North Carolina	6,672	6,507	7,120	18,999	18,581	2.3
South Carolina	3,102	2,643	2,874	8,483	8,369	1.4
Virginia	3,932	3,863	3,479	12,025	11,127	8.1
West Virginia	6,288	8,018	7,724	22,341	24,567	-9.1
East South Central Total	**23,333**	**25,559**	**23,484**	**74,351**	**68,526**	**8.5**
Alabama	6,570	7,794	7,698	21,820	21,185	3.0
Kentucky	9,557	8,443	8,524	26,964	24,647	9.4
Mississippi	703	1,073	897	2,567	3,173	-19.1
Tennessee	6,503	8,249	6,365	23,001	19,522	17.8
West South Central Total	**36,459**	**34,714**	**36,896**	**102,655**	**101,061**	**1.6**
Arkansas	2,778	2,851	2,896	8,241	8,594	-4.1
Louisiana	3,541	3,713	3,836	10,667	10,398	2.6
Oklahoma	4,590	4,244	5,157	13,528	13,259	2.0
Texas	25,550	23,906	25,006	70,219	68,811	2.0
Mountain Total	**28,321**	**23,719**	**28,393**	**79,551**	**81,633**	**-2.5**
Arizona	5,190	4,358	4,541	13,963	12,673	10.2
Colorado	4,185	3,881	4,234	12,268	12,475	-1.7
Idaho	140	98	145	302	320	-5.4
Montana	2,826	895	3,131	6,559	8,157	-19.6
Nevada	1,910	1,502	2,137	5,285	6,031	-12.4
New Mexico	3,976	3,428	3,925	10,839	10,776	.6
Utah	3,688	4,033	3,467	11,807	11,071	6.7
Wyoming	6,407	5,522	6,813	18,527	20,131	-8.0
Pacific Total	**2,730**	**2,439**	**3,183**	**7,851**	**8,608**	**-8.8**
Alaska	177	198	158	616	558	10.3
California	732	742	752	1,882	2,238	-15.9
Oregon	587	237	512	1,345	1,414	-4.9
Washington	1,234	1,262	1,761	4,008	4,398	-8.9
Unknown	**774**	**1,597**	**1,728**	**4,645**	**4,746**	**-2.1**
U.S. Total	**216,184**	**218,977**	**229,783**	**654,081**	**669,416**	**-2.3**
Canada	1,738	3,075	4,405	6,606	11,026	-40.1
Overseas[1]	17,069	16,578	20,872	51,941	66,893	-22.4
Foreign Total	**18,807**	**19,652**	**25,276**	**58,546**	**77,919**	**-24.9**
Grand Total	**234,991**	**238,629**	**255,060**	**712,627**	**747,335**	**-4.6**

[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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Sector: Electric Generation						
New England Total	**855**	**865**	**1,583**	**2,767**	**4,954**	**-44.1**
Connecticut	168	166	206	554	728	-23.8
Massachusetts	404	465	1,081	1,356	3,414	-60.3
New Hampshire	284	235	296	858	812	5.6
Middle Atlantic Total	**10,162**	**11,841**	**13,900**	**34,934**	**41,452**	**-15.7**
New Jersey	338	485	376	1,454	1,562	-6.9
New York	1,865	1,847	2,804	5,977	8,048	-25.7
Pennsylvania	7,959	9,509	10,719	27,503	31,841	-13.6
East North Central Total	**39,602**	**41,506**	**42,987**	**121,655**	**129,877**	**-6.2**
Illinois	6,730	6,003	6,508	18,782	19,515	-3.8
Indiana	10,384	11,194	12,027	32,617	37,748	-13.6
Michigan	6,783	6,935	7,143	19,872	20,477	-3.0
Ohio	10,797	12,177	12,207	36,178	37,581	-3.7
Wisconsin	4,908	5,198	5,103	14,406	14,555	-1.0
West North Central Total	**25,021**	**25,375**	**25,615**	**75,067**	**76,750**	**-2.2**
Iowa	4,339	4,598	3,999	12,011	12,323	-2.5
Kansas	4,384	4,483	3,111	12,429	10,899	14.0
Minnesota	3,714	3,672	4,057	11,932	11,532	3.5
Missouri	3,739	4,559	6,094	13,303	17,578	-24.3
Nebraska	1,978	2,049	2,078	6,250	5,913	5.7
North Dakota	6,392	5,376	5,788	17,448	16,858	3.5
South Dakota	474	638	487	1,694	1,647	2.9
South Atlantic Total	**30,813**	**32,538**	**32,496**	**94,228**	**93,040**	**1.3**
Delaware	475	668	497	1,558	1,261	23.6
Florida	4,821	5,949	5,914	16,143	17,379	-7.1
Georgia	6,351	5,887	5,948	17,699	15,787	12.1
Maryland	2,215	2,355	2,300	7,012	6,559	6.9
North Carolina	6,095	5,904	6,312	17,106	16,269	5.1
South Carolina	2,561	2,113	2,321	6,751	6,898	-2.1
Virginia	3,034	2,932	2,414	9,084	7,421	22.4
West Virginia	5,262	6,730	6,790	18,874	21,465	-12.1
East South Central Total	**20,463**	**22,026**	**20,329**	**64,565**	**58,961**	**9.5**
Alabama	5,509	6,360	6,172	18,078	16,577	9.1
Kentucky	8,587	7,534	7,751	24,071	22,278	8.0
Mississippi	680	1,006	839	2,408	3,020	-20.3
Tennessee	5,686	7,125	5,568	20,008	17,085	17.1
West South Central Total	**35,242**	**33,021**	**35,505**	**96,118**	**97,059**	**1.1**
Arkansas	2,714	2,776	2,834	8,038	8,421	-4.6
Louisiana	3,396	3,580	3,715	10,231	10,006	2.3
Oklahoma	4,170	3,973	4,955	12,608	12,757	-1.2
Texas	24,961	22,692	24,001	67,241	65,875	2.1
Mountain Total	**26,649**	**22,300**	**26,899**	**74,970**	**77,187**	**-2.9**
Arizona	5,021	4,222	4,359	13,492	12,200	10.6
Colorado	3,880	3,740	4,072	11,636	11,921	-2.4
Montana	2,759	865	3,074	6,382	7,989	-20.1
Nevada	1,858	1,460	2,085	5,136	5,889	-12.8
New Mexico	3,957	3,413	3,912	10,790	10,737	.5
Utah	3,196	3,504	3,007	10,376	9,704	6.9
Wyoming	5,978	5,096	6,389	17,158	18,747	-8.5
Pacific Total	**1,877**	**1,563**	**2,349**	**5,521**	**5,937**	**-7.0**
Alaska	70	58	62	208	201	3.5
California	59	79	58	184	127	44.7
Oregon	566	232	507	1,304	1,358	-4.0
Washington	1,183	1,195	1,723	3,825	4,251	-10.0
U.S. Total	**190,684**	**191,036**	**201,665**	**572,026**	**585,216**	**-2.3**
Sector: Coke Plants						
Middle Atlantic Total	**1,866**	**1,901**	**2,318**	**5,934**	**7,504**	**-20.9**
New York	249	244	174	748	799	-6.4
Pennsylvania	1,617	1,658	2,144	5,186	6,705	-22.7
East North Central Total	**2,537**	**3,133**	**3,211**	**8,671**	**9,920**	**-12.6**
Illinois	536	559	389	1,594	1,240	28.6
Indiana	1,156	1,561	1,788	4,405	5,412	-18.6
Michigan	91	129	37	238	37	NM
Ohio	754	885	997	2,433	3,231	-24.7
South Atlantic Total	**633**	**797**	**616**	**2,288**	**1,971**	**16.1**
Virginia	246	229	202	694	687	1.0

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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Sector: Coke Plants (Continued)						
West Virginia	387	568	414	1,594	1,284	24.2
East South Central Total	**919**	**950**	**958**	**2,746**	**3,326**	**-17.4**
Alabama	525	744	668	1,871	2,249	-16.8
Kentucky	393	205	290	875	1,064	-17.8
Tennessee	-	-	-	-	12	-
Mountain Total	**290**	**305**	**269**	**794**	**805**	**-1.3**
Utah	290	305	269	794	805	-1.3
U.S. Total	**6,245**	**7,066**	**7,371**	**20,433**	**23,525**	**-13.1**
Sector: Industrial Plants (Except Coke)						
New England Total	**139**	**201**	**224**	**439**	**827**	**-46.9**
Connecticut	*	31	-	31	11	176.6
Maine	99	120	177	233	632	-63.1
Massachusetts	25	50	28	97	128	-24.2
New Hampshire	14	-	15	78	45	73.5
Vermont	-	*	4	*	11	-99.2
Middle Atlantic Total	**1,889**	**1,756**	**1,535**	**5,250**	**4,367**	**20.2**
New Jersey	45	64	42	192	168	14.3
New York	456	314	437	1,130	1,222	-7.6
Pennsylvania	1,388	1,378	1,057	3,929	2,977	32.0
East North Central Total	**4,692**	**4,194**	**4,248**	**12,700**	**11,732**	**8.2**
Illinois	1,097	1,047	915	3,276	2,613	25.4
Indiana	1,162	1,219	1,015	3,548	3,036	16.8
Michigan	1,008	792	915	2,277	2,115	7.6
Ohio	1,026	780	906	2,554	2,842	-10.1
Wisconsin	399	356	497	1,045	1,126	-7.2
West North Central Total	**2,666**	**2,716**	**2,902**	**8,186**	**8,151**	**.4**
Iowa	403	443	519	1,260	1,318	-4.4
Kansas	37	28	45	96	92	3.6
Minnesota	337	213	288	744	612	21.5
Missouri	209	319	274	713	807	-11.7
Nebraska	72	26	65	159	138	15.1
North Dakota	1,536	1,622	1,631	5,010	5,030	-.4
South Dakota	75	65	81	203	153	33.1
South Atlantic Total	**2,895**	**3,029**	**3,485**	**9,400**	**11,023**	**-14.7**
Delaware	63	12	20	107	114	-6.4
Florida	169	245	304	690	925	-25.4
Georgia	279	341	344	1,107	1,162	-4.7
Maryland	116	77	167	337	513	-34.3
North Carolina	522	557	773	1,721	2,212	-22.2
South Carolina	512	511	547	1,648	1,456	13.1
Virginia	606	624	828	2,031	2,891	-29.7
West Virginia	627	662	504	1,761	1,751	.6
East South Central Total	**1,883**	**2,342**	**2,095**	**6,437**	**5,967**	**7.9**
Alabama	524	684	839	1,830	2,298	-20.3
Kentucky	549	648	427	1,842	1,169	57.5
Mississippi	23	66	58	158	152	4.1
Tennessee	787	944	770	2,607	2,347	11.1
West South Central Total	**1,215**	**1,693**	**1,389**	**4,529**	**3,994**	**13.4**
Arkansas	64	75	62	203	171	18.5
Louisiana	145	133	121	435	392	11.1
Oklahoma	420	271	202	920	501	83.5
Texas	587	1,214	1,004	2,971	2,929	1.4
Mountain Total	**1,238**	**1,072**	**1,176**	**3,456**	**3,358**	**2.9**
Arizona	169	137	181	470	471	-.3
Colorado	215	135	153	525	520	.9
Idaho	135	96	135	280	289	-3.3
Montana	66	27	56	170	151	12.7
Nevada	51	42	52	148	141	5.2
New Mexico	19	15	12	45	35	27.1
Utah	183	209	170	562	418	34.4
Wyoming	401	411	418	1,257	1,333	-5.7
Pacific Total	**676**	**657**	**726**	**1,743**	**2,251**	**-22.6**
California	623	621	694	1,606	2,111	-23.9
Oregon	20	6	6	40	55	-28.0
Washington	33	30	27	97	85	14.2

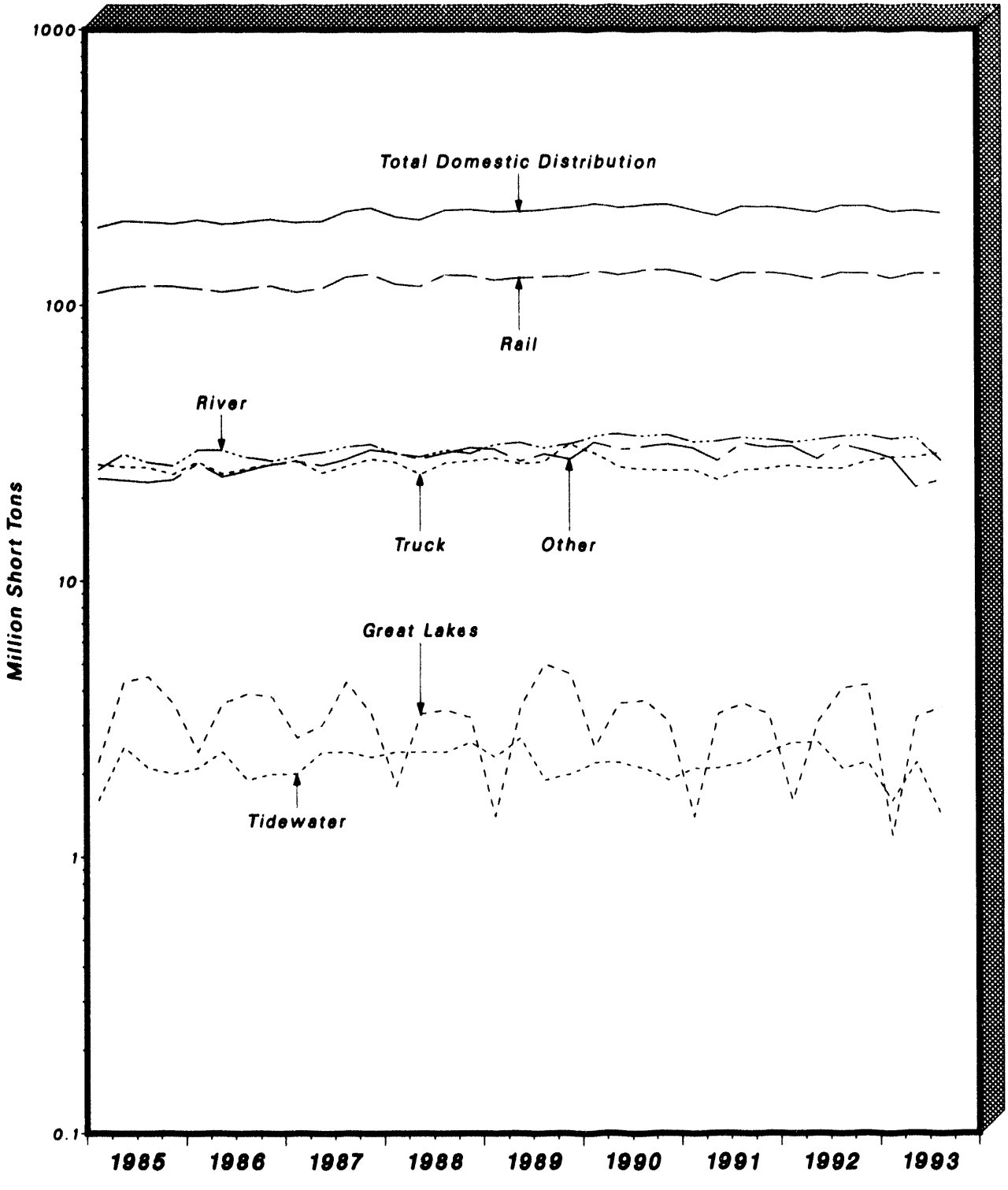
See footnotes at end of table.

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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
	Sector: Industrial Plants (Except Coke) (Continued)					
U.S. Total	**17,295**	**17,661**	**17,781**	**52,141**	**51,669**	**0.9**
	Sector: Residential and Commercial					
New England Total	**24**	**26**	**44**	**73**	**100**	**-26.8**
Connecticut	2	1	3	8	7	7.7
Maine	2	18	16	22	28	-21.2
Massachusetts	14	6	17	32	48	-34.2
New Hampshire	3	1	5	6	10	-42.3
Rhode Island	1	*	1	2	3	-27.2
Vermont	2	*	2	*	4	.3
Middle Atlantic Total	**234**	**371**	**407**	**1,074**	**1,422**	**-24.5**
New Jersey	1	1	4	5	12	-61.8
New York	57	68	78	192	215	-10.5
Pennsylvania	175	302	324	877	1,195	-26.6
East North Central Total	**247**	**347**	**325**	**1,070**	**1,019**	**5.0**
Illinois	51	45	65	189	203	-6.9
Indiana	49	108	64	339	256	32.3
Michigan	61	80	77	184	164	12.2
Ohio	84	80	99	322	395	-18.5
Wisconsin	2	34	*	36	1	NM
West North Central Total	**122**	**112**	**96**	**402**	**323**	**24.5**
Iowa	11	35	20	57	64	-10.1
Kansas	1	*	*	19	*	NM
Minnesota	39	1	*	43	20	116.9
Missouri	58	65	53	197	167	18.0
Nebraska	2	1	3	3	4	-23.0
North Dakota	9	10	10	83	67	22.6
South Dakota	*	-	-	*	1	-69.3
South Atlantic Total	**162**	**235**	**114**	**676**	**381**	**77.3**
Delaware	16	14	*	30	*	NM
District of Columbia	1	17	6	44	38	17.5
Florida	*	*	*	*	1	-85.6
Georgia	5	7	14	18	31	-42.0
Maryland	1	1	4	6	10	-42.7
North Carolina	55	45	35	172	99	72.8
South Carolina	29	19	7	84	14	490.3
Virginia	45	77	35	216	127	69.5
West Virginia	10	55	13	106	60	76.3
East South Central Total	**68**	**241**	**101**	**602**	**271**	**122.3**
Alabama	11	5	19	41	60	-32.1
Kentucky	27	56	55	176	133	31.8
Mississippi	-	*	-	*	*	NM
Tennessee	29	180	27	385	77	398.1
West South Central Total	**2**	*	**2**	**7**	**9**	**-13.4**
Arkansas	*	*	*	*	2	-80.1
Louisiana	-	-	-	1	-	-
Oklahoma	*	*	*	*	1	-69.7
Texas	2	*	1	6	6	-.2
Mountain Total	**144**	**42**	**49**	**332**	**283**	**17.3**
Arizona	1	-	1	1	2	-51.3
Colorado	91	6	10	106	34	212.3
Idaho	5	2	10	22	30	-25.6
Montana	*	2	1	8	16	-53.2
Nevada	*	*	*	1	1	17.5
New Mexico	*	*	*	5	4	22.3
Utah	18	15	21	75	143	-47.5
Wyoming	28	15	7	113	51	120.0
Pacific Total	**176**	**219**	**108**	**586**	**420**	**39.6**
Alaska	107	140	96	408	358	14.1
California	50	42	-	92	*	NM
Oregon	1	-	*	1	*	302.0
Washington	18	36	12	86	62	37.9
U.S. Total	**1,178**	**1,593**	**1,236**	**4,823**	**4,228**	**14.1**

* Quantity is less than 500 short tons or percent is less than .05.
NM Not meaningful as value is greater than or equal to 500.
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-6, "Coal Distribution Report."

Table 11. Domestic Distribution of U.S. Coal by Method of Transportation and Origin State

(Thousand Short Tons)

Coal-Producing Region and State	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Rail						
Alabama	1,330	1,778	1,635	4,824	4,793	0.6
Alaska	120	152	120	458	452	1.2
Arizona	2,119	1,632	1,924	5,433	5,474	-.7
Colorado	3,931	3,801	3,723	10,892	10,137	7.4
Illinois	3,415	5,161	7,754	14,779	23,863	-38.1
Indiana	3,576	3,386	3,801	10,453	13,476	-22.4
Kansas	11	36	9	62	13	382.2
Kentucky Total	24,127	22,517	22,918	68,505	64,207	6.7
Eastern	21,564	19,867	20,186	60,610	56,343	7.6
Western	2,563	2,650	2,731	7,894	7,863	.4
Maryland	643	434	560	1,498	1,610	-6.9
Missouri	8	10	16	19	88	-79.0
Montana	4,907	4,843	6,114	15,661	16,533	-5.3
New Mexico	5,960	5,447	3,023	14,797	7,848	88.6
North Dakota	528	672	465	1,834	2,054	-10.7
Ohio	543	392	439	1,370	1,866	-26.6
Oklahoma	-	-	47	-	136	-
Pennsylvania Total	5,832	5,871	7,224	17,907	21,384	-16.3
Anthracite	52	77	63	190	155	22.3
Bituminous	5,780	5,794	7,162	17,717	21,229	-16.5
Tennessee	405	415	454	1,166	1,340	-13.0
Texas	6,175	5,538	6,725	17,208	19,152	-10.2
Utah	2,456	2,576	2,540	7,282	7,176	1.5
Virginia	6,105	5,783	5,317	17,279	16,304	6.0
Washington	-	-	7	-	7	-
West Virginia Total	11,968	13,762	14,292	39,961	43,818	-8.8
Northern	3,056	3,231	3,594	9,668	11,082	-12.8
Southern	8,913	10,531	10,698	30,293	32,736	-7.5
Wyoming	46,455	45,172	42,183	133,858	121,559	10.1
Appalachian Total	**48,391**	**48,304**	**50,108**	**144,615**	**147,457**	**-1.9**
Interior Total	**15,748**	**16,802**	**21,064**	**50,416**	**64,591**	**-21.9**
Western Total	**66,475**	**64,294**	**60,099**	**190,215**	**171,240**	**11.1**
East of the Miss. River	**57,945**	**59,521**	**64,394**	**177,741**	**192,659**	**-7.7**
West of the Miss. River	**72,670**	**69,878**	**66,897**	**207,504**	**190,629**	**8.9**
U.S. Total	**130,614**	**129,400**	**131,291**	**385,246**	**383,288**	**.5**
Method of Transportation: River						
Alabama	721	633	718	1,740	1,858	-6.4
Colorado	124	213	114	446	201	122.5
Illinois	2,334	4,523	5,189	12,752	14,990	-14.9
Indiana	1,124	1,047	1,216	3,560	3,312	7.5
Kentucky Total	9,207	9,759	10,133	27,415	29,026	-5.6
Eastern	5,345	4,448	3,949	13,186	10,606	24.3
Western	3,862	5,311	6,183	14,229	18,420	-22.8
Maryland	140	109	-	361	-	-
Ohio	1,599	1,561	1,918	5,587	5,481	1.9
Pennsylvania Total	1,095	2,246	2,127	6,175	6,397	-3.5
Anthracite	-	-	-	1	2	-31.1
Bituminous	1,095	2,246	2,127	6,174	6,396	-3.5
Tennessee	130	166	146	433	465	-7.0
Utah	52	21	-	229	-	-
Virginia	279	638	674	1,465	1,886	-22.3
West Virginia Total	8,568	10,046	8,378	27,411	25,658	6.8
Northern	2,110	3,720	3,927	9,943	12,129	-18.0
Southern	6,458	6,326	4,451	17,468	13,529	29.1
Wyoming	1,903	1,966	2,911	5,158	8,489	-39.2
Appalachian Total	**17,878**	**19,848**	**17,910**	**56,357**	**52,352**	**7.7**
Interior Total	**7,321**	**10,862**	**12,588**	**30,541**	**36,721**	**-16.8**
Western Total	**2,079**	**2,200**	**3,026**	**5,833**	**8,690**	**-32.9**
East of the Miss. River	**25,199**	**30,729**	**30,498**	**86,898**	**89,073**	**-2.4**
West of the Miss. River	**2,079**	**2,200**	**3,026**	**5,833**	**8,690**	**-32.9**
U.S. Total	**27,278**	**32,930**	**33,524**	**92,731**	**97,763**	**-5.1**

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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Great Lakes						
Illinois	5	2	27	7	33	-77.4
Indiana	124	114	145	250	268	-6.5
Kentucky Total	635	651	930	1,559	1,823	-14.5
Eastern	635	643	930	1,551	1,815	-14.6
Western	-	8	-	8	8	3.7
Montana	1,809	1,710	1,692	4,423	4,425	-.1
Ohio	1	15	-	16	14	16.9
Pennsylvania Total	192	192	281	393	651	-39.6
Bituminous	192	192	281	393	651	-39.6
Virginia	61	94	72	156	84	85.0
West Virginia Total	433	196	307	677	505	33.9
Northern	84	72	139	184	197	-6.3
Southern	349	125	168	492	309	59.5
Wyoming	257	248	617	505	999	-49.5
Appalachian Total	**1,323**	**1,141**	**1,590**	**2,793**	**3,070**	**-9.0**
Interior Total	**129**	**124**	**172**	**265**	**306**	**-13.8**
Western Total	**2,066**	**1,958**	**2,309**	**4,927**	**5,424**	**-9.2**
East of the Miss. River	**1,452**	**1,265**	**1,762**	**3,058**	**3,378**	**-9.5**
West of the Miss. River	**2,066**	**1,958**	**2,309**	**4,927**	**5,424**	**-9.2**
U.S. Total	**3,518**	**3,223**	**4,071**	**7,985**	**8,802**	**-9.3**
Method of Transportation: Tidewater						
Illinois	-	-	-	-	48	-
Kentucky Total	886	999	921	2,490	2,891	-13.9
Eastern	787	928	921	2,320	2,891	-19.7
Western	99	70	-	169	-	-
Pennsylvania Total	-	-	41	-	41	-
Bituminous	-	-	41	-	41	-
Utah	-	52	-	52	-	-
Virginia	-	244	17	463	930	-50.3
West Virginia Total	466	885	1,126	2,173	3,406	-36.2
Northern	50	329	533	862	1,912	-54.9
Southern	415	556	592	1,311	1,494	-12.3
Appalachian Total	**1,253**	**2,057**	**2,104**	**4,956**	**7,268**	**-31.8**
Interior Total	**99**	**70**	**-**	**169**	**48**	**254.2**
Western Total	**-**	**52**	**-**	**52**	**-**	**-**
East of the Miss. River	**1,352**	**2,127**	**2,104**	**5,125**	**7,316**	**-29.9**
West of the Miss. River	**-**	**52**	**-**	**52**	**-**	**-**
U.S. Total	**1,352**	**2,179**	**2,104**	**5,176**	**7,316**	**-29.2**
Method of Transportation: Truck						
Alabama	2,236	2,314	2,280	6,833	6,614	3.3
Alaska	57	46	38	158	106	48.9
Arkansas	6	8	11	19	25	-23.7
California	-	-	32	-	112	-
Colorado	1,157	938	1,134	2,951	3,226	-8.5
Illinois	1,228	1,099	1,013	3,523	3,373	4.4
Indiana	2,347	2,652	2,027	7,341	6,271	17.1
Iowa	41	36	76	130	226	-42.4
Kansas	65	58	80	204	231	-11.7
Kentucky Total	3,697	3,339	2,939	10,569	8,782	20.4
Eastern	2,101	2,070	1,962	6,264	5,926	5.7
Western	1,596	1,269	977	4,305	2,855	50.8
Louisiana	127	95	185	319	435	-26.7
Maryland	137	164	274	451	735	-38.6
Missouri	120	66	66	235	188	25.2
Montana	72	43	55	202	170	19.0
New Mexico	1,374	1,090	-	2,468	3	NM
North Dakota	1,513	1,071	1,096	3,531	3,306	6.8
Ohio	2,996	2,739	2,938	8,344	8,912	-6.4
Oklahoma	634	560	471	1,684	1,291	30.4

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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Truck (Continued)						
Pennsylvania Total	3,885	3,904	3,778	11,858	11,219	5.7
Anthracite	424	397	628	1,408	1,843	-23.6
Bituminous	3,461	3,507	3,151	10,450	9,376	11.5
Tennessee	52	66	100	210	278	-24.3
Texas	3,838	3,572	3,622	10,615	9,980	6.4
Utah	1,432	1,475	1,143	4,443	4,354	2.0
Virginia	149	49	100	402	299	34.2
Washington	23	24	14	86	27	230.8
West Virginia Total	1,341	1,844	1,225	4,886	4,628	5.6
Northern	819	1,196	836	3,169	3,164	.2
Southern	522	649	390	1,717	1,464	17.3
Wyoming	803	576	883	2,298	2,476	-7.2
Appalachian Total	**12,898**	**13,149**	**12,658**	**39,246**	**38,611**	**1.6**
Interior Total	**10,001**	**9,416**	**8,528**	**28,375**	**24,876**	**14.1**
Western Total	**6,431**	**5,262**	**4,394**	**16,138**	**13,780**	**17.1**
East of the Miss. River	**16,069**	**16,170**	**16,675**	**54,415**	**51,110**	**6.5**
West of the Miss. River	**11,261**	**9,658**	**8,904**	**29,344**	**26,157**	**12.2**
U.S. Total	**29,330**	**27,828**	**25,580**	**83,759**	**77,266**	**8.4**
Method of Transportation: Tramway, Conveyor and Slurry Pipeline						
Alabama	325	379	383	1,151	1,335	-13.8
Arizona	1,267	828	1,302	3,266	3,934	-17.0
Colorado	-	9	-	9	-	-
Illinois	501	221	573	1,108	1,389	-20.3
Indiana	150	155	156	483	470	2.8
Kentucky Total	-	260	633	260	1,862	-86.1
Western	-	260	633	260	1,862	-86.1
Louisiana	753	643	759	2,041	1,997	2.2
Missouri	-	-	668	174	1,904	-90.8
Montana	2,527	720	2,705	5,761	7,214	-20.1
New Mexico	-	-	3,667	3,190	10,079	-68.4
North Dakota	6,262	5,820	6,226	18,470	17,811	3.7
Ohio	982	1,871	1,965	5,035	6,138	-18.0
Pennsylvania Total	482	1,230	1,669	3,360	5,302	-36.6
Anthracite	172	174	115	437	273	59.9
Bituminous	310	1,056	1,554	2,923	5,029	-41.9
Texas	4,662	4,411	4,687	13,408	12,032	11.4
Utah	647	656	624	2,023	2,063	-1.9
Virginia	246	229	202	700	687	1.9
Washington	1,148	999	1,253	3,292	3,771	-12.7
West Virginia Total	515	1,013	1,152	2,746	3,880	-29.2
Northern	271	1,013	1,152	2,502	3,880	-35.5
Southern	244	-	-	244	-	-
Wyoming	2,842	2,374	2,754	8,028	7,975	.7
Appalachian Total	**2,551**	**4,724**	**5,370**	**12,991**	**17,342**	**-25.1**
Interior Total	**6,066**	**5,688**	**7,476**	**17,474**	**19,655**	**-11.1**
Western Total	**14,693**	**11,405**	**18,531**	**44,038**	**52,848**	**-16.7**
East of the Miss. River	**3,202**	**5,359**	**6,732**	**14,841**	**21,064**	**-29.5**
West of the Miss. River	**20,108**	**16,459**	**24,645**	**59,661**	**68,781**	**-13.3**
U.S. Total	**23,310**	**21,817**	**31,377**	**74,502**	**89,845**	**-17.1**

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

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

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

Table 12. Domestic Distribution of U.S. Coal by Method of Transportation and Destination State

(Thousand Short Tons)

Census Division and State of Destination	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Rail						
New England Total	**555**	**549**	**902**	**2,005**	**2,716**	**-26.2**
Connecticut	*	*	23	*	84	-99.7
Maine	3	17	13	20	222	-91.0
Massachusetts	268	312	567	1,091	1,610	-32.2
New Hampshire	284	221	297	893	799	11.7
Rhode Island	-	-	-	-	*	-
Vermont	1	*	1	1	1	-19.6
Middle Atlantic Total	**6,729**	**6,209**	**7,423**	**20,144**	**22,570**	**-10.7**
New Jersey	357	369	373	1,194	1,060	12.6
New York	2,310	2,127	2,971	6,868	8,602	-20.2
Pennsylvania	4,061	3,713	4,079	12,082	12,907	-6.4
East North Central Total	**27,012**	**28,131**	**28,601**	**83,406**	**87,220**	**-4.4**
Illinois	5,564	5,311	5,366	16,340	15,985	2.2
Indiana	8,634	9,579	10,200	28,140	31,751	-11.4
Michigan	5,068	5,064	5,214	15,483	15,753	-1.7
Ohio	3,100	3,466	3,178	9,673	10,343	-6.5
Wisconsin	4,647	4,711	4,643	13,770	13,388	2.9
West North Central Total	**18,182**	**19,044**	**17,706**	**55,920**	**54,492**	**2.6**
Iowa	4,473	4,523	3,618	12,269	11,099	10.5
Kansas	4,367	4,460	3,086	12,357	10,804	14.4
Minnesota	3,788	3,630	3,909	12,159	11,459	6.1
Missouri	2,914	3,654	4,409	10,654	12,764	-16.5
Nebraska	2,052	2,076	2,146	6,412	6,056	5.9
North Dakota	163	118	108	540	837	-35.4
South Dakota	424	583	430	1,527	1,473	3.7
South Atlantic Total	**26,001**	**25,041**	**25,999**	**74,465**	**73,924**	**.7**
Delaware	501	684	513	1,601	1,309	22.3
District of Columbia	1	14	6	34	33	2.4
Florida	2,440	2,715	2,784	7,475	8,447	-11.5
Georgia	5,821	5,252	4,968	15,611	13,144	18.8
Maryland	1,868	1,491	1,763	5,290	5,207	1.6
North Carolina	6,597	6,415	7,005	18,728	18,270	2.5
South Carolina	3,049	2,594	2,790	8,302	8,139	2.0
Virginia	3,197	2,987	3,016	9,508	9,304	2.2
West Virginia	2,526	2,889	3,154	7,915	10,072	-21.4
East South Central Total	**9,281**	**10,297**	**8,904**	**29,822**	**26,275**	**13.5**
Alabama	2,279	3,222	2,651	8,310	7,241	14.8
Kentucky	3,685	3,114	3,026	10,403	8,904	16.8
Mississippi	395	616	541	1,365	1,482	-7.9
Tennessee	2,922	3,345	2,686	9,745	8,647	12.7
West South Central Total	**25,016**	**23,618**	**25,642**	**69,861**	**71,039**	**-1.7**
Arkansas	2,714	2,790	2,850	8,075	8,480	-4.8
Louisiana	1,246	1,173	1,372	3,606	3,671	-1.8
Oklahoma	4,055	3,784	4,724	12,113	12,105	.1
Texas	17,002	15,870	16,696	46,066	46,783	-1.5
Mountain Total	**16,341**	**15,141**	**14,267**	**45,330**	**40,461**	**12.0**
Arizona	5,189	4,350	4,535	13,936	12,647	10.2
Colorado	3,061	2,972	3,122	9,412	9,300	1.2
Idaho	114	70	129	209	251	-16.9
Montana	222	126	359	575	742	-22.5
Nevada	608	644	799	1,924	2,037	-5.5
New Mexico	2,578	2,318	241	5,119	642	NM
Utah	1,680	1,965	1,767	5,576	4,830	15.5
Wyoming	2,888	2,697	3,316	8,580	10,012	-14.3
Pacific Total	**1,497**	**1,369**	**1,846**	**4,293**	**4,592**	**-6.5**
Alaska	120	152	120	458	452	1.2
California	728	742	719	1,864	2,125	-12.3
Oregon	586	237	512	1,345	1,413	-4.9
Washington	62	238	494	626	601	4.3
U.S. Total	**130,614**	**129,400**	**131,291**	**385,246**	**383,288**	**.5**
Method of Transportation: River						
New England Total	**-**	**179**	**-**	**179**	**-**	**-**
Massachusetts	-	179	-	179	-	-
Middle Atlantic Total	**2,902**	**4,237**	**5,252**	**11,288**	**15,048**	**-25.0**
New Jersey	23	37	30	68	60	12.6
New York	100	80	257	405	850	-52.4

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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: River (Continued)						
Pennsylvania	2,778	4,119	4,964	10,815	14,138	-23.5
East North Central Total	**8,352**	**9,011**	**9,613**	**26,417**	**29,605**	**-10.8**
Illinois	1,038	1,018	808	2,797	2,420	15.5
Indiana	1,633	1,698	2,601	5,062	8,307	-39.1
Michigan	225	104	2	330	3	NM
Ohio	5,346	5,629	5,849	17,469	17,720	-1.4
Wisconsin	110	562	353	758	1,155	-34.3
West North Central Total	**1,067**	**1,590**	**2,059**	**3,606**	**5,701**	**-36.8**
Iowa	191	513	841	827	2,372	-65.1
Kansas	-	-	11	18	14	25.5
Minnesota	19	19	53	40	129	-69.4
Missouri	856	1,058	1,154	2,722	3,186	-14.6
South Atlantic Total	**5,154**	**6,524**	**6,378**	**19,013**	**18,187**	**4.5**
Delaware	1	8	1	36	58	-38.6
Florida	1,991	2,912	2,918	7,701	8,120	-5.2
Georgia	786	948	1,296	3,094	3,697	-16.3
Maryland	-	140	-	140	*	NM
North Carolina	-	5	-	5	-	-
South Carolina	23	22	12	60	25	142.4
Virginia	214	51	20	384	20	NM
West Virginia	2,137	2,438	2,131	7,592	6,267	21.1
East South Central Total	**8,373**	**9,578**	**8,693**	**27,497**	**24,911**	**10.4**
Alabama	1,746	1,913	2,372	5,609	5,939	-5.6
Kentucky	3,002	2,611	2,471	8,363	7,003	19.4
Mississippi	291	425	336	1,118	1,649	-32.2
Tennessee	3,334	4,628	3,514	12,407	10,319	20.2
West South Central Total	**1,430**	**1,811**	**1,529**	**4,731**	**4,310**	**9.8**
Arkansas	-	-	-	-	2	-
Louisiana	1,416	1,802	1,520	4,701	4,294	9.5
Oklahoma	15	10	8	30	14	109.6
U.S. Total	**27,278**	**32,930**	**33,524**	**92,731**	**97,763**	**-5.1**
Method of Transportation: Great Lakes						
Middle Atlantic Total	**15**	**-**	**104**	**15**	**111**	**-86.2**
New York	15	-	17	15	23	-32.4
Pennsylvania	-	-	87	-	89	-
East North Central Total	**3,232**	**2,986**	**3,584**	**7,463**	**8,114**	**-8.0**
Illinois	51	-	15	51	36	42.2
Indiana	66	54	-	120	-	-
Michigan	2,388	2,537	2,867	6,083	6,714	-9.4
Ohio	177	86	98	263	238	10.7
Wisconsin	551	308	604	945	1,127	-16.2
West North Central Total	**270**	**237**	**383**	**507**	**576**	**-11.9**
Minnesota	270	237	383	507	576	-11.9
U.S. Total	**3,518**	**3,223**	**4,071**	**7,985**	**8,802**	**-9.3**
Method of Transportation: Tidewater						
New England Total	**449**	**331**	**928**	**1,030**	**3,088**	**-66.6**
Connecticut	168	197	183	585	644	-9.1
Maine	97	120	177	231	432	-46.5
Massachusetts	170	-	553	171	1,953	-91.2
New Hampshire	14	14	15	43	59	-26.2
Middle Atlantic Total	**-**	**151**	**15**	**387**	**610**	**-36.6**
New Jersey	-	141	15	377	610	-38.2
Pennsylvania	-	10	-	10	-	-
South Atlantic Total	**903**	**1,697**	**1,161**	**3,759**	**3,618**	**3.9**
Florida	559	567	514	1,645	1,735	-5.2
Maryland	274	679	532	1,380	1,324	4.3
Virginia	70	450	115	733	559	31.2
U.S. Total	**1,352**	**2,179**	**2,104**	**5,176**	**7,316**	**-29.2**

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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Truck						
New England Total	**14**	**32**	**22**	**64**	77	**-16.2**
Connecticut	2	1	3	8	18	-57.2
Maine	1	*	2	4	6	-34.7
Massachusetts	5	31	6	43	28	55.1
New Hampshire	3	*	4	5	9	-42.6
Rhode Island	1	*	1	2	3	-27.2
Vermont	2	*	5	3	14	-78.1
Middle Atlantic Total	**4,023**	**4,042**	**3,682**	**11,999**	**11,046**	**8.6**
New Jersey	5	2	4	13	12	4.8
New York	201	266	248	759	808	-6.2
Pennsylvania	3,817	3,774	3,430	11,228	10,225	9.8
East North Central Total	**6,848**	**6,807**	**6,272**	**20,385**	**19,592**	**4.0**
Illinois	1,258	1,104	1,130	3,546	3,722	-4.7
Indiana	2,270	2,596	1,935	7,103	5,922	20.0
Michigan	263	231	89	675	324	108.3
Ohio	3,056	2,869	3,118	9,046	9,612	-5.9
Wisconsin	1	7	*	14	13	9.9
West North Central Total	**2,029**	**1,512**	**1,562**	**4,978**	**4,739**	**5.0**
Iowa	88	39	79	232	233	-.5
Kansas	55	51	59	169	173	-2.4
Minnesota	12	*	-	13	*	NM
Missouri	236	231	190	663	698	-5.1
Nebraska	-	-	*	-	*	-
North Dakota	1,513	1,071	1,096	3,531	3,306	6.8
South Dakota	124	121	139	370	327	12.9
South Atlantic Total	**1,684**	**2,096**	**1,776**	**5,887**	**5,975**	**-1.5**
Delaware	51	3	3	59	8	NM
District of Columbia	*	4	-	11	5	123.2
Florida	*	*	1	11	5	147.5
Georgia	28	35	41	119	139	-14.1
Maryland	191	123	165	543	526	3.4
North Carolina	75	86	115	265	311	-14.6
South Carolina	30	26	73	121	205	-41.2
Virginia	204	144	119	700	533	31.2
West Virginia	1,106	1,675	1,259	4,058	4,245	-4.4
East South Central Total	**5,352**	**5,045**	**4,832**	**15,621**	**14,013**	**11.5**
Alabama	2,219	2,280	2,259	6,751	6,560	2.9
Kentucky	2,870	2,458	2,388	7,937	6,857	15.8
Mississippi	17	31	20	84	41	104.9
Tennessee	247	277	165	849	555	52.9
West South Central Total	**4,598**	**4,222**	**4,278**	**12,605**	**11,683**	**7.9**
Arkansas	64	60	45	166	112	48.6
Louisiana	127	95	185	319	435	-26.7
Oklahoma	520	450	425	1,385	1,140	21.4
Texas	3,886	3,616	3,623	10,736	9,996	7.4
Mountain Total	**4,697**	**4,000**	**3,071**	**11,954**	**9,896**	**20.8**
Arizona	1	9	6	26	26	1.1
Colorado	1,124	909	1,112	2,856	3,174	-10.0
Idaho	26	28	16	94	69	36.5
Montana	77	49	68	224	201	11.5
Nevada	35	30	36	96	60	59.3
New Mexico	1,398	1,111	17	2,531	53	NM
Utah	1,360	1,412	1,074	4,208	4,174	.8
Wyoming	677	452	743	1,920	2,139	-10.3
Pacific Total	**85**	**71**	**84**	**266**	**246**	**8.1**
Alaska	57	46	38	158	106	48.9
California	4	*	33	18	113	-84.0
Oregon	*	-	*	*	*	NM
Washington	23	24	14	90	27	230.2
U.S. Total	**29,330**	**27,828**	**25,580**	**83,759**	**77,266**	**8.4**
Method of Transportation: Tramway, Conveyor and Slurry Pipeline						
Middle Atlantic Total	**482**	**1,230**	**1,669**	**3,360**	**5,302**	**-36.6**
Pennsylvania	482	1,230	1,669	3,360	5,302	-36.6
East North Central Total	**1,633**	**2,247**	**2,694**	**6,626**	**7,988**	**-17.0**
Illinois	501	221	573	1,108	1,389	-20.3
Indiana	150	155	156	483	470	2.8

See footnotes at end of table.

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

Census Division and State of Destination	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
	Method of Transportation: Tramway, Conveyor and Slurry Pipeline (Continued)					
Ohio	982	1,871	1,965	5,035	6,128	-17.8
West North Central Total	**6,262**	**5,820**	**6,893**	**18,644**	**19,715**	**-5.4**
Missouri	-	-	668	174	1,904	-90.8
North Dakota	6,262	5,820	6,226	18,470	17,811	3.7
South Atlantic Total	**761**	**1,243**	**1,354**	**3,446**	**4,577**	**-24.7**
Virginia	246	229	202	700	687	1.9
West Virginia	515	1,013	1,152	2,746	3,890	-29.4
East South Central Total	**325**	**639**	**1,016**	**1,410**	**3,197**	**-55.9**
Alabama	325	379	383	1,151	1,335	-13.8
Kentucky	-	260	633	260	1,862	-86.1
West South Central Total	**5,415**	**5,062**	**5,446**	**15,458**	**14,030**	**10.2**
Louisiana	753	643	759	2,041	1,997	2.2
Texas	4,662	4,419	4,687	13,417	12,032	11.5
Mountain Total	**7,283**	**4,578**	**11,052**	**22,267**	**31,266**	**-28.8**
Montana	2,527	720	2,705	5,761	7,214	-20.1
Nevada	1,267	828	1,302	3,266	3,934	-17.0
New Mexico	-	-	3,667	3,190	10,079	-68.4
Utah	647	656	624	2,023	2,063	-1.9
Wyoming	2,842	2,374	2,754	8,028	7,975	.7
Pacific Total	**1,148**	**999**	**1,253**	**3,292**	**3,771**	**-12.7**
Washington	1,148	999	1,253	3,292	3,771	-12.7
U.S. Total	**23,310**	**21,817**	**31,377**	**74,502**	**89,845**	**-17.1**

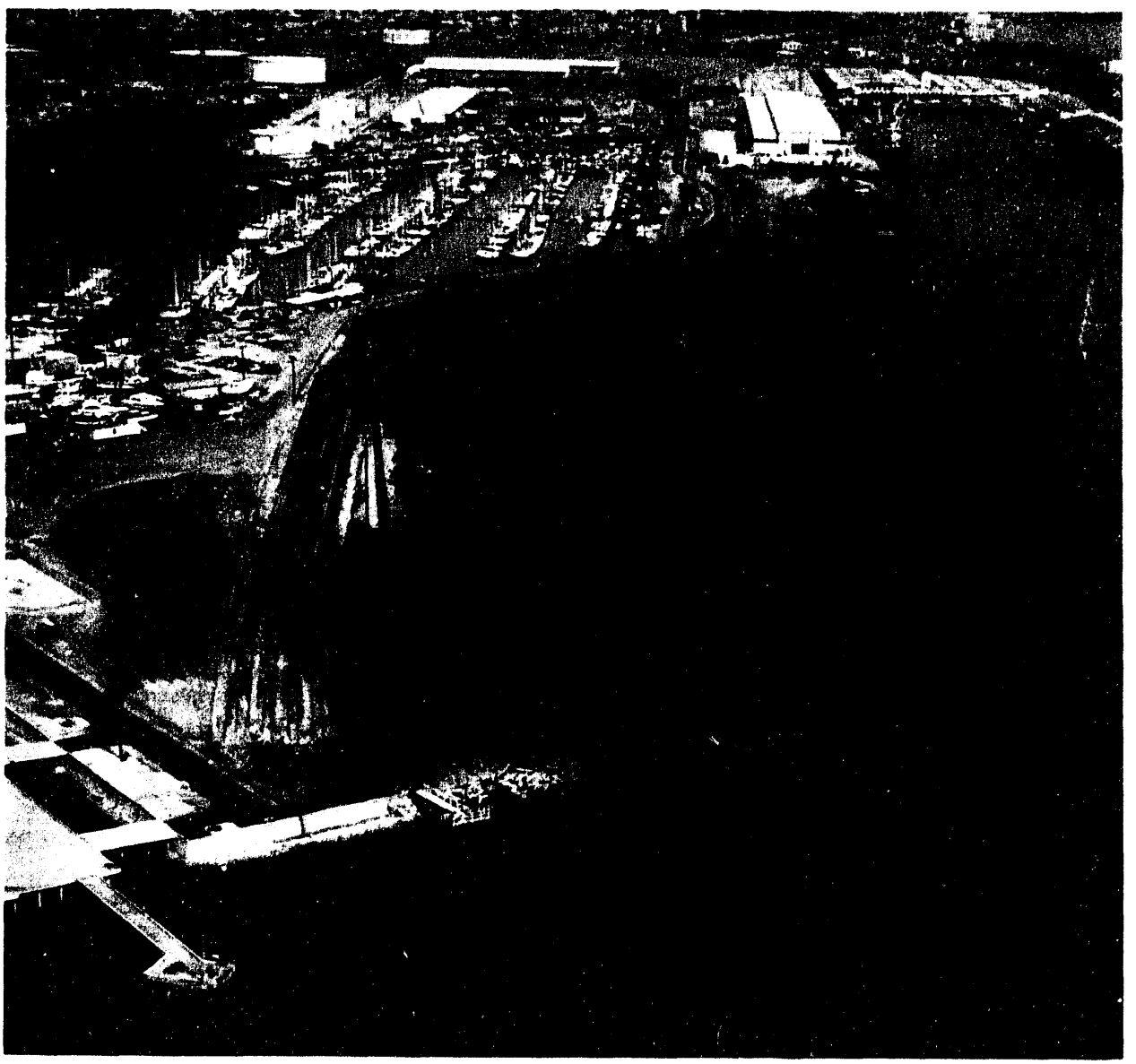
* Quantity is less than 500 short tons or percent is less than .05.
NM Not meaningful as value is greater than or equal to 500.
Notes: Total may not equal sum of components because of independent rounding. Methods of transportation do not sum to total distribution due to unknown methods of transportation.
Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

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

Distribution	July - September 1993			April - June 1993	July - September 1992	Year to Date		
	Used By Producing Companies	Commercial Sales	Total			1993	1992	Percent Change
Coke Total	**5,056**	**2,637**	**7,693**	**7,453**	**7,526**	**22,674**	**22,316**	**1.6**
By Consumer Category								
Blast Furnaces	5,024	2,201	7,225	6,970	7,045	21,229	20,907	1.5
Foundries	15	310	325	350	323	1,034	978	5.7
Other Industrial Plants	17	125	143	133	157	412	431	-4.4
By Plant Type								
Merchant Coke Plants	0	830	830	807	818	2,447	2,446	.1
Furnace Coke Plants	5,056	1,807	6,862	6,646	6,708	20,227	19,871	1.8
Breeze Total	**942**	**290**	**1,232**	**470**	**597**	**2,150**	**1,715**	**25.3**

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	18,522	2,142	NA	NA	57,338	4,448

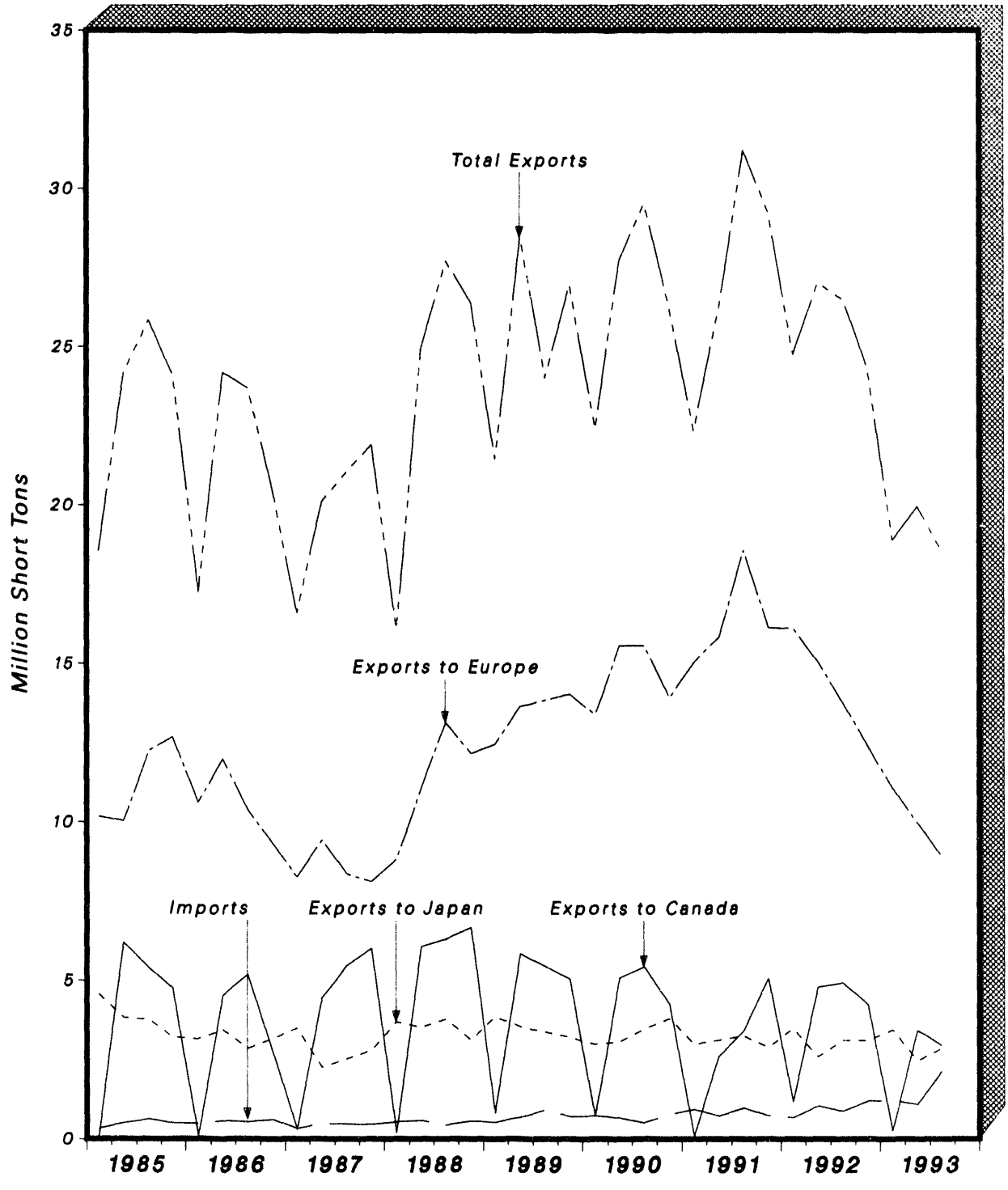
NA Not available.
Notes: Total may not equal sum of components because of independent rounding. More detailed data included in Table A3.
Sources: Exports: Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545"; and Imports: Bureau of the Census, U.S. Department of Commerce, "Monthly 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	40.72	29.52	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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**2,986,751**	**3,518,990**	**4,964,125**	**6,873,311**	**11,032,820**	**-37.7**
Canada[1]	2,948,704	3,423,726	4,928,571	6,631,034	10,893,919	-39.1
Dominican Republic	1,081	24,891	22,852	26,135	57,905	-54.9
Jamaica	-	13,104	-	13,104	13,227	-.9
Mexico	36,622	56,215	11,971	201,513	66,555	202.8
Other[2]	344	1,054	731	1,525	1,214	25.6
South America Total	**1,207,666**	**1,391,623**	**1,677,927**	**4,465,049**	**5,208,251**	**-14.3**
Argentina	61,801	137,249	106,293	356,435	302,845	17.7
Brazil	1,145,622	1,233,886	1,549,690	4,081,477	4,842,858	-15.7
Chile	-	-	-	-	27,090	-
Other[2]	243	20,488	21,944	27,137	35,458	-23.5
Europe Total	**6,898,979**	**9,961,476**	**13,749,893**	**29,928,745**	**44,871,760**	**-33.3**
Albania	-	-	-	-	22,284	-
Belgium & Luxembourg	1,328,623	1,596,759	1,584,819	3,826,173	5,468,813	-30.0
Bulgaria	170,672	230,106	212,826	623,460	380,332	63.9
Denmark	-	105,693	1,156,696	335,936	3,274,882	-89.7
Finland	36,294	142,756	-	251,828	205,160	22.7
France	872,635	656,165	1,636,448	3,294,442	6,515,320	-49.4
Germany, FR	67,316	84,667	341,596	473,442	911,434	-48.1
Ireland	122,408	352,888	444,785	723,548	1,096,429	-34.0
Italy	1,844,352	1,805,606	1,805,395	5,429,544	7,237,950	-25.0
Netherlands	1,377,736	1,470,692	2,320,167	4,762,962	7,161,436	-33.5
Norway	35,226	25,649	47,648	85,898	96,761	-11.2
Portugal	370,949	524,804	431,244	1,441,542	1,288,800	11.9
Romania	154,618	97,478	164,863	561,673	569,408	-1.4
Spain	911,633	1,220,526	1,118,298	3,039,403	3,598,600	-15.5
Sweden	162,960	166,748	338,561	496,772	674,131	-26.3
Turkey	387,928	394,332	675,948	1,171,303	1,492,384	-21.5
United Kingdom	1,020,184	1,086,607	1,313,623	3,332,547	4,288,470	-22.3
Yugoslavia	35,318	-	140,622	78,145	557,030	-86.0
Other[2]	127	-	16,354	127	32,136	-99.6
Asia Total	**4,768,605**	**4,427,204**	**5,508,455**	**14,235,765**	**15,193,931**	**-6.3**
China (Taiwan)	1,002,122	690,878	1,155,764	2,482,961	2,729,542	-9.0
Hong Kong	-	-	118,795	-	233,715	-
Israel	244,945	246,875	267,896	613,668	701,894	-12.6
Japan	2,864,092	2,468,663	3,114,259	8,772,366	9,199,720	-4.6
Korea, Republic of	656,728	1,019,212	850,497	2,364,148	2,324,051	1.7
Other[2]	718	1,576	1,244	2,622	5,009	-47.7
Oceania & Australia Total	**690**	**-**	**19**	**1,032**	**305**	**238.4**
Africa Total	**659,589**	**646,959**	**580,484**	**1,834,406**	**1,914,988**	**-4.2**
Algeria	62,607	110,146	126,495	291,200	440,572	-33.9
Egypt	347,644	122,399	248,285	646,368	654,223	-1.2
Morocco	157,221	193,730	136,234	498,794	529,392	-5.8
South Africa, Rep of	72,828	197,565	69,470	355,636	290,801	22.3
Other[2]	19,289	23,119	-	42,408	-	-
Total	**18,522,280**	**19,946,252**	**26,480,903**	**57,338,308**	**78,222,055**	**-26.7**

[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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**$33.72**	**$34.10**	**$33.20**	**$34.23**	**$33.19**	**3.1**
Canada[1]	33.60	33.92	33.17	33.91	33.11	2.4
Dominican Republic	-	36.60	37.09	36.63	36.83	-.6
Mexico	43.74	43.62	39.23	44.18	43.92	.6
Other[2]	34.65	35.11	39.32	35.63	37.04	-3.8
South America Total	**42.52**	**44.22**	**45.24**	**43.91**	**45.65**	**-3.8**
Argentina	43.72	43.54	46.19	43.42	45.46	-4.5
Brazil	42.46	44.32	45.19	43.97	45.68	-3.7
Chile	-	-	-	-	47.38	-
Other[2]	40.73	40.08	39.78	39.77	36.76	8.2
Europe Total	**43.47**	**43.47**	**42.45**	**43.22**	**42.56**	**1.6**
Belgium & Luxembourg	42.40	44.04	44.99	43.31	44.34	-2.3
Bulgaria	42.41	41.72	43.01	42.09	43.55	-3.4
Denmark	-	36.29	32.08	34.95	32.94	6.1
Finland	42.07	40.33	-	39.61	40.81	-3.0
France	43.12	44.39	40.28	41.62	38.95	6.9
Germany, FR	33.79	43.15	39.23	38.54	38.29	.7
Ireland	35.74	33.57	36.97	35.70	36.44	-2.0
Italy	44.26	44.92	45.39	44.42	45.60	-2.6
Netherlands	43.85	42.99	42.45	43.86	43.36	1.2
Norway	-	-	49.20	-	47.95	-
Portugal	37.99	36.42	41.00	37.63	40.73	-7.6
Romania	36.29	35.29	37.56	36.46	42.83	-14.9
Spain	46.98	46.94	48.06	46.89	46.61	.6
Sweden	46.38	45.75	47.09	46.16	46.99	-1.8
Turkey	42.72	42.54	45.07	42.77	45.65	-6.3
United Kingdom	45.94	46.05	44.75	45.87	45.46	.9
Yugoslavia	29.03	-	46.36	39.60	44.39	-10.8
Other[2]	40.67	-	37.07	40.67	37.05	9.8
Asia Total	**39.93**	**41.57**	**42.07**	**40.93**	**42.91**	**-4.6**
China (Taiwan)	39.12	40.78	41.59	39.89	41.58	-4.1
Hong Kong	-	-	37.55	-	37.55	-
Israel	35.86	33.87	38.93	34.91	39.33	-11.2
Japan	39.90	41.93	42.00	41.07	43.23	-5.0
Korea, Republic of	42.82	43.12	44.63	43.05	44.82	-4.0
Other[2]	36.50	36.27	34.45	37.31	38.95	-4.2
Oceania & Australia Total	**34.47**	**-**	**-**	**34.46**	**34.50**	**-.1**
Africa Total	**42.27**	**42.47**	**43.65**	**42.42**	**43.06**	**-1.5**
Algeria	42.32	44.74	45.95	44.33	46.28	-4.2
Egypt	45.32	44.93	46.79	45.55	46.12	-1.2
Morocco	33.90	33.81	33.40	33.87	33.73	.4
South Africa, Rep of	46.75	48.20	48.33	47.36	48.28	-1.9
Other[2]	38.56	42.18	-	40.53	-	-
Total[3]	**40.87**	**41.45**	**40.84**	**41.61**	**41.53**	**.2**
U.S. Total[4]	**40.72**	**41.42**	**40.70**	**41.54**	**41.42**	**.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.

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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**1,593,052**	**1,678,396**	**3,182,557**	**3,351,198**	**7,454,294**	**-55.0**
Canada[1]	1,583,533	1,625,848	3,147,213	3,265,624	7,351,707	-55.6
Dominican Republic	1,081	24,891	22,852	26,135	57,905	-54.9
Jamaica	-	13,104	-	13,104	13,227	-.9
Mexico	8,094	13,521	11,761	44,832	30,241	48.2
Other[2]	344	1,032	731	1,503	1,214	23.8
South America Total	**884**	**27,106**	**133,848**	**197,896**	**176,617**	**12.0**
Argentina	641	999	595	1,707	1,077	58.5
Brazil	-	5,621	111,309	169,052	140,007	20.7
Chile	-	-	-	-	75	-
Other[2]	243	20,488	21,944	27,137	35,458	-23.5
Europe Total	**2,386,401**	**2,614,025**	**5,869,547**	**9,171,361**	**19,243,866**	**-52.3**
Belgium & Luxembourg	380,458	273,744	362,303	863,960	1,499,001	-42.4
Denmark	-	-	1,156,696	230,243	3,274,882	-93.0
France	94,836	-	640,212	870,278	3,251,357	-73.2
Germany, FR	67,316	13,088	184,719	304,852	664,252	-54.1
Ireland	122,406	352,888	444,785	723,548	1,096,429	-34.0
Italy	485,406	476,519	464,048	1,602,165	2,307,586	-30.6
Netherlands	389,443	616,941	1,333,185	1,705,478	3,328,842	-48.8
Norway	6,479	13,281	7,214	25,376	20,937	21.2
Portugal	370,949	474,221	385,004	1,342,468	1,153,765	16.4
Romania	154,618	-	-	276,318	-	-
Spain	256,585	274,460	388,224	741,383	1,469,133	-49.5
Sweden	-	-	-	-	247	-
Turkey	-	-	-	312	316	-1.3
United Kingdom	22,458	116,883	435,076	449,535	1,109,018	-59.5
Yugoslavia	35,318	-	67,852	35,318	67,852	-47.9
Other[2]	127	-	229	127	229	-44.5
Asia Total	**2,530,187**	**1,707,537**	**2,470,903**	**6,424,336**	**5,704,577**	**12.6**
China (Taiwan)	879,711	690,878	1,046,493	2,269,613	2,415,711	-6.0
Hong Kong	-	-	118,795	-	233,715	-
Israel	244,945	246,875	267,896	613,668	558,967	9.8
Japan	1,232,409	513,122	857,259	2,935,112	1,905,909	54.0
Korea, Republic of	172,404	255,066	179,216	603,321	585,266	3.1
Other[2]	718	1,576	1,244	2,622	5,009	-47.7
Oceania & Australia Total	**690**	**-**	**19**	**1,032**	**305**	**238.4**
Africa Total	**157,221**	**193,730**	**95,165**	**498,794**	**488,323**	**2.1**
Morocco	157,221	193,730	95,165	498,794	488,323	2.1
Total	**6,668,435**	**6,220,796**	**11,752,039**	**19,644,617**	**33,067,982**	**-40.6**

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

[2] Includes countries with exports less than or equal to 50,000 short tons in 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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**$31.40**	**$32.01**	**$31.17**	**$31.79**	**$31.47**	**1.0**
Canada[1]	31.38	31.89	31.10	31.62	31.40	.7
Dominican Republic	-	36.60	37.09	36.63	36.83	-.6
Mexico	36.27	36.59	39.23	40.33	37.92	6.4
Other[2]	34.65	35.11	39.32	35.63	37.04	-3.8
South America Total	**36.40**	**39.75**	**43.10**	**40.55**	**42.12**	**-3.7**
Argentina	34.46	37.39	-	36.36	40.80	-10.9
Brazil	-	-	43.29	40.65	42.84	-5.1
Chile	-	-	-	-	40.96	-
Other[2]	40.73	40.06	39.78	39.77	36.76	8.2
Europe Total	**37.53**	**37.06**	**36.65**	**37.34**	**36.85**	**1.3**
Belgium & Luxembourg	34.06	32.21	36.33	34.20	36.53	-6.4
Denmark	-	-	32.06	34.34	32.94	4.2
France	31.49	-	33.82	31.63	33.83	-5.9
Germany, FR	33.79	28.60	33.40	34.19	35.50	-3.7
Ireland	35.74	33.57	36.97	35.70	36.44	-2.0
Italy	40.53	41.03	39.81	40.44	41.17	-1.8
Netherlands	38.90	38.96	39.39	39.74	39.19	1.4
Portugal	37.99	36.06	40.42	37.62	40.30	-6.7
Romania	36.29	-	-	36.29	-	-
Spain	45.48	37.00	39.90	39.20	38.07	3.0
Sweden	-	-	-	-	34.53	-
Turkey	-	-	-	40.84	40.72	.3
United Kingdom	47.87	36.07	39.10	39.97	38.87	2.8
Yugoslavia	29.03	-	-	29.03	-	-
Other[2]	40.67	-	42.07	40.67	42.07	-3.3
Asia Total	**36.11**	**37.84**	**38.37**	**36.72**	**38.82**	**-5.4**
China (Taiwan)	38.41	40.78	41.15	39.42	41.05	-4.0
Hong Kong	-	-	37.55	-	37.55	-
Israel	35.86	33.87	38.93	34.91	39.12	-10.8
Japan	34.68	36.53	35.67	35.37	36.32	-2.6
Korea, Republic of	34.99	35.00	34.84	34.91	37.93	-8.0
Other[2]	36.50	36.27	34.45	37.31	38.95	-4.2
Oceania & Australia Total	**34.47**	-	-	**34.46**	**34.50**	**-.1**
Africa Total	**33.90**	**33.81**	**33.05**	**33.87**	**33.69**	**.5**
Morocco	33.90	33.81	33.05	33.87	33.69	.5
Total[3]	**35.41**	**35.82**	**35.57**	**36.14**	**35.96**	**.5**
U.S. Total[4]	**35.28**	**36.24**	**35.46**	**36.14**	**35.78**	**1.0**

[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.

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

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

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

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

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

Continent and Country of Destination	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**1,393,699**	**1,840,594**	**1,781,568**	**3,622,113**	**3,578,526**	**-1.6**
Canada[1]	1,365,171	1,797,878	1,781,358	3,365,410	3,542,212	-5.0
Mexico	28,528	42,694	210	156,681	36,314	331.5
Other[2]	-	22	-	22	-	-
South America Total	**1,206,782**	**1,364,515**	**1,544,079**	**4,267,153**	**5,031,634**	**-15.2**
Argentina	61,160	136,250	105,698	354,728	301,768	17.5
Brazil	1,145,622	1,228,265	1,438,381	3,912,425	4,702,851	-16.8
Chile	-	-	-	-	27,015	-
Europe Total	**6,512,578**	**7,347,451**	**7,880,346**	**20,757,384**	**25,627,894**	**-19.0**
Albania	-	-	-	-	22,284	-
Belgium & Luxembourg	948,165	1,323,015	1,222,516	2,962,213	3,969,812	-25.4
Bulgaria	170,672	230,106	212,826	623,460	380,332	63.9
Denmark	-	105,693	-	105,693	-	-
Finland	36,294	142,756	-	251,828	205,160	22.7
France	777,799	656,165	996,236	2,424,164	3,263,963	-25.7
Germany, FR	-	71,579	156,877	168,590	247,182	-31.8
Italy	1,356,946	1,329,087	1,341,347	3,827,379	4,930,364	-22.4
Netherlands	988,293	851,751	986,982	3,057,484	3,832,594	-20.2
Norway	28,747	12,368	40,434	60,522	75,824	-20.2
Portugal	-	50,583	46,240	99,074	135,015	-26.6
Romania	-	97,478	164,863	285,355	569,408	-49.9
Spain	655,048	946,066	730,074	2,298,020	2,129,467	7.9
Sweden	162,960	166,748	338,561	496,772	673,884	-26.3
Turkey	387,928	394,332	675,948	1,170,991	1,492,068	-21.5
United Kingdom	997,726	969,724	878,547	2,883,012	3,179,452	-9.3
Yugoslavia	-	-	72,770	42,827	489,178	-91.2
Other[2]	-	-	16,125	-	31,907	-
Asia Total	**2,238,418**	**2,719,667**	**3,037,552**	**7,811,429**	**9,489,354**	**-17.7**
China (Taiwan)	122,411	-	109,271	213,348	313,831	-32.0
Israel	-	-	-	-	142,927	-
Japan	1,631,683	1,955,541	2,257,000	5,837,254	7,293,811	-20.0
Korea, Republic of	484,324	764,126	671,281	1,760,827	1,738,785	1.3
Africa Total	**502,368**	**453,229**	**485,319**	**1,335,612**	**1,426,665**	**-6.4**
Algeria	62,607	110,146	126,495	291,200	440,572	-33.9
Egypt	347,644	122,399	248,285	646,368	654,223	-1.2
Morocco	-	-	41,069	-	41,069	-
South Africa, Rep of	72,828	197,565	69,470	355,636	290,801	22.3
Other[2]	19,289	23,119	-	42,408	-	-
Total	**11,853,845**	**13,725,456**	**14,728,864**	**37,693,691**	**45,154,073**	**-16.5**

[1] Based on the U.S. - Canada Free Trade Agreement, as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.
[2] Includes countries with exports less than or equal to 50,000 short tons in 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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**$36.30**	**$35.82**	**$36.78**	**$36.39**	**$36.71**	**-0.9**
Canada[1]	36.10	35.58	36.78	35.98	36.60	-1.7
Mexico	45.80	45.80	-	45.26	47.92	-5.5
South America Total	**42.53**	**44.25**	**45.40**	**44.05**	**45.75**	**-3.7**
Argentina	43.81	43.58	46.19	43.45	45.47	-4.4
Brazil	42.46	44.32	45.34	44.11	45.76	-3.6
Chile	-	-	-	-	47.40	-
Europe Total	**45.47**	**45.53**	**46.54**	**45.67**	**46.68**	**-2.2**
Belgium & Luxembourg	45.75	46.48	47.56	46.03	47.28	-2.7
Bulgaria	42.41	41.72	43.01	42.09	43.55	-3.4
Denmark	-	36.29	-	36.29	-	-
Finland	42.07	40.33	-	39.61	40.81	-3.0
France	44.54	44.39	44.44	45.14	44.10	2.4
Germany, FR	-	45.81	46.09	46.40	45.79	1.3
Italy	45.59	46.31	47.43	46.09	47.73	-3.4
Netherlands	45.80	45.92	46.58	46.17	46.99	-1.7
Norway	-	-	49.20	-	47.95	-
Portugal	-	39.63	45.88	37.83	44.33	-14.7
Romania	-	35.29	37.56	36.71	42.83	-14.3
Spain	47.12	47.31	48.28	47.45	48.69	-2.5
Sweden	46.38	45.75	47.09	46.16	46.99	-1.8
Turkey	42.72	42.54	45.07	42.77	45.65	-6.3
United Kingdom	45.90	47.02	47.55	46.79	47.68	-1.9
Yugoslavia	-	-	46.36	48.31	44.39	8.8
Other[2]	-	-	37.0[illegible]	-	37.00	-
Asia Total	**44.40**	**44.10**	**45.08**	**44.45**	**45.37**	**-2.0**
China (Taiwan)	44.19	-	45.86	44.83	45.70	-1.9
Israel	-	-	-	-	40.13	-
Japan	44.04	43.40	44.40	44.01	45.04	-2.3
Korea, Republic of	45.61	45.83	47.24	45.84	47.14	-2.8
Africa Total	**44.89**	**46.17**	**45.73**	**45.61**	**46.27**	**-1.4**
Algeria	42.32	44.74	45.95	44.33	46.28	-4.2
Egypt	45.32	44.93	46.79	45.55	46.12	-1.2
Morocco	-	-	34.22	-	34.22	-
South Africa, Rep of	46.75	48.20	48.33	47.36	48.28	-1.9
Other[2]	38.56	42.18	-	40.53	-	-
Total[3]	**43.86**	**43.84**	**44.91**	**44.36**	**45.50**	**-2.5**
U.S. Total[4]	**43.78**	**43.77**	**44.88**	**44.35**	**45.55**	**-2.6**

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

[2] Includes countries with exports less than or equal to 50,000 short tons in 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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
Eastern Total	**10,360,535**	**12,630,637**	**16,020,183**	**35,518,298**	**50,122,578**	**-29.1**
Boston, MA	-	33,361	-	33,361	-	-
Baltimore, MD	1,856,660	2,075,223	2,599,288	5,769,308	7,420,423	-22.2
Portland, ME	120	532	-	822	105	(1)
Buffalo, NY	7,938	41,601	749,530	61,260	1,476,809	-95.9
New York City, NY	548	273	705	1,037	3,590	-71.1
Ogdensburg, NY	19,756	12,993	11,197	35,548	20,335	74.8
Philadelphia, PA	46,777	66,862	43,923	114,607	151,258	-24.2
Norfolk, VA	8,428,716	10,399,769	12,615,540	29,502,034	41,049,835	-28.1
St. Albans, VT	-	23	-	23	223	-89.7
Southern Total	**3,999,934**	**3,511,034**	**5,586,147**	**12,554,657**	**16,656,687**	**-24.6**
Mobile, AL	1,641,546	1,474,164	1,584,435	4,683,421	5,148,179	-9.0
Savannah, GA	-	-	902	-	35,857	-
Miami, FL	343	999	622	2,095	1,300	61.2
Tampa, FL	99	-	-	99	-	-
New Orleans, LA	2,231,483	1,993,606	3,723,236	7,407,661	10,723,298	-30.9
San Juan, PR	-	78	-	78	-	-
Charleston, SC	95,901	12,368	228,957	325,660	619,528	-47.4
El Paso, TX	116	-	-	116	421	-72.4
Houston-Galveston, TX	22,468	16,526	36,506	91,469	100,094	-8.6
Laredo, TX	7,978	13,293	11,378	44,058	27,901	57.9
Virgin Islands	-	-	109	-	109	-
Western Total	**1,228,432**	**533,617**	**881,907**	**2,[illegible],852**	**2,356,996**	**22.0**
Anchorage, AK	161,509	245,648	174,852	582,988	568,877	2.5
Nogales, AZ	-	226	-	290	-	-
Los Angeles, CA	1,051,246	277,994	622,074	2,206,955	1,605,089	37.5
San Diego, CA	-	262	593	686	2,291	-70.1
San Francisco, CA	-	-	60,102	-	60,102	-
Great Falls, MT	164	163	-	327	-	-
Seattle, WA	15,513	9,522	24,286	84,606	120,637	-29.9
Northern Total	**2,924,445**	**3,264,447**	**3,967,268**	**6,369,118**	**8,953,796**	**-28.9**
Chicago, IL	-	-	-	-	183	-
Detroit, MI	409,675	123,451	881,613	536,101	1,545,627	-65.3
Duluth, MN	57,700	-	-	57,700	118,782	-51.4
Pembina, ND	256	214	-	470	-	-
Cleveland, OH	2,456,814	3,140,782	3,105,655	5,774,847	7,289,204	-20.8
Other Ports	**8,934**	**6,317**	**5,336**	**20,383**	**131,998**	**-84.6**
Total	**18,522,280**	**19,946,252**	**26,490,903**	**57,338,308**	**78,222,055**	**-26.7**

[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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**169,710**	**129,473**	**127,869**	**351,412**	**271,592**	**29.4**
Canada[1]	150,204	81,822	113,045	267,307	209,871	27.4
Mexico	18,685	41,839	14,333	76,852	60,115	27.8
Other[2]	821	5,812	491	7,253	1,606	351.6
South America Total	**10,591**	**-**	**33,985**	**21,955**	**100,690**	**-78.2**
Europe Total	**99,984**	**59,691**	**47,035**	**190,918**	**97,460**	**95.9**
Asia Total	**-**	**145**	**36,043**	**261**	**48,186**	**-99.5**
Total	**280,285**	**189,309**	**244,932**	**564,546**	**517,928**	**9.0**

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

Continent and Country of Origin	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**279,166**	**277,164**	**215,484**	**730,489**	**727,896**	**0.4**
Canada	277,622	276,515	215,484	728,296	727,896	.1
Guatemala	4	-	-	4	-	-
Mexico	1,540	649	-	2,189	-	-
South America Total	**1,725,424**	**639,436**	**529,801**	**3,161,447**	**1,550,245**	**103.9**
Colombia	1,360,860	474,610	477,833	2,387,521	1,257,977	89.8
Venezuela	364,564	164,826	51,968	773,926	292,268	164.8
Europe Total	**-**	**2**	**89**	**2**	**89**	**-97.8**
Poland	-	2	-	2	-	-
United Kingdom	-	-	89	-	89	-
Asia Total	**110,461**	**114,606**	**113,433**	**467,441**	**253,672**	**84.3**
China (Mainland)	-	-	284	-	284	-
Hong Kong	-	-	-	-	1	-
Indonesia	110,461	114,606	113,149	467,441	253,287	84.5
Oceania & Australia Total	**27,437**	**53,797**	**23,166**	**81,234**	**72,362**	**12.3**
Australia	22,061	53,797	23,166	75,858	72,362	4.8
New Zealand	5,376	-	-	5,376	-	-
Africa Total	**-**	**7,549**	**-**	**7,549**	**-**	**-**
South Africa, Rep of	-	7,549	-	7,549	-	-
Total	**2,142,488**	**1,092,554**	**881,973**	**4,448,162**	**2,604,164**	**70.8**

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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**$31.87**	**$28.04**	**$25.90**	**$28.25**	**$25.51**	**10.7**
Canada	31.93	28.06	25.90	28.27	25.51	10.8
Mexico	21.25	21.07	-	21.19	-	-
South America Total	**27.68**	**29.67**	**32.99**	**28.37**	**34.19**	**-17.0**
Colombia	27.12	28.99	32.60	27.94	32.95	-15.2
Venezuela	29.93	31.63	36.53	29.76	39.53	-24.7
Europe Total	**-**	**-**	**34.12**	**-**	**34.12**	**-**
United Kingdom	-	-	34.12	-	34.12	-
Asia Total	**45.68**	**45.69**	**45.42**	**42.18**	**40.94**	**3.0**
Indonesia	45.68	45.69	45.42	42.18	40.94	3.0
Oceania & Australia Total	**33.35**	**30.65**	**33.67**	**31.43**	**37.02**	**-15.1**
Australia	33.35	30.65	33.67	31.43	37.02	-15.1
Total[1]	**29.20**	**31.10**	**33.24**	**29.91**	**32.72**	**-8.6**
U.S. Total[2]	**29.52**	**32.26**	**34.43**	**30.52**	**33.63**	**-9.3**

[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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
Eastern Total	**409,814**	**100,108**	**24,251**	**653,201**	**220,521**	**196.2**
Boston, MA	280,649	40,787	-	410,712	69,130	494.1
Baltimore, MD	76,503	-	-	76,503	-	-
Portland, ME	52,662	24,315	24,251	103,456	82,614	25.2
New York City, NY	-	2	-	2	-	-
Philadelphia, PA	-	35,004	-	62,528	68,777	-9.1
Southern Total	**1,322,530**	**547,528**	**505,550**	**2,597,922**	**1,329,743**	**95.4**
Mobile, AL	208,406	64,720	-	413,770	-	-
Tampa, FL	758,198	433,792	403,133	1,599,436	1,012,323	58.0
New Orleans, LA	203,397	7,549	-	281,218	-	-
San Juan, PR	24,255	-	32,216	79,618	109,851	-27.5
Houston-Galveston, TX	60,635	-	42,484	60,635	42,484	42.7
Laredo, TX	1,540	649	-	2,189	-	-
Virgin Islands	66,099	40,818	27,717	161,056	165,085	-2.4
Western Total	**146,858**	**186,924**	**154,315**	**523,765**	**367,782**	**42.4**
San Francisco, CA	-	-	284	-	284	-
Honolulu, HI	132,522	168,403	136,315	468,743	325,649	43.9
Great Falls, MT	8,813	12,409	6,375	32,363	25,444	27.2
Seattle, WA	5,523	6,112	11,341	22,659	16,405	38.1
Northern Total	**263,286**	**257,994**	**197,857**	**673,274**	**686,118**	**-1.9**
Chicago, IL	60,149	14,644	29,412	74,793	139,664	-46.4
Detroit, MI	59,936	58,135	-	118,071	-	-
Duluth, MN	11,967	87	-	12,266	-	-
Pembina, ND	131,234	185,128	168,356	468,144	546,365	-14.3
Cleveland, OH	-	-	89	-	89	-
Total	**2,142,488**	**1,092,554**	**881,973**	**4,448,162**	**2,604,164**	**70.8**

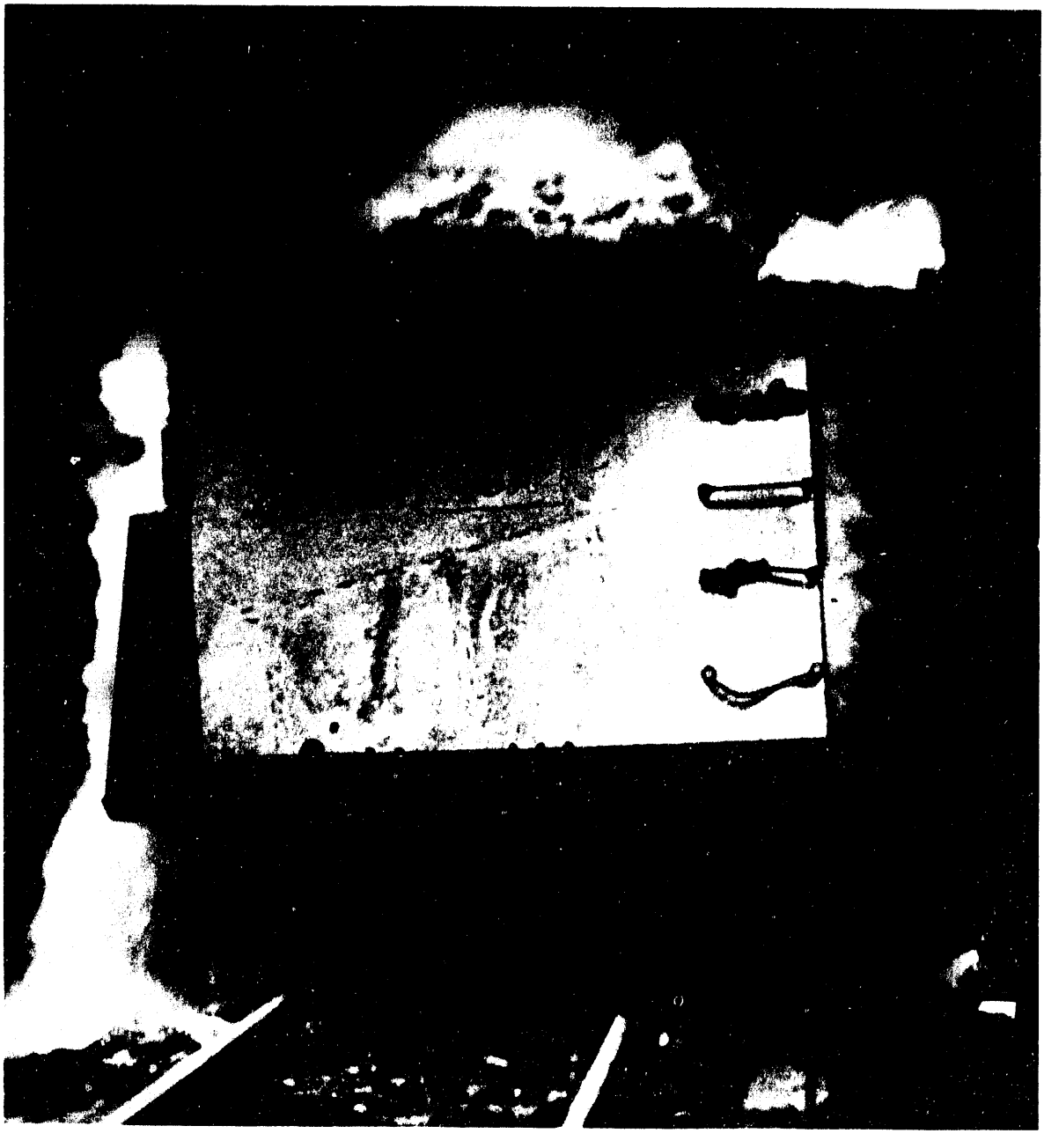
Note: Total may not equal sum of components because of independent rounding.
Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

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

Continent and Country of Origin	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**7,911**	**5,309**	**4,265**	**19,232**	**39,918**	**-51.8**
Canada	7,911	5,309	4,265	19,232	39,918	-51.8
Asia Total	**214,116**	**431,581**	**328,352**	**951,999**	**1,139,448**	**-16.5**
China (Mainland)	-	65	-	65	-	-
Japan	214,116	431,516	328,352	951,934	1,139,448	-16.5
Oceania & Australia Total	**48,456**	**48,259**	**-**	**144,526**	**92,008**	**57.1**
Australia	48,456	48,259	-	144,526	92,008	57.1
Africa Total	26,214	-	-	26,214	-	-
South Africa, Rep of	26,214	-	-	26,214	-	-
Total	**296,697**	**485,149**	**332,617**	**1,141,971**	**1,271,374**	**-10.2**

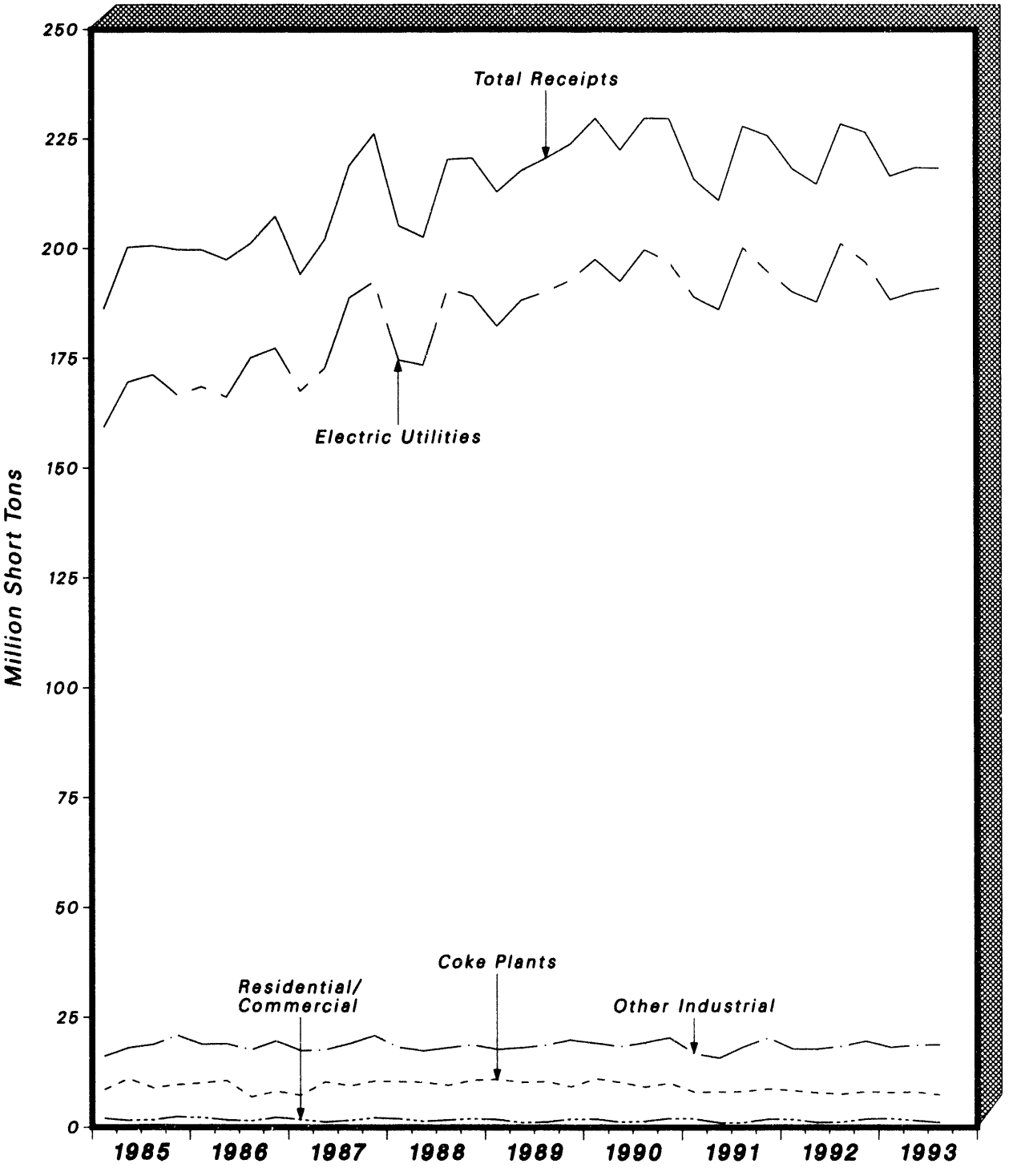
Note: Total may not equal sum of components because of independent rounding.
Source: Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145."

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."

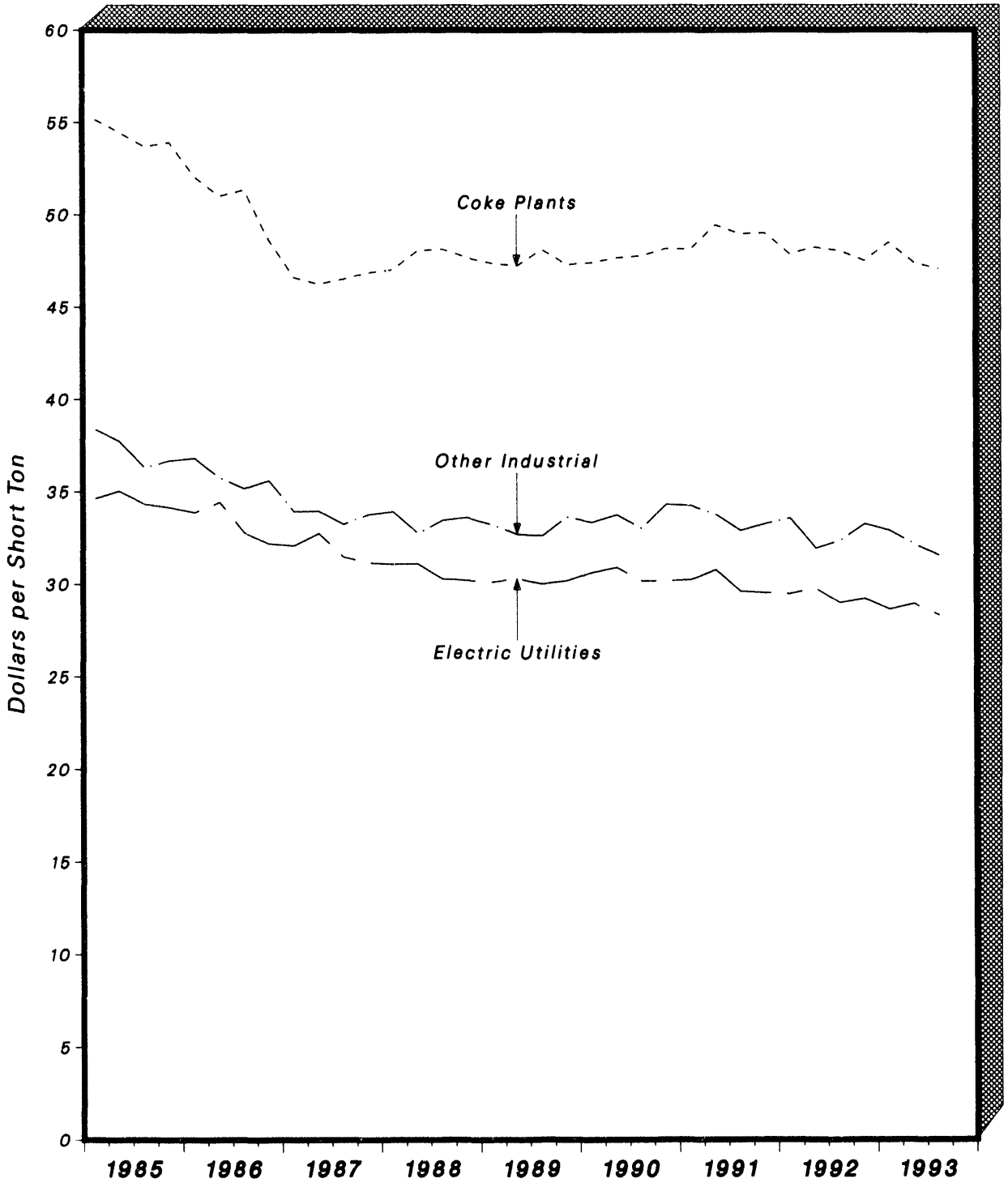
Table 28. U.S. Coal Receipts by End-Use Sector, 1985-1993
(Thousand Short Tons)

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	188,743	9,466	19,108	1,613	218,930
October - December	192,421	10,575	20,931	2,238	226,165
Total	**721,298**	**37,744**	**75,207**	**6,914**	**841,163**
1988 January - March	174,518	10,462	18,203	2,004	205,187
April - June	173,393	10,299	17,468	1,406	202,565
July - September	190,788	9,627	18,186	1,725	220,327
October - December	189,077	10,727	18,799	1,994	220,598
Total	**727,775**	**41,115**	**72,656**	**7,130**	**848,676**
1989 January - March	182,295	10,984	17,794	1,837	212,910
April - June	188,144	10,293	18,169	1,143	217,748
July - September	190,115	10,469	18,761	1,264	220,609
October - December	192,663	9,274	19,939	1,924	223,800
Total	**753,217**	**41,019**	**74,663**	**6,167**	**875,067**
1990 January - March	197,469	11,091	19,194	1,920	229,674
April - June	192,496	10,286	18,435	1,265	222,482
July - September	199,714	9,234	19,355	1,443	229,745
October - December	196,949	10,125	20,472	2,096	229,642
Total	**786,627**	**40,736**	**77,455**	**6,724**	**911,543**
1991 January - March	188,963	8,066	16,847	2,008	215,885
April - June	186,026	8,073	15,800	1,055	210,953
July - September	200,172	8,195	18,385	1,132	227,884
October - December	194,762	8,757	20,377	1,899	225,795
Total	**769,923**	**33,090**	**71,410**	**6,094**	**880,517**
1992 January - March	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**	**888,046**
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
July - September	190,957	7,426	18,851	1,178	218,412
Total	**569,406**	**23,444**	**55,793**	**4,823**	**653,465**

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-5, "Coke Plant Report - Quarterly;" Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

Table 29. Average Price of U.S. Coal Receipts by End-Use Sector, 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
July - September	28.32	47.07	31.55

[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	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
New England Total	**1,655**	**1,574**	**1,786**	**4,890**	**5,574**	**-12.3**
Connecticut	219	223	165	687	635	8.1
Maine	101	138	193	304	660	-53.9
Massachusetts	978	947	1,061	2,843	3,292	-13.6
New Hampshire	354	266	360	1,050	969	8.4
Rhode Island	1	*	1	2	3	-27.2
Vermont	2	*	6	4	16	-72.9
Middle Atlantic Total	**15,498**	**16,752**	**17,896**	**49,396**	**54,000**	**-8.5**
New Jersey	225	624	399	1,574	1,750	-10.0
New York	2,477	2,357	3,390	7,595	9,960	-23.7
Pennsylvania	12,796	13,772	14,107	40,227	42,291	-4.9
East North Central Total	**48,734**	**50,057**	**51,413**	**144,833**	**151,524**	**-4.4**
Illinois	8,511	8,051	7,788	24,850	23,934	3.8
Indiana	13,095	14,226	14,601	41,257	45,527	-9.4
Michigan	9,669	8,630	9,509	22,757	23,111	-1.5
Ohio	12,679	13,821	14,340	41,473	44,242	-6.3
Wisconsin	4,780	5,330	5,176	14,497	14,711	-1.5
West North Central Total	**27,091**	**28,010**	**28,935**	**83,468**	**85,293**	**-2.1**
Iowa	4,500	5,125	4,998	13,468	13,834	-2.6
Kansas	4,311	4,477	3,185	12,247	10,572	15.8
Minnesota	3,875	3,670	4,111	12,187	11,543	5.6
Missouri	4,276	5,009	6,521	14,716	19,358	-24.0
Nebraska	2,056	2,080	2,144	6,538	6,069	7.7
North Dakota	7,526	6,991	7,458	22,518	22,246	1.2
South Dakota	548	658	518	1,791	1,670	7.3
South Atlantic Total	**33,742**	**35,731**	**36,203**	**103,746**	**105,228**	**-1.4**
Delaware	454	656	463	1,638	1,244	31.7
District of Columbia	1	17	6	44	38	17.5
Florida	6,191	6,494	6,626	18,938	19,339	-2.1
Georgia	6,310	6,408	6,363	18,689	17,296	8.1
Maryland	2,316	2,227	2,532	6,916	7,463	-7.3
North Carolina	6,347	5,744	6,630	17,435	16,842	3.5
South Carolina	3,072	3,001	3,035	8,956	8,380	6.9
Virginia	3,105	3,219	3,221	9,622	10,379	-7.3
West Virginia	5,946	7,966	7,327	21,509	24,247	-11.3
East South Central Total	**24,489**	**25,881**	**23,953**	**76,569**	**69,453**	**10.2**
Alabama	7,419	8,394	8,267	23,761	23,203	2.4
Kentucky	10,394	9,138	8,749	29,375	25,261	16.3
Mississippi	867	1,151	985	2,770	2,734	1.3
Tennessee	5,808	7,198	5,952	20,662	18,254	13.2
West South Central Total	**35,912**	**34,409**	**36,784**	**102,891**	**100,910**	**2.0**
Arkansas	2,764	2,861	2,866	8,251	8,700	-5.2
Louisiana	3,338	3,463	3,852	10,040	10,156	-1.1
Oklahoma	4,308	3,981	4,895	12,732	12,634	.8
Texas	25,503	24,103	25,171	71,868	69,421	3.5
Mountain Total	**28,624**	**23,718**	**28,424**	**80,057**	**81,129**	**-1.3**
Arizona	5,200	4,357	4,541	13,960	12,679	10.1
Colorado	4,320	3,843	4,349	12,483	12,567	-.7
Idaho	143	98	145	365	406	-10.2
Montana	2,825	895	3,014	6,557	8,058	-18.6
Nevada	1,898	1,509	2,157	5,273	6,160	-14.4
New Mexico	3,961	3,435	3,954	10,777	10,787	-.1
Utah	3,881	4,029	3,611	12,024	10,839	10.9
Wyoming	6,396	5,553	6,653	18,618	19,633	-5.2
Pacific Total	**2,667**	**2,330**	**3,079**	**7,616**	**8,364**	**-8.9**
Alaska	107	143	96	410	358	14.7
California	673	663	694	1,747	2,111	-17.2
Hawaii	53	-	12	53	53	-1.2
Oregon	587	238	517	1,361	1,424	-4.4
Washington	1,246	1,286	1,761	4,045	4,419	-8.5
U.S. Total	**218,412**	**218,463**	**228,473**	**653,465**	**661,476**	**-1.2**

* 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	July-September 1993		July-September 1992		Year to Date					
					1993		1992		Percent Change	
	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)	Quantity	Price
New England	**1,492**	**164**	**1,518**	**170**	**4,328**	**166**	**4,646**	**173**	**-6.8**	**-4.2**
Connecticut	217	171	162	175	648	170	617	202	5.0	-15.8
Massachusetts	938	164	1,016	169	2,714	167	3,115	169	-12.9	-1.4
New Hampshire	337	158	340	168	967	162	914	168	5.7	-4.1
Mid Atlantic	**10,519**	**144**	**13,453**	**146**	**34,743**	**145**	**40,322**	**151**	**-13.8**	**-3.8**
New Jersey	178	168	353	171	1,377	176	1,550	173	-11.2	1.8
New York	1,708	149	2,702	147	5,484	147	7,678	150	-28.6	-1.8
Pennsylvania	8,632	142	10,397	144	27,882	143	31,094	150	-10.3	-4.5
East North Central	**41,005**	**143**	**43,702**	**146**	**121,282**	**142**	**128,351**	**146**	**-5.5**	**-2.7**
Illinois	6,864	172	6,288	172	19,705	173	19,474	171	1.2	1.1
Indiana	10,356	126	11,768	133	32,169	127	36,670	131	-12.3	-3.7
Michigan	8,600	153	8,517	154	20,296	153	20,831	157	-2.6	-2.4
Ohio	10,864	142	12,450	144	35,974	139	38,016	144	-5.4	-3.1
Wisconsin	4,322	122	4,678	132	13,138	121	13,359	135	-1.7	-10.3
West North Central	**24,185**	**99**	**25,588**	**111**	**74,280**	**101**	**76,094**	**111**	**-2.4**	**-9.0**
Iowa	3,995	98	4,139	114	11,805	99	11,884	113	-.7	-12.0
Kansas	4,272	101	3,140	118	12,126	102	10,480	118	15.7	-13.7
Minnesota	3,498	116	3,823	122	11,303	117	10,852	123	4.2	-5.2
Missouri	4,009	122	6,180	131	13,743	124	18,369	133	-25.2	-7.0
Nebraska	1,982	75	2,060	77	6,340	77	5,876	76	7.9	2.0
North Dakota	5,979	72	5,817	74	17,424	73	17,148	72	1.6	.7
South Dakota	448	110	429	111	1,539	109	1,485	116	3.6	-5.4
South Atlantic	**29,868**	**165**	**31,678**	**165**	**90,800**	**164**	**91,631**	**166**	**-.9**	**-1.5**
Delaware	375	168	434	172	1,480	170	1,120	173	32.1	-2.2
Florida	5,871	179	6,304	181	17,980	177	18,394	183	-2.3	-3.4
Georgia	5,958	179	5,908	180	17,421	178	15,926	183	9.4	-2.5
Maryland	2,126	159	2,354	156	6,360	158	6,933	160	-8.3	-1.0
North Carolina	5,770	169	5,822	168	15,510	170	14,531	174	6.7	-2.5
South Carolina	2,531	156	2,482	151	7,160	157	6,824	152	4.9	3.4
Virginia	2,198	147	2,110	147	6,595	147	6,626	147	-.5	.1
West Virginia	5,039	139	6,464	147	18,294	143	21,276	147	-14.0	-3.0
East South Central	**21,343**	**138**	**20,558**	**138**	**66,003**	**139**	**59,425**	**139**	**11.1**	**-.4**
Alabama	6,183	174	6,567	169	19,477	177	18,318	174	6.3	1.3
Kentucky	9,453	117	8,011	115	26,441	116	23,110	116	14.4	*
Mississippi	797	166	927	158	2,564	164	2,559	158	.2	3.3
Tennessee	4,909	127	5,054	127	17,520	126	15,438	127	13.5	-1.2
West South Central	**33,847**	**141**	**35,363**	**143**	**97,463**	**144**	**96,654**	**147**	**.8**	**-1.5**
Arkansas	2,691	180	2,788	164	8,014	169	8,479	168	-5.5	.8
Louisiana	3,194	158	3,716	150	9,604	158	9,749	153	-1.5	3.8
Oklahoma	3,888	124	4,693	124	11,812	125	12,132	125	-2.6	.2
Texas	24,074	137	24,166	144	68,033	143	66,295	147	2.6	-3.1
Mountain	**26,946**	**113**	**26,859**	**113**	**75,355**	**114**	**76,330**	**111**	**-1.3**	**3.0**
Arizona	5,031	138	4,359	145	13,490	134	12,201	135	10.6	-.7
Colorado	4,015	109	4,187	109	11,849	111	12,013	110	-1.4	.9
Montana	2,758	67	2,958	68	6,379	67	7,890	71	-19.1	-5.3
Nevada	1,847	142	2,105	142	5,124	148	6,019	143	-14.9	3.4
New Mexico	3,943	134	3,941	130	10,727	141	10,748	132	-.2	6.9
Utah	3,418	122	3,155	131	10,597	121	9,463	124	12.0	-2.7
Wyoming	5,935	81	6,154	76	17,189	81	17,997	75	-4.5	8.2
Pacific	**1,753**	**125**	**2,225**	**128**	**5,151**	**131**	**5,602**	**128**	**-8.0**	**1.8**
Oregon	565	115	506	113	1,304	114	1,357	110	-3.9	2.9
Washington	1,188	130	1,719	133	3,847	137	4,245	135	-9.4	1.3
U.S. Total	**190,957**	**138**	**201,143**	**140**	**569,406**	**139**	**579,054**	**141**	**-1.7**	**-2.0**

* For percentage calculations, the absolute value of the number is less than 0.05 percent.
Notes: Total may not equal sum of components because of independent rounding. MM Btu represents million Btu.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

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

Census Division and State	July-September 1993		July-September 1992		Year to Date					
					1993		1992		Percent Change	
	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)	Quantity	Price
New England	**1,218**	**165**	**1,313**	**169**	**3,846**	**167**	**4,213**	**174**	**-8.7**	**-4.2**
Connecticut	217	171	135	174	648	170	537	206	20.7	-17.3
Massachusetts	678	166	916	169	2,284	167	2,869	169	-20.4	-1.1
New Hampshire	322	157	262	168	914	162	807	169	13.4	-4.2
Mid Atlantic	**6,337**	**154**	**9,013**	**155**	**24,003**	**154**	**28,760**	**160**	**-16.5**	**-3.7**
New Jersey	178	168	353	171	1,288	177	1,523	174	-15.4	1.8
New York	879	161	1,498	153	3,059	156	4,439	157	-31.1	-.4
Pennsylvania	5,280	152	7,161	155	19,655	152	22,798	160	-13.8	-4.7
East North Central	**29,217**	**151**	**34,218**	**153**	**89,657**	**151**	**100,043**	**154**	**-10.4**	**-2.0**
Illinois	5,523	181	5,669	177	16,720	182	17,393	177	-3.9	2.8
Indiana	6,936	132	8,563	139	22,486	133	26,358	137	-14.7	-3.4
Michigan	6,708	154	7,284	159	16,960	155	17,282	162	-1.7	-4.2
Ohio	7,721	154	9,722	153	25,524	152	29,591	154	-13.7	-1.5
Wisconsin	2,330	125	2,980	137	7,947	125	9,418	141	-15.6	-11.3
West North Central	**19,096**	**102**	**22,554**	**114**	**62,257**	**103**	**64,195**	**114**	**-3.0**	**-9.9**
Iowa	2,375	109	3,428	121	7,888	104	8,782	123	-10.2	-15.4
Kansas	2,924	110	2,341	125	8,600	109	7,601	126	13.1	-13.4
Minnesota	2,432	121	3,689	122	9,551	116	10,345	124	-7.7	-4.7
Missouri	3,527	121	5,550	134	12,937	123	15,069	136	-14.1	-9.7
Nebraska	1,411	77	1,301	81	5,057	79	4,064	80	24.4	-.6
North Dakota	5,979	72	5,817	74	16,684	72	16,849	73	-1.0	-.1
South Dakota	448	110	429	111	1,539	109	1,485	116	3.6	-5.4
South Atlantic	**22,059**	**172**	**24,116**	**174**	**70,231**	**172**	**72,701**	**175**	**-3.4**	**-2.0**
Delaware	374	168	434	172	1,450	170	1,098	173	32.0	-2.1
Florida	4,553	188	4,741	194	13,595	189	14,348	196	-5.2	-3.2
Georgia	4,613	184	5,079	186	13,575	186	14,663	186	-7.4	-.4
Maryland	1,425	161	1,709	160	4,758	161	5,315	164	-10.5	-1.9
North Carolina	3,913	179	3,864	181	12,099	177	11,751	183	3.0	-3.1
South Carolina	1,736	158	1,459	156	5,586	159	3,882	158	43.9	.3
Virginia	1,749	147	1,557	149	5,037	148	4,679	149	7.7	-.8
West Virginia	3,695	153	5,273	158	14,131	156	16,965	159	-16.7	-2.2
East South Central	**13,699**	**146**	**17,219**	**142**	**47,336**	**146**	**51,520**	**143**	**-8.1**	**2.4**
Alabama	4,471	191	5,508	178	15,455	189	16,113	180	-4.1	5.0
Kentucky	6,111	118	6,310	118	18,196	118	18,604	119	-2.2	-.4
Mississippi	648	166	745	164	1,890	168	2,072	164	-8.8	2.3
Tennessee	2,469	127	4,657	129	11,794	128	14,731	128	-19.9	.1
West South Central	**32,973**	**142**	**34,538**	**144**	**92,393**	**145**	**92,446**	**147**	**-.1**	**-1.8**
Arkansas	2,691	180	2,788	184	7,065	174	8,005	170	-11.5	2.4
Louisiana	3,171	158	3,716	150	9,581	159	9,749	153	-1.7	3.9
Oklahoma	3,366	129	4,340	127	11,075	127	11,498	126	-3.7	.6
Texas	23,744	137	23,694	144	64,652	142	63,194	147	2.3	-3.7
Mountain	**25,192**	**116**	**25,308**	**115**	**68,743**	**117**	**70,110**	**113**	**-2.0**	**3.5**
Arizona	4,659	140	4,203	146	10,679	140	10,821	139	-1.3	.8
Colorado	3,916	109	3,691	112	11,493	112	10,544	111	9.0	.3
Montana	2,758	67	2,958	68	6,370	67	7,890	71	-19.1	-5.3
Nevada	1,847	142	2,105	142	5,124	148	6,019	143	-14.9	3.4
New Mexico	3,943	134	3,941	130	10,727	141	10,748	132	-.2	6.9
Utah	3,035	128	2,975	134	9,261	128	8,649	127	7.1	1.0
Wyoming	5,033	84	5,434	79	15,079	84	15,440	77	-2.3	9.1
Pacific	**1,148**	**129**	**1,252**	**136**	**3,291**	**139**	**3,771**	**137**	**-12.7**	**1.6**
Washington	1,148	129	1,252	136	3,291	139	3,771	137	-12.7	1.6
U.S. Total	**150,937**	**142**	**169,531**	**145**	**461,756**	**144**	**497,758**	**146**	**-5.3**	**-1.8**

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	July-September 1993		July-September 1992		Year to Date					
					1993		1992		Percent Change	
	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)	Quantity	Price
New England	**274**	**160**	**205**	**170**	**482**	**163**	**433**	**170**	**11.3**	**-3.9**
Connecticut	-	-	27	181	-	-	80	178	-	-
Massachusetts	260	159	100	169	430	164	246	169	75.0	-2.9
New Hampshire	14	175	78	169	52	157	108	166	-51.6	-5.0
Mid Atlantic	**4,161**	**128**	**4,440**	**126**	**10,740**	**124**	**11,562**	**127**	**-7.1**	**-2.5**
New Jersey	-	-	-	-	89	173	27	161	222.1	7.1
New York	830	136	1,204	139	2,425	135	3,239	140	-25.1	-3.2
Pennsylvania	3,352	126	3,236	121	8,226	120	8,296	122	-.8	-1.7
East North Central	**11,788**	**124**	**9,484**	**118**	**31,626**	**117**	**28,308**	**117**	**11.7**	**-.5**
Illinois	1,341	139	620	125	2,986	129	2,081	125	43.5	3.2
Indiana	3,420	114	3,205	117	9,684	113	10,312	117	-6.1	-4.1
Michigan	1,892	150	1,233	130	3,315	145	3,550	134	-6.6	8.1
Ohio	3,143	112	2,728	109	10,450	110	8,425	109	24.0	1.1
Wisconsin	1,992	119	1,698	124	5,190	115	3,941	121	31.7	-4.8
West North Central	**5,089**	**91**	**3,034**	**90**	**12,024**	**92**	**11,698**	**94**	**1.1**	**-2.8**
Iowa	1,621	84	711	82	3,917	89	3,102	82	26.3	9.0
Kansas	1,348	81	799	97	3,525	84	2,879	98	22.5	-13.9
Minnesota	1,066	104	134	114	1,752	110	507	109	245.3	1.2
Missouri	483	130	630	107	806	129	3,299	116	-75.6	11.6
Nebraska	571	68	760	70	1,283	70	1,812	67	-29.2	4.1
North Dakota	-	-	-	-	741	75	299	44	147.8	68.5
South Atlantic	**7,809**	**144**	**7,761**	**135**	**20,569**	**136**	**18,930**	**132**	**8.7**	**3.7**
Delaware	1	147	-	-	30	163	22	174	35.0	-6.2
Florida	1,318	149	1,563	141	4,385	138	4,046	138	8.4	-.4
Georgia	1,344	164	829	145	3,846	154	1,263	144	204.5	7.0
Maryland	701	156	645	145	1,602	152	1,619	148	-1.0	2.9
North Carolina	1,857	150	1,958	141	3,411	146	2,780	139	22.7	4.6
South Carolina	795	152	1,022	144	1,574	150	2,942	143	-46.5	5.0
Virginia	449	145	552	143	1,558	142	1,947	140	-20.0	1.4
West Virginia	1,344	101	1,192	96	4,163	98	4,311	99	-3.4	-1.1
East South Central	**7,644**	**123**	**3,339**	**113**	**18,667**	**119**	**7,905**	**115**	**136.1**	**4.0**
Alabama	1,713	130	1,059	125	4,022	128	2,205	130	82.4	-2.3
Kentucky	3,342	116	1,702	105	8,245	111	4,506	105	83.0	5.4
Mississippi	149	154	182	133	674	150	487	131	38.4	14.6
Tennessee	2,440	127	396	106	5,726	121	707	111	NM	9.2
West South Central	**874**	**116**	**625**	**122**	**5,070**	**142**	**4,206**	**137**	**20.5**	**3.3**
Arkansas	-	-	-	-	929	129	474	126	96.0	2.1
Louisiana	23	126	-	-	23	126	-	-	-	-
Oklahoma	521	94	353	92	736	93	633	97	16.2	-4.2
Texas	330	144	472	141	3,381	156	3,101	147	9.0	5.8
Mountain	**1,755**	**78**	**1,551**	**79**	**6,612**	**86**	**6,220**	**86**	**6.3**	**-.7**
Arizona	371	120	156	118	2,811	110	1,380	102	103.7	8.0
Colorado	98	72	496	92	356	82	1,469	99	-75.8	-17.6
Utah	383	72	180	80	1,335	73	813	100	64.2	-26.3
Wyoming	902	63	720	60	2,110	62	2,557	63	-17.5	-2.4
Pacific	**605**	**118**	**973**	**119**	**1,860**	**118**	**1,831**	**115**	**1.6**	**3.2**
Oregon	565	115	506	113	1,304	114	1,357	110	-3.9	2.9
Washington	40	136	467	125	556	128	474	126	17.5	1.4
U.S. Total	**40,019**	**124**	**31,612**	**120**	**107,649**	**120**	**91,296**	**119**	**17.9**	**.9**

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	July-September 1993	April-June 1993	July-September 1992	Year to Date		
				1993	1992	Percent Change
New England	**$42.72**	**$43.40**	**$44.24**	**$43.39**	**$45.55**	**-4.7**
Connecticut	45.13	44.71	45.91	44.77	53.21	-15.9
Massachusetts	42.55	43.56	43.82	43.30	44.28	-2.2
New Hampshire	41.62	41.91	44.70	42.71	44.68	-4.4
Mid Atlantic	**35.97**	**36.24**	**36.44**	**36.41**	**37.81**	**-3.7**
New Jersey	44.11	48.00	45.76	47.52	46.82	1.5
New York	38.60	37.39	38.00	38.11	38.92	-2.1
Pennsylvania	35.28	35.35	35.72	35.53	37.09	-4.2
East North Central	**31.00**	**$0.84**	**31.90**	**30.96**	**32.12**	**-3.6**
Illinois	35.15	36.33	36.65	36.05	36.63	-1.6
Indiana	26.71	26.99	28.23	26.75	28.00	-4.5
Michigan	32.59	32.61	33.10	33.18	34.56	-4.0
Ohio	34.18	33.42	34.40	33.66	34.48	-2.4
Wisconsin	23.50	23.07	25.87	22.86	26.35	-13.2
West North Central	**16.38**	**17.20**	**19.11**	**16.89**	**19.16**	**-11.9**
Iowa	16.99	18.01	20.57	17.07	20.00	-14.6
Kansas	17.31	17.73	21.12	17.62	21.08	-16.4
Minnesota	20.42	20.93	21.61	20.62	21.75	-5.2
Missouri	23.64	24.06	26.88	24.44	27.47	-11.0
Nebraska	12.77	13.35	13.15	13.25	12.95	2.4
North Dakota	9.50	9.67	9.62	9.52	9.45	.7
South Dakota	13.29	13.20	13.33	13.27	13.98	-5.1
South Atlantic	**41.28**	**40.70**	**41.02**	**40.94**	**41.48**	**-1.3**
Delaware	43.71	44.21	44.93	44.21	45.22	-2.2
Florida	44.44	43.65	44.78	43.75	45.40	-3.6
Georgia	44.44	43.24	43.38	43.69	44.11	-.9
Maryland	40.88	39.97	39.57	40.39	40.80	-1.0
North Carolina	42.33	42.04	41.75	42.46	43.46	-2.3
South Carolina	40.09	40.39	38.74	40.16	38.91	3.2
Virginia	37.80	37.50	37.92	37.64	37.60	.1
West Virginia	34.75	35.78	36.72	35.68	36.84	-3.1
East South Central	**33.14**	**33.56**	**32.87**	**33.20**	**33.24**	**-.1**
Alabama	42.28	42.96	40.92	42.71	42.16	1.3
Kentucky	27.43	26.80	26.66	27.11	26.95	.6
Mississippi	41.56	38.76	39.42	40.20	39.63	1.4
Tennessee	31.26	31.10	31.04	30.80	31.01	-.7
West South Central	**21.52**	**22.07**	**21.83**	**22.00**	**22.41**	**-1.8**
Arkansas	31.22	28.72	28.56	29.31	29.30	*
Louisiana	25.48	25.61	24.31	25.65	24.83	3.3
Oklahoma	21.32	21.86	21.60	21.58	21.82	-1.1
Texas	19.94	20.78	20.71	20.70	21.29	-2.8
Mountain	**22.05**	**23.16**	**21.99**	**22.27**	**21.58**	**3.2**
Arizona	28.57	27.05	29.64	27.51	27.79	-1.0
Colorado	21.58	22.27	21.77	21.84	21.71	.6
Montana	11.49	12.02	11.67	11.36	12.14	-6.4
Nevada	30.91	36.04	31.51	32.60	31.70	2.9
New Mexico	24.07	26.27	23.41	25.30	23.78	6.4
Utah	28.03	27.76	29.62	27.76	28.24	-1.7
Wyoming	14.21	13.57	13.59	14.16	13.22	7.1
Pacific	**20.36**	**23.19**	**22.09**	**21.59**	**21.69**	**-.5**
Oregon	19.43	19.78	21.42	19.87	21.14	-6.0
Washington	20.79	23.84	22.29	22.18	21.87	1.4
U.S. Total	**28.32**	**28.94**	**29.01**	**28.64**	**29.41**	**-2.6**

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

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

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-September 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	3,680	257	8,399	180	455	141	12,535	201	1.00	0.8	2.6	-4.0
Arizona	8,662	112	-	-	-	-	8,662	112	.45	-7.7	2.9	-3.9
Colorado	12,478	139	209	93	-	-	12,687	139	.40	2.2	.7	2.5
Illinois	22	162	8,092	150	23,639	152	31,753	151	2.22	-23.8	-3.8	-4.7
Indiana	396	134	1,827	119	15,049	122	17,272	122	2.23	-9.3	-2.0	1.8
Iowa	-	-	-	-	15	174	15	174	3.04	-72.7	1.8	-35.4
Kansas	-	-	-	-	225	129	225	129	2.92	-.8	.5	1.6
Kentucky	11,360	160	51,152	156	26,229	121	88,740	147	1.37	2.0	-.4	-4.5
Louisiana	-	-	2,360	139	-	-	2,360	139	.95	-3.0	1.1	5.5
Maryland	-	-	2,129	141	12	111	2,141	141	1.32	-9.8	3.6	-2.2
Missouri	-	-	-	-	250	239	250	239	4.03	-87.8	56.7	1.1
Montana	12,693	169	12,084	96	-	-	24,777	135	.58	-9.2	.8	-.1
New Mexico	6,784	152	13,038	146	-	-	19,822	148	.70	13.3	2.4	-5.7
North Dakota	-	-	18,615	75	344	76	18,958	75	1.14	1.7	*	-18.4
Ohio	2	138	1,343	122	19,394	141	20,738	140	2.80	-6.0	-.7	-2.7
Oklahoma	2	43	1	23	35	110	38	106	2.68	-83.5	-9.5	21.1
Pennsylvania	1,061	162	21,912	143	10,753	125	33,725	138	1.52	-10.1	-6.5	3.5
Tennessee	105	132	1,315	140	149	111	1,569	137	1.10	-25.9	3.7	-1.6
Texas	-	-	23,106	110	16,442	126	39,547	116	1.66	1.1	-.2	-2.2
Utah	11,005	119	9	82	-	-	11,014	119	.40	9.4	-4.6	2.2
Virginia	3,129	169	9,086	161	82	124	12,298	163	.82	-.5	-.7	-4.8
Washington	19	127	3,320	139	-	-	3,339	139	.93	-11.7	1.5	5.1
West Virginia	18,934	168	26,128	149	12,855	141	57,918	153	1.15	-7.1	-2.8	-11.6
Wyoming	136,955	127	9,390	93	-	-	146,345	125	.42	7.9	-2.4	-3.2
Imported	2,260	150	397	145	-	-	2,657	150	.54	103.8	-4.5	-10.1
Total	**229,567**	**140**	**213,910**	**140**	**125,929**	**134**	**569,406**	**139**	**1.15**	**-1.7**	**-2.0**	**-8.0**

* For percentage calculations, the absolute value of the number is less than 0.05 percent.
Notes: Total may not equal sum of components because of independent rounding. MM Btu represents million Btu.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 36. Destination of Coal Received at Electric Utility Plants by Origin, January-September 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	**19,477**	**18,316**	**79.4**	**88.0**	**1.10**	**1.18**	**177**	**174**
Alabama	12,523	12,336	88.7	85.2	.99	1.03	201	197
Illinois	633	549	90.8	93.5	1.75	1.68	125	123
Indiana	10	-	-	-	3.12	-	102	-
Kentucky	3,832	2,686	44.2	88.0	1.49	2.22	126	118
Ohio	59	-	-	-	3.34	-	120	-
Pennsylvania	52	-	-	-	1.89	-	120	-
Tennessee	336	622	94.0	100.0	.80	.65	127	130
West Virginia	2,032	2,125	86.8	98.9	.74	.83	145	142
Arizona	**13,490**	**12,201**	**79.2**	**88.7**	**.48**	**.49**	**134**	**135**
Arizona	5,434	5,474	100.0	100.0	.45	.47	106	104
Colorado	-	119	-	100.0	-	.34	-	168
New Mexico	8,056	6,608	65.1	79.1	.50	.52	156	164
Arkansas	**8,014**	**8,479**	**88.4**	**94.4**	**.37**	**.36**	**169**	**168**
Wyoming	8,014	8,479	88.4	94.4	.37	.36	169	168
Colorado	**11,849**	**12,013**	**97.0**	**87.8**	**.39**	**.38**	**111**	**110**
Colorado	7,762	8,094	95.4	81.8	.39	.38	113	112
Wyoming	4,087	3,919	100.0	100.0	.38	.39	104	103
Connecticut	**648**	**617**	**100.0**	**87.0**	**.42**	**.42**	**170**	**202**
Kentucky	573	617	100.0	87.0	.41	.42	170	202
West Virginia	75	-	100.0	-	.50	-	169	-
Delaware	**1,490**	**1,120**	**98.0**	**98.0**	**.72**	**.78**	**170**	**173**
Pennsylvania	144	114	99.4	80.7	1.05	1.07	166	178
Virginia	148	29	100.0	100.0	.65	.65	204	198
West Virginia	1,187	977	97.6	100.0	.69	.75	166	172
Florida	**17,980**	**18,394**	**75.6**	**78.0**	**1.30**	**1.35**	**177**	**183**
Alabama	12	72	-	-	2.44	2.28	199	121
Colorado	-	181	-	-	-	.34	-	147
Illinois	4,458	4,068	63.1	75.9	2.21	2.36	178	197
Indiana	45	-	-	-	3.12	-	159	-
Kentucky	9,370	11,148	86.9	77.3	1.12	1.16	181	178
Tennessee	225	196	100.0	100.0	.85	.92	205	216
Utah	187	32	-	-	.31	.34	152	164
Virginia	650	632	96.5	100.0	.58	.58	213	228
West Virginia	1,124	1,003	73.1	97.7	1.20	1.11	171	202
Wyoming	-	12	-	-	-	.23	-	142
Imported coal Colombia	1,721	1,051	55.4	79.8	.58	.60	142	153
Imported coal Venezuela	188	-	-	-	.44	-	179	-
Georgia	**17,421**	**15,926**	**77.9**	**92.1**	**1.17**	**1.44**	**178**	**183**
Alabama	-	29	-	-	-	1.79	-	135
Illinois	2,803	3,740	97.8	100.0	2.42	2.47	205	210
Indiana	153	369	100.0	100.0	2.25	2.24	137	138
Kentucky	9,731	8,463	76.3	89.3	1.02	1.21	164	166
Tennessee	15	-	-	-	1.18	-	171	-
Virginia	2,214	1,976	87.3	96.3	1.01	1.06	182	181
West Virginia	2,505	1,348	52.7	81.1	.55	.56	205	239
Illinois	**19,705**	**19,474**	**84.8**	**89.3**	**1.62**	**1.85**	**173**	**171**
Colorado	649	377	1.1	-	.40	.39	134	141
Illinois	9,819	11,760	85.2	93.7	2.63	2.65	137	141
Indiana	731	655	58.5	64.2	1.57	1.57	136	137
Kentucky	987	881	69.9	74.1	.63	.51	161	168
Montana	2,382	2,093	98.8	100.0	.41	.37	261	285
Utah	136	197	-	-	.35	.37	132	119
West Virginia	219	400	52.2	69.6	.55	.57	163	152
Wyoming	4,783	3,110	99.5	94.2	.33	.46	237	248
Indiana	**32,169**	**36,870**	**69.9**	**71.9**	**1.68**	**1.78**	**127**	**131**
Colorado	661	544	77.0	41.8	.37	.37	149	156
Illinois	4,387	7,491	85.1	84.4	1.88	2.39	149	155
Indiana	14,141	14,581	63.7	66.0	2.23	2.20	120	121
Kentucky	2,841	3,413	88.3	78.4	2.50	2.23	117	120
Montana	356	429	100.0	100.0	.41	.37	254	278
Ohio	134	18	-	-	2.91	2.48	129	128
Pennsylvania	129	-	-	-	1.94	-	129	-
Utah	55	-	-	-	.30	-	177	-
Virginia	92	112	-	-	.54	.53	166	160
West Virginia	418	1,356	30.9	2.9	.53	.57	155	139
Wyoming	8,942	8,726	69.7	80.7	.39	.40	120	123
Imported coal Indonesia	11	-	-	-	.14	-	105	-

See footnotes at end of table.

Table 36. Destination of Coal Received at Electric Utility Plants by Origin, January-September 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	**11,805**	**11,884**	**66.8**	**73.9**	**0.57**	**0.77**	**99**	**113**
Illinois	318	1,138	78.6	100.0	2.02	2.29	139	171
Indiana	206	395	78.2	91.8	2.10	2.26	138	128
Iowa	15	55	100.0	100.0	3.04	4.71	174	171
Kentucky	-	13	-	-	-	2.81	-	105
Ohio	31	-	-	-	2.28	-	206	-
Wyoming	11,235	10,283	66.4	70.3	.47	.44	96	103
Kansas	**12,126**	**10,480**	**70.9**	**72.5**	**.49**	**.57**	**102**	**118**
Colorado	60	186	100.0	81.7	.38	.43	118	113
Illinois	243	681	28.1	23.8	2.41	2.22	178	146
Kansas	64	68	100.0	100.0	2.58	2.53	120	121
Missouri	47	48	-	-	4.55	3.04	107	118
Wyoming	11,711	9,497	71.8	76.0	.40	.38	100	116
Kentucky	**26,441**	**23,110**	**68.8**	**80.5**	**2.05**	**2.13**	**116**	**116**
Colorado	160	-	-	-	.56	-	133	-
Illinois	346	-	2.1	-	2.22	-	117	-
Indiana	906	1,604	37.6	57.4	2.41	2.48	101	100
Kentucky	20,522	19,037	76.5	82.7	2.29	2.26	114	116
Ohio	404	91	70.4	98.1	2.00	2.27	166	182
Pennsylvania	250	23	-	-	1.92	1.94	106	101
Tennessee	196	438	-	94.1	2.00	2.04	111	113
West Virginia	3,365	1,917	55.5	75.2	.77	.71	124	126
Wyoming	291	-	-	-	.59	-	124	-
Louisiana	**9,604**	**9,749**	**99.8**	**100.0**	**.61**	**.61**	**158**	**153**
Louisiana	2,360	2,434	99.0	100.0	.95	.90	139	137
Wyoming	7,244	7,315	100.0	100.0	.52	.53	164	157
Maryland	**6,360**	**6,933**	**74.8**	**76.7**	**1.03**	**1.05**	**158**	**160**
Kentucky	693	196	66.1	83.7	.60	.57	159	155
Maryland	785	776	68.9	64.1	1.21	1.25	169	169
Pennsylvania	1,726	2,184	89.9	77.9	1.45	1.48	170	170
Virginia	7	78	-	-	.56	.57	161	170
West Virginia	3,072	3,700	71.8	79.8	.87	.79	149	152
Imported coal Colombia	77	-	-	-	.48	-	159	-
Massachusetts	**2,714**	**3,115**	**84.2**	**92.1**	**.81**	**.90**	**167**	**169**
Kentucky	119	10	-	-	.54	.49	175	171
Maryland	10	-	-	-	1.00	-	166	-
Pennsylvania	253	269	100.0	71.2	1.15	1.02	166	169
Virginia	-	522	-	99.5	-	.82	-	176
West Virginia	1,926	2,176	87.7	94.4	.85	.92	167	168
Imported coal Canada	-	33	-	-	-	1.03	-	175
Imported coal Colombia	108	-	74.2	-	.51	-	171	-
Imported coal Venezuela	297	104	87.7	100.0	.48	.55	160	167
Michigan	**20,296**	**20,831**	**83.7**	**83.0**	**.62**	**.63**	**153**	**157**
Indiana	142	132	50.7	45.6	2.36	2.30	159	151
Kentucky	4,669	4,877	73.7	85.2	.72	.74	170	172
Montana	7,690	7,623	98.4	100.0	.42	.40	153	153
Ohio	156	33	100.0	100.0	2.66	2.84	204	223
Pennsylvania	1,039	1,309	84.5	80.8	1.19	1.29	150	155
Virginia	20	-	50.0	-	.77	-	181	-
West Virginia	3,424	4,358	70.4	71.3	.66	.67	156	163
Wyoming	3,155	2,500	77.5	49.7	.32	.33	108	111
Minnesota	**11,303**	**10,852**	**84.5**	**95.3**	**.49**	**.52**	**117**	**123**
Illinois	29	36	33.9	56.3	1.34	1.72	172	154
Indiana	-	*	-	100.0	-	1.11	-	90
Kentucky	1	-	-	-	1.64	-	165	-
Montana	5,683	5,904	95.4	96.9	.68	.68	118	124
Ohio	1	-	-	-	1.10	-	99	-
Pennsylvania	-	11	-	5.6	-	1.53	-	142
West Virginia	6	-	93.3	-	.58	-	161	-
Wyoming	5,582	4,901	73.7	93.9	.29	.30	115	122
Mississippi	**2,564**	**2,559**	**73.7**	**81.0**	**1.13**	**1.35**	**164**	**158**
Colorado	137	-	-	-	.39	-	159	-
Illinois	824	978	91.3	83.8	2.14	2.16	134	132
Kentucky	1,343	1,440	84.7	86.9	.68	.87	183	178
Montana	178	82	-	-	.42	.32	159	136
West Virginia	16	-	-	-	.96	-	146	-
Wyoming	-	59	-	-	-	.40	-	153
Imported coal Indonesia	68	-	-	-	.08	-	169	-

See footnotes at end of table.

Table 36. Destination of Coal Received at Electric Utility Plants by Origin, January-September 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
Missouri	**13,743**	**18,369**	**94.1**	**82.0**	**1.12**	**1.76**	**124**	**133**
Colorado	350	362	62.9	97.5	.39	.42	155	160
Illinois	4,096	8,445	94.1	91.5	2.01	2.11	159	153
Indiana	527	-	96.4	-	2.82	-	122	-
Kansas	161	158	100.0	43.2	3.06	3.03	133	132
Kentucky	100	570	95.7	94.4	1.77	2.88	156	125
Missouri	203	2,011	85.7	98.0	3.91	4.02	271	153
Utah	167	79	45.6	-	.42	.35	136	141
Wyoming	8,139	6,743	96.4	65.4	.32	.34	93	92
Montana	**6,379**	**7,890**	**100.0**	**100.0**	**.77**	**.77**	**67**	**71**
Montana	6,379	7,890	100.0	100.0	.77	.77	67	71
Nebraska	**6,340**	**5,876**	**79.8**	**69.2**	**.41**	**.42**	**77**	**76**
Colorado	-	*	-	-	-	.35	-	159
Oklahoma	3	-	-	-	.37	-	38	-
Wyoming	6,337	5,876	79.8	69.2	.41	.42	77	76
Nevada	**5,124**	**6,019**	**100.0**	**100.0**	**.44**	**.45**	**148**	**143**
Arizona	3,248	3,934	100.0	100.0	.46	.47	124	117
Colorado	328	93	100.0	100.0	.44	.40	214	217
Utah	1,020	1,452	100.0	100.0	.38	.38	177	187
Wyoming	527	540	100.0	100.0	.48	.53	201	200
New Hampshire	**967**	**914**	**94.6**	**88.2**	**1.25**	**1.21**	**162**	**168**
Pennsylvania	496	492	98.2	100.0	1.23	1.17	167	171
West Virginia	367	364	88.2	78.7	1.51	1.37	158	165
Imported coal Colombia	52	30	100.0	-	.50	.52	150	156
Imported coal Venezuela	52	28	100.0	100.0	.46	.44	139	172
New Jersey	**1,377**	**1,550**	**93.6**	**98.2**	**.94**	**.99**	**176**	**173**
Kentucky	76	91	100.0	90.6	.63	.61	186	180
Pennsylvania	8	-	-	-	1.97	-	152	-
Virginia	566	651	97.6	98.3	.56	.59	179	177
West Virginia	728	808	90.8	99.0	1.27	1.38	173	170
New Mexico	**10,727**	**10,748**	**100.0**	**100.0**	**.90**	**.89**	**141**	**132**
New Mexico	10,727	10,748	100.0	100.0	.90	.89	141	132
New York	**5,484**	**7,678**	**55.8**	**57.8**	**1.20**	**1.26**	**147**	**150**
Kentucky	243	287	96.3	70.0	.41	.43	207	207
Maryland	-	14	-	-	-	1.40	-	142
Ohio	8	-	-	-	1.78	-	162	-
Pennsylvania	3,979	5,048	51.5	53.6	1.33	1.34	137	143
West Virginia	1,254	2,329	61.9	65.9	.97	1.20	167	158
North Carolina	**15,510**	**14,531**	**78.0**	**80.9**	**.77**	**.74**	**170**	**174**
Kentucky	7,545	6,837	77.3	78.2	.81	.75	172	178
Tennessee	1	23	-	-	.90	1.06	148	150
Virginia	3,479	3,368	96.1	95.6	.82	.86	169	173
West Virginia	4,485	4,303	65.3	74.0	.67	.63	168	170
North Dakota	**17,424**	**17,148**	**95.7**	**98.3**	**1.11**	**1.39**	**73**	**72**
North Dakota	17,419	17,148	95.8	98.3	1.11	1.39	73	72
Wyoming	5	-	-	-	.74	-	71	-
Ohio	**35,974**	**38,016**	**71.0**	**77.8**	**2.00**	**2.16**	**139**	**144**
Indiana	-	135	-	-	-	3.03	-	90
Kentucky	5,596	6,084	73.2	67.2	.84	.98	153	143
Ohio	18,326	20,531	77.8	82.5	2.82	2.87	139	143
Pennsylvania	2,500	2,217	22.7	59.7	1.70	1.61	110	132
Virginia	40	-	-	-	.53	-	155	-
West Virginia	9,511	8,995	69.4	80.5	1.23	1.51	141	151
Wyoming	-	54	-	-	-	.41	-	121
Oklahoma	**11,812**	**12,132**	**93.8**	**94.8**	**.44**	**.49**	**125**	**125**
Oklahoma	35	229	100.0	75.5	2.81	2.21	110	117
Wyoming	11,777	11,903	93.7	95.1	.43	.44	125	125
Oregon	**1,304**	**1,357**	**-**	**-**	**.44**	**.41**	**114**	**110**
Montana	355	1,357	-	-	.43	.41	113	110
Wyoming	949	-	-	-	.44	-	114	-
Pennsylvania	**27,882**	**31,094**	**70.5**	**73.3**	**1.66**	**1.72**	**143**	**150**
Kentucky	4	-	100.0	-	2.30	-	169	-
Ohio	988	334	95.7	80.5	2.57	2.79	167	155
Pennsylvania	21,554	23,497	63.6	66.3	1.54	1.51	139	147
West Virginia	5,336	7,262	93.5	95.7	2.00	2.35	155	156
South Carolina	**7,160**	**6,824**	**78.0**	**56.9**	**.90**	**.88**	**157**	**152**
Kentucky	6,389	6,162	76.8	52.3	.90	.86	157	151
Virginia	763	610	89.1	100.0	.89	1.05	152	154
West Virginia	8	53	-	100.0	.76	.82	156	184

See footnotes at end of table.

Table 36. Destination of Coal Received at Electric Utility Plants by Origin, January-September 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
South Dakota	**1,539**	**1,485**	**100.0**	**100.0**	**1.47**	**1.49**	**109**	**116**
North Dakota	1,539	1,485	100.0	100.0	1.47	1.49	109	116
Tennessee	**17,520**	**15,438**	**67.3**	**95.4**	**1.60**	**1.68**	**126**	**127**
Colorado	153	-	-	-	.50	-	116	-
Illinois	3,444	2,003	44.1	83.0	1.89	1.74	122	123
Kentucky	11,334	11,463	76.0	97.8	1.61	1.77	127	128
Ohio	45	-	13.9	-	2.42	-	131	-
Pennsylvania	15	-	30.1	-	1.63	-	116	-
Tennessee	796	838	84.9	95.3	1.07	1.04	127	123
Virginia	1,068	1,062	85.7	99.7	1.06	1.21	123	128
West Virginia	664	-	8.9	-	1.71	-	126	-
Wyoming	-	71	-	-	-	.58	-	132
Texas	**68,033**	**66,295**	**95.0**	**95.3**	**1.03**	**1.06**	**143**	**147**
Colorado	1,210	1,299	72.4	72.4	.37	.35	207	208
Texas	39,547	39,107	100.0	99.5	1.66	1.69	116	116
Wyoming	27,215	25,846	89.0	90.3	.40	.41	168	178
Imported coal Colombia	61	-	-	-	.49	-	149	-
Imported coal Venezuela	-	42	-	-	-	.50	-	176
Utah	**10,597**	**9,463**	**87.4**	**91.4**	**.41**	**.41**	**121**	**124**
Colorado	1,149	1,152	100.0	100.0	.42	.46	205	208
Utah	9,448	8,311	85.9	90.2	.41	.40	111	113
Virginia	**6,595**	**6,626**	**76.4**	**70.6**	**.79**	**.80**	**147**	**147**
Kentucky	2,299	1,941	61.9	66.2	.82	.85	145	150
Virginia	3,157	3,264	85.0	77.7	.72	.74	144	141
West Virginia	1,139	1,421	81.8	60.4	.91	.86	159	154
Washington	**3,847**	**4,245**	**85.5**	**88.8**	**.85**	**.83**	**137**	**135**
Montana	486	447	-	-	.44	.44	126	123
Washington	3,339	3,780	98.6	99.8	.93	.89	139	137
Wyoming	-	2	-	-	-	.25	-	181
Imported coal Canada	23	15	-	-	.48	.42	180	215
West Virginia	**18,294**	**21,276**	**77.2**	**79.7**	**1.53**	**1.65**	**143**	**147**
Kentucky	398	383	95.0	93.8	.73	.71	183	181
Maryland	1,345	1,583	78.7	69.4	1.39	1.40	125	120
Ohio	586	1,051	-	-	3.20	3.22	88	92
Pennsylvania	1,178	960	29.6	39.1	2.22	2.08	106	111
West Virginia	14,786	17,298	83.5	87.5	1.45	1.57	148	154
Wisconsin	**13,138**	**13,359**	**60.5**	**70.5**	**.52**	**.77**	**121**	**135**
Colorado	67	-	-	-	.38	-	152	-
Illinois	351	807	.9	37.9	.97	1.24	129	144
Indiana	411	1,177	99.8	92.7	1.97	1.84	193	194
Kentucky	74	384	-	-	.67	.97	174	144
Montana	1,269	1,470	68.8	72.5	.71	.75	143	154
New Mexico	1,039	135	98.6	100.0	.39	.44	154	150
Pennsylvania	401	1,374	95.8	100.0	1.19	1.19	167	156
Virginia	93	50	-	-	.53	.48	169	155
West Virginia	272	170	29.4	59.4	.56	.52	162	162
Wyoming	9,162	7,793	56.5	68.6	.36	.39	101	110
Wyoming	**17,189**	**17,997**	**87.7**	**85.8**	**.58**	**.59**	**81**	**75**
Wyoming	17,189	17,997	87.7	85.8	.58	.59	81	75
U.S. Total	**569,406**	**579,054**	**81.1**	**84.2**	**1.15**	**1.26**	**139**	**141**

* 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-September 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	**12,535**	**12,437**	**88.6**	**84.5**	**1.00**	**1.04**	**201**	**196**
Alabama	12,523	12,336	88.7	85.2	.99	1.03	201	197
Florida	12	72	-	-	2.44	2.28	199	121
Georgia	-	29	-	-	-	1.79	-	135
Arizona	**8,682**	**9,408**	**100.0**	**100.0**	**.45**	**.47**	**112**	**109**
Arizona	5,434	5,474	100.0	100.0	.45	.47	106	104
Nevada	3,248	3,934	100.0	100.0	.46	.47	124	117
Colorado	**12,687**	**12,408**	**83.2**	**77.9**	**.40**	**.39**	**139**	**138**
Arizona	-	119	-	100.0	-	.34	-	168
Colorado	7,762	8,094	95.4	81.8	.39	.38	113	112
Florida	-	181	-	-	-	.34	-	147
Illinois	649	377	1.1	-	.40	.39	134	141
Indiana	661	544	77.0	41.8	.37	.37	149	156
Kansas	60	186	100.0	81.7	.38	.43	118	113
Kentucky	160	-	-	-	.56	-	133	-
Mississippi	137	-	-	-	.39	-	159	-
Missouri	350	362	62.9	97.5	.39	.42	155	160
Nebraska	-	*	-	-	-	.35	-	159
Nevada	328	93	100.0	100.0	.44	.40	214	217
Tennessee	153	-	-	-	.50	-	116	-
Texas	1,210	1,299	72.4	72.4	.37	.35	207	208
Utah	1,149	1,152	100.0	100.0	.42	.46	205	208
Wisconsin	67	-	-	-	.38	-	152	-
Illinois	**31,753**	**41,694**	**77.8**	**87.6**	**2.22**	**2.33**	**151**	**157**
Alabama	633	549	90.8	93.5	1.75	1.68	125	123
Florida	4,458	4,068	63.1	75.9	2.21	2.36	178	197
Georgia	2,803	3,740	97.8	100.0	2.42	2.47	205	210
Illinois	9,819	11,760	85.2	93.7	2.63	2.65	137	141
Indiana	4,387	7,491	85.1	84.4	1.88	2.39	149	155
Iowa	318	1,138	78.6	100.0	2.02	2.29	139	171
Kansas	243	681	28.1	23.8	2.41	2.22	178	146
Kentucky	346	-	2.1	-	2.22	-	117	-
Minnesota	29	36	33.9	56.3	1.34	1.72	172	154
Mississippi	824	978	91.3	83.8	2.14	2.16	134	132
Missouri	4,096	8,445	94.1	91.5	2.01	2.11	159	153
Tennessee	3,444	2,003	44.1	83.0	1.89	1.74	122	123
Wisconsin	351	807	.9	37.9	.97	1.24	129	144
Indiana	**17,272**	**19,050**	**64.2**	**67.4**	**2.23**	**2.19**	**122**	**125**
Alabama	10	-	-	-	3.12	-	102	-
Florida	45	-	-	-	3.12	-	159	-
Georgia	153	369	100.0	100.0	2.25	2.24	137	138
Illinois	731	655	58.5	64.2	1.57	1.57	136	137
Indiana	14,141	14,581	63.7	66.0	2.23	2.20	120	121
Iowa	206	395	78.2	91.8	2.10	2.26	138	128
Kentucky	906	1,604	37.6	57.4	2.41	2.48	101	100
Michigan	142	132	50.7	45.6	2.36	2.30	159	151
Minnesota	-	*	-	100.0	-	1.11	-	90
Missouri	527	-	96.4	-	2.82	-	122	-
Ohio	-	135	-	-	-	3.03	-	90
Wisconsin	411	1,177	99.8	92.7	1.97	1.84	193	194
Iowa	**15**	**55**	**100.0**	**100.0**	**3.04**	**4.71**	**174**	**171**
Iowa	15	55	100.0	100.0	3.04	4.71	174	171
Kansas	**225**	**227**	**100.0**	**60.3**	**2.92**	**2.67**	**129**	**129**
Kansas	64	68	100.0	100.0	2.58	2.53	120	121
Missouri	161	158	100.0	43.2	3.06	3.03	133	132
Kentucky	**68,740**	**66,983**	**76.0**	**80.5**	**1.37**	**1.43**	**147**	**148**
Alabama	3,832	2,686	44.2	88.0	1.49	2.22	126	118
Connecticut	573	617	100.0	87.0	.41	.42	170	202
Florida	9,370	11,148	86.9	77.3	1.12	1.16	181	178
Georgia	9,731	8,463	76.3	89.3	1.02	1.21	164	166
Illinois	987	881	69.9	74.1	.63	.51	161	168
Indiana	2,841	3,413	88.3	78.4	2.50	2.23	117	120
Iowa	-	13	-	-	-	2.81	-	105
Kentucky	20,522	19,037	76.5	82.7	2.29	2.26	114	116
Maryland	693	196	66.1	83.7	.60	.57	159	155
Massachusetts	119	10	-	-	.54	.49	175	171
Michigan	4,669	4,877	73.7	85.2	.72	.74	170	172
Minnesota	1	-	-	-	1.64	-	165	-
Mississippi	1,343	1,440	84.7	86.9	.68	.87	183	178

See footnotes at end of table.

Table 37. Origin of Coal Received at Electric Utility Plants by Destination, January-September 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								
Missouri	100	570	95.7	94.4	1.77	2.88	156	125
New Jersey	76	91	100.0	90.6	.63	.61	186	180
New York	243	287	96.3	70.0	.41	.43	207	207
North Carolina	7,545	6,837	77.3	78.2	.81	.75	172	178
Ohio	5,596	6,084	73.2	67.2	.84	.98	153	143
Pennsylvania	4	-	100.0	-	2.30	-	169	-
South Carolina	6,389	6,162	76.8	52.3	.90	.86	157	151
Tennessee	11,334	11,463	76.0	97.8	1.61	1.77	127	128
Virginia	2,299	1,941	61.9	66.2	.82	.85	145	150
West Virginia	398	383	95.0	93.8	.73	.71	183	181
Wisconsin	74	384	-	-	.67	.97	174	144
Louisiana	**2,360**	**2,434**	**99.0**	**100.0**	**.95**	**.90**	**139**	**137**
Louisiana	2,360	2,434	99.0	100.0	.95	.90	139	137
Maryland	**2,141**	**2,373**	**74.7**	**67.3**	**1.32**	**1.35**	**141**	**136**
Maryland	785	776	68.9	64.1	1.21	1.25	169	169
Massachusetts	10	-	-	-	1.00	-	166	-
New York	-	14	-	-	-	1.40	-	142
West Virginia	1,345	1,583	78.7	69.4	1.39	1.40	125	120
Missouri	**250**	**2,059**	**69.6**	**95.7**	**4.03**	**3.99**	**239**	**152**
Kansas	47	48	-	-	4.55	3.04	107	118
Missouri	203	2,011	85.7	98.0	3.91	4.02	271	153
Montana	**24,777**	**27,295**	**92.6**	**90.9**	**.58**	**.58**	**135**	**134**
Illinois	2,382	2,093	98.8	100.0	.41	.37	261	285
Indiana	356	429	100.0	100.0	.41	.37	254	278
Michigan	7,690	7,623	98.4	100.0	.42	.40	153	153
Minnesota	5,683	5,904	95.4	96.9	.68	.68	118	124
Mississippi	178	82	-	-	.42	.32	159	136
Montana	6,379	7,890	100.0	100.0	.77	.77	67	71
Oregon	355	1,357	-	-	.43	.41	113	110
Washington	486	447	-	-	.44	.44	126	123
Wisconsin	1,269	1,470	68.8	72.5	.71	.75	143	154
New Mexico	**19,822**	**17,490**	**85.7**	**92.1**	**.70**	**.74**	**148**	**145**
Arizona	8,056	6,608	65.1	79.1	.50	.52	156	164
New Mexico	10,727	10,748	100.0	100.0	.90	.89	141	132
Wisconsin	1,039	135	98.6	100.0	.39	.44	154	150
North Dakota	**18,958**	**18,633**	**96.1**	**98.4**	**1.14**	**1.40**	**75**	**75**
North Dakota	17,419	17,148	95.8	98.3	1.11	1.39	73	72
South Dakota	1,539	1,485	100.0	100.0	1.47	1.49	109	116
Ohio	**20,738**	**22,057**	**75.4**	**78.6**	**2.80**	**2.88**	**140**	**141**
Alabama	59	-	-	-	3.34	-	120	-
Indiana	134	18	-	-	2.91	2.48	129	128
Iowa	31	-	-	-	2.28	-	206	-
Kentucky	404	91	70.4	98.1	2.00	2.27	166	182
Michigan	156	33	100.0	100.0	2.66	2.84	204	223
Minnesota	1	-	-	-	1.10	-	99	-
New York	8	-	-	-	1.78	-	162	-
Ohio	18,326	20,531	77.8	82.5	2.82	2.87	139	143
Pennsylvania	988	334	95.7	80.5	2.57	2.79	167	155
Tennessee	45	-	13.9	-	2.42	-	131	-
West Virginia	586	1,051	-	-	3.20	3.22	88	92
Oklahoma	**38**	**229**	**92.0**	**75.5**	**2.68**	**2.21**	**106**	**117**
Nebraska	3	-	-	-	.37	-	38	-
Oklahoma	35	229	100.0	75.5	2.81	2.21	110	117
Pennsylvania	**33,725**	**37,498**	**60.4**	**66.4**	**1.52**	**1.47**	**138**	**147**
Alabama	52	-	-	-	1.89	-	120	-
Delaware	144	114	99.4	80.7	1.05	1.07	166	178
Indiana	129	-	-	-	1.94	-	129	-
Kentucky	250	23	-	-	1.92	1.94	106	101
Maryland	1,726	2,184	89.9	77.9	1.45	1.48	170	170
Massachusetts	253	269	100.0	71.2	1.15	1.02	166	169
Michigan	1,039	1,309	84.5	80.8	1.19	1.29	150	155
Minnesota	-	11	-	5.6	-	1.53	-	142
New Hampshire	496	492	98.2	100.0	1.23	1.17	167	171
New Jersey	8	-	-	-	1.97	-	152	-
New York	3,979	5,04[illegible]	51.5	53.6	1.33	1.34	137	143
Ohio	2,500	2,217	22.7	59.7	1.70	1.61	110	132
Pennsylvania	21,554	23,497	63.6	66.3	1.54	1.51	139	147
Tennessee	15	-	30.1	-	1.63	-	116	-

See footnotes at end of table.

Table 37. Origin of Coal Received at Electric Utility Plants by Destination, January-September 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
Pennsylvania								
West Virginia	1,178	960	29.6	39.1	2.22	2.08	106	111
Wisconsin	401	1,374	95.8	100.0	1.19	1.19	167	156
Tennessee	**1,569**	**2,118**	**77.5**	**95.8**	**1.10**	**1.12**	**137**	**132**
Alabama	336	622	94.0	100.0	.80	.65	127	130
Florida	225	196	100.0	100.0	.85	.92	205	216
Georgia	15	-	-	-	1.18	-	171	-
Kentucky	196	438	-	94.1	2.00	2.04	111	113
North Carolina	1	23	-	-	.90	1.06	148	150
Tennessee	796	838	84.9	95.3	1.07	1.04	127	123
Texas	**39,547**	**39,107**	**100.0**	**99.5**	**1.66**	**1.69**	**116**	**116**
Texas	39,547	39,107	100.0	99.5	1.66	1.69	116	116
Utah	**11,014**	**10,071**	**83.6**	**88.9**	**.40**	**.40**	**119**	**125**
Florida	187	32	-	-	.31	.34	152	164
Illinois	136	197	-	-	.35	.37	132	119
Indiana	55	-	-	-	.30	-	177	-
Missouri	167	79	45.6	-	.42	.35	136	141
Nevada	1,020	1,452	100.0	100.0	.38	.38	177	187
Utah	9,448	8,311	85.9	90.2	.41	.40	111	113
Virginia	**12,298**	**12,354**	**88.7**	**90.2**	**.82**	**.86**	**163**	**164**
Delaware	148	29	100.0	100.0	.65	.65	204	198
Florida	650	632	98.5	100.0	.58	.58	213	228
Georgia	2,214	1,976	87.3	96.3	1.01	1.06	182	181
Indiana	92	112	-	-	.54	.53	166	160
Maryland	7	78	-	-	.56	.57	161	170
Massachusetts	-	522	-	99.5	-	.82	-	176
Michigan	20	-	50.0	-	.77	-	181	-
New Jersey	566	651	97.6	98.3	.56	.59	179	177
North Carolina	3,479	3,368	96.1	95.6	.82	.86	169	173
Ohio	40	-	-	-	.53	-	155	-
South Carolina	763	610	89.1	100.0	.89	1.05	152	154
Tennessee	1,068	1,062	85.7	99.7	1.06	1.21	123	128
Virginia	3,157	3,264	85.0	77.7	.72	.74	144	141
Wisconsin	93	50	-	-	.53	.48	169	155
Washington	**3,339**	**3,780**	**98.6**	**99.8**	**.93**	**.89**	**139**	**137**
Washington	3,339	3,780	98.6	99.8	.93	.89	139	137
West Virginia	**57,918**	**62,362**	**74.7**	**82.0**	**1.15**	**1.30**	**153**	**158**
Alabama	2,032	2,125	86.8	98.9	.74	.83	145	142
Connecticut	75	-	100.0	-	.50	-	169	-
Delaware	1,187	977	97.6	100.0	.69	.75	166	172
Florida	1,124	1,003	73.1	97.7	1.20	1.11	171	202
Georgia	2,505	1,348	52.7	81.1	.55	.56	205	239
Illinois	219	400	52.2	69.6	.55	.57	163	152
Indiana	418	1,356	30.9	2.9	.53	.57	155	139
Kentucky	3,365	1,917	55.5	75.2	.77	.71	124	126
Maryland	3,072	3,700	71.8	79.8	.87	.79	149	152
Massachusetts	1,926	2,176	87.7	94.4	.85	.92	167	168
Michigan	3,424	4,358	70.4	71.3	.66	.67	156	163
Minnesota	6	-	93.3	-	.58	-	161	-
Mississippi	16	-	-	-	.96	-	146	-
New Hampshire	367	364	88.2	78.7	1.51	1.37	158	165
New Jersey	728	808	90.8	99.0	1.27	1.38	173	170
New York	1,254	2,329	61.9	65.9	.97	1.20	167	158
North Carolina	4,485	4,303	65.3	74.0	.67	.63	168	170
Ohio	9,511	8,995	69.4	80.5	1.23	1.51	141	151
Pennsylvania	5,336	7,262	93.5	95.7	2.00	2.35	155	156
South Carolina	8	53	-	100.0	.76	.82	156	184
Tennessee	664	-	8.9	-	1.71	-	126	-
Virginia	1,139	1,421	81.8	60.4	.91	.86	159	154
West Virginia	14,786	17,298	83.5	87.5	1.45	1.57	148	154
Wisconsin	272	170	29.4	59.4	.56	.52	162	162
Wyoming	**146,345**	**135,626**	**82.5**	**84.0**	**.42**	**.43**	**125**	**128**
Arkansas	8,014	8,479	88.4	94.4	.37	.36	169	168
Colorado	4,087	3,919	100.0	100.0	.38	.39	104	103
Florida	-	12	-	-	-	.23	-	142
Illinois	4,783	3,110	99.5	94.2	.33	.46	237	248
Indiana	8,942	8,726	69.7	80.7	.39	.40	120	123
Iowa	11,235	10,283	66.4	70.3	.47	.44	96	103
Kansas	11,711	9,497	71.8	76.0	.40	.38	100	116

See footnotes at end of table.

Table 37. Origin of Coal Received at Electric Utility Plants by Destination, January-September 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								
Kentucky	291	-	-	-	0.59	-	124	-
Louisiana	7,244	7,315	100.0	100.0	.52	0.53	164	157
Michigan	3,155	2,500	77.5	49.7	.32	.33	108	111
Minnesota	5,582	4,901	73.7	93.9	.29	.30	115	122
Mississippi	-	59	-	-	-	.40	-	153
Missouri	8,139	6,743	96.4	65.4	.32	.34	93	92
Nebraska	6,337	5,876	79.8	69.2	.41	.42	77	76
Nevada	527	540	100.0	100.0	.48	.53	201	200
North Dakota	5	-	-	-	.74	-	71	-
Ohio	-	54	-	-	-	.41	-	121
Oklahoma	11,777	11,903	93.7	95.1	.43	.44	125	125
Oregon	949	-	-	-	.44	-	114	-
Tennessee	-	71	-	-	-	.58	-	132
Texas	27,215	25,846	89.0	90.3	.40	.41	168	178
Washington	-	2	-	-	-	.25	-	181
Wisconsin	9,162	7,793	56.5	68.6	.36	.39	101	110
Wyoming	17,189	17,997	87.7	85.8	.58	.59	81	75
Imported Coal	**2,657**	**1,304**	**52.6**	**74.5**	**.54**	**.60**	**150**	**157**
Canada	**23**	**48**	**-**	**-**	**.48**	**.87**	**180**	**185**
Massachusetts	-	33	-	-	-	1.03	-	175
Washington	23	15	-	-	.48	.42	180	215
Colombia	**2,019**	**1,081**	**53.8**	**77.6**	**.57**	**.60**	**145**	**153**
Florida	1,721	1,051	55.4	79.8	.58	.60	142	153
Maryland	77	-	-	-	.48	-	159	-
Massachusetts	108	-	74.2	-	.51	-	171	-
New Hampshire	52	30	100.0	-	.50	.52	150	156
Texas	61	-	-	-	.49	-	149	-
Venezuela	**537**	**175**	**58.2**	**75.7**	**.47**	**.52**	**165**	**170**
Florida	188	-	-	-	.44	-	179	-
Massachusetts	297	104	87.7	100.0	.48	.55	160	167
New Hampshire	52	28	100.0	100.0	.46	.44	139	172
Texas	-	42	-	-	-	.50	-	176
Indonesia	**79**	**-**	**-**	**-**	**.09**	**-**	**160**	**-**
Indiana	11	-	-	-	.14	-	105	-
Mississippi	68	-	-	-	.08	-	169	-
U.S. Total	**569,406**	**579,054**	**81.1**	**84.2**	**1.15**	**1.26**	**139**	**141**

* 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	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
By State						
Alabama	701	857	842	2,413	2,527	-4.5
Illinois	w	w	w	w	w	w
Indiana	1,527	1,883	1,753	5,201	5,510	-5.6
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	706	677	884	2,103	2,830	-25.7
Pennsylvania	2,597	2,517	2,329	7,533	7,025	7.2
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	970	1,108	1,043	3,160	3,222	-1.9
Furnace Coke Plants	6,455	6,959	6,548	20,283	20,695	-2.0
U.S. Total	**7,426**	**8,067**	**7,592**	**23,444**	**23,917**	**-2.0**

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

Average Price [1]	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
By State						
Alabama	$47.07	$47.39	$47.60	$47.49	$47.99	-1.0
Illinois	w	w	w	w	w	w
Indiana	$52.00	$50.84	$53.14	$52.65	$53.80	-1.8
Kentucky	w	w	w	w	w	w
Maryland	w	w	w	w	w	w
Michigan	w	w	w	w	w	w
New York	w	w	w	w	w	w
Ohio	$43.92	$45.60	$47.20	$45.47	$46.25	-1.7
Pennsylvania	46.06	47.03	46.54	46.55	46.16	.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	$46.92	$47.29	$46.46	$47.13	$46.94	.4
Furnace Coke Plants	47.09	47.43	48.32	47.76	48.22	-1.0
U.S. Total	**47.07**	**47.41**	**48.06**	**47.67**	**48.05**	**-.8**

[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	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
New England Total	**139**	**201**	**224**	**488**	**827**	**-41.0**
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	456	355	437	1,171	1,222	-4.2
Pennsylvania	1,392	1,379	1,057	3,934	2,977	32.2
East North Central Total	**4,749**	**4,458**	**4,248**	**13,498**	**12,170**	**10.9**
Illinois	1,097	1,047	915	3,276	2,613	25.4
Indiana	1,162	1,219	1,015	3,548	3,090	14.8
Michigan	1,008	792	915	2,277	2,115	7.6
Ohio	1,026	962	906	3,074	3,002	2.4
Wisconsin	455	438	497	1,323	1,350	-2.0
West North Central Total	**2,784**	**2,963**	**3,261**	**8,785**	**8,878**	**-1.0**
Iowa	494	661	839	1,606	1,887	-14.9
Kansas	37	35	45	103	92	11.1
Minnesota	337	213	288	842	671	25.4
Missouri	209	319	289	776	822	-5.6
Nebraska	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic Total	**w**	**w**	**w**	**w**	**w**	**w**
Delaware	w	w	w	w	w	w
District of Columbia	-	-	-	-	-	-
Florida	320	335	322	957	943	1.4
Georgia	347	416	441	1,250	1,338	-6.6
Maryland	189	190	174	549	519	5.8
North Carolina	522	576	773	1,753	2,212	-20.8
South Carolina	512	576	547	1,712	1,542	11.0
Virginia	615	677	828	2,093	2,891	-27.6
West Virginia	630	665	507	1,767	1,758	.5
East South Central Total	**w**	**w**	**w**	**w**	**w**	**w**
Alabama	524	684	839	1,830	2,298	-20.3
Kentucky	550	648	428	1,843	1,186	55.4
Mississippi	w	w	w	w	w	w
Tennessee	870	969	872	2,757	2,739	.6
West South Central Total	**2,063**	**1,704**	**1,420**	**5,421**	**4,248**	**27.6**
Arkansas	72	86	78	237	220	7.9
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	1,426	1,214	1,004	3,828	3,120	22.7
Mountain Total	**1,273**	**1,075**	**1,251**	**3,580**	**3,702**	**-3.3**
Arizona	169	137	181	470	476	-1.3
Colorado	215	138	153	527	520	1.4
Idaho	138	96	135	343	376	-8.9
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	183	209	170	562	418	34.4
Wyoming	433	411	492	1,316	1,585	-16.9
Pacific Total	**738**	**666**	**747**	**1,878**	**2,343**	**-19.8**
Alaska	-	2	-	2	-	-
California	623	621	694	1,655	2,111	-21.6
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	40	37	30	112	112	.3
U.S. Total	**18,851**	**18,897**	**18,503**	**55,793**	**54,278**	**2.8**

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	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
New England Total	**$55.06**	**$58.14**	**$62.92**	**$58.19**	**$65.51**	**-11.2**
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	$45.20	$40.96	$44.47	$41.63	$44.31	-6.1
Pennsylvania	32.68	33.96	34.76	34.39	35.79	-3.9
East North Central Total	**33.60**	**34.00**	**34.17**	**34.17**	**34.86**	**-2.0**
Illinois	29.56	29.12	29.69	28.93	29.59	-2.2
Indiana	29.98	30.18	29.74	30.61	31.58	-3.1
Michigan	39.23	41.02	40.13	41.17	41.54	-.9
Ohio	33.74	34.05	34.01	34.51	34.93	-1.2
Wisconsin	39.30	41.02	40.91	40.95	42.00	-2.5
West North Central Total	**17.06**	**16.58**	**16.66**	**17.43**	**17.56**	**-.7**
Iowa	29.48	28.26	28.19	27.77	27.38	1.4
Kansas	31.69	34.30	31.19	33.65	31.88	5.6
Minnesota	36.60	36.56	36.25	35.32	35.44	-.3
Missouri	31.43	29.99	30.79	31.65	31.74	-.3
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	$48.32	$48.63	$48.29	$48.89	$48.09	1.7
Georgia	45.19	45.15	45.48	45.12	45.16	-.1
Maryland	32.36	31.76	32.33	31.93	32.44	-1.6
North Carolina	43.57	42.83	42.47	43.16	43.22	-.1
South Carolina	42.16	43.90	43.08	43.57	43.35	.5
Virginia	40.32	40.86	41.53	40.91	41.03	-.3
West Virginia	32.35	32.69	32.95	32.21	32.27	-.2
East South Central Total	**W**	**W**	**W**	**W**	**W**	**W**
Alabama	$38.58	$38.38	$39.50	$39.23	$39.57	-.9
Kentucky	40.72	43.39	43.90	42.76	43.95	-2.7
Mississippi	W	W	W	W	W	W
Tennessee	$35.02	$35.02	$35.37	$35.29	$35.41	-.4
West South Central Total	**19.51**	**23.02**	**22.80**	**21.68**	**21.56**	**.6**
Arkansas	44.77	43.70	42.85	43.79	44.14	-.8
Louisiana	W	W	W	W	W	W
Oklahoma	W	W	W	W	W	W
Texas	$15.90	$19.14	$18.25	$17.96	$16.97	5.8
Mountain Total	**28.73**	**29.59**	**28.81**	**28.97**	**28.66**	**1.1**
Arizona	40.37	40.87	40.38	40.65	40.88	-.6
Colorado	28.64	28.94	30.44	28.18	30.51	-7.6
Idaho	33.42	32.48	32.81	32.80	33.49	-2.1
Montana	W	W	W	W	W	W
Nevada	W	W	W	W	W	W
New Mexico	W	W	W	W	W	W
Utah	$24.22	$26.47	$25.20	$25.80	$25.46	1.3
Wyoming	23.11	24.76	23.59	23.91	23.55	1.5
Pacific Total	**45.02**	**44.24**	**43.12**	**43.50**	**44.06**	**-1.3**
Alaska	-	-	-	-	-	-
California	43.73	43.92	41.73	42.56	42.57	*
Hawaii	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Washington	$47.05	$47.87	$56.69	$50.80	$56.73	-10.5
U.S. Total	**31.55**	**32.16**	**32.36**	**32.21**	**32.61**	**-1.2**

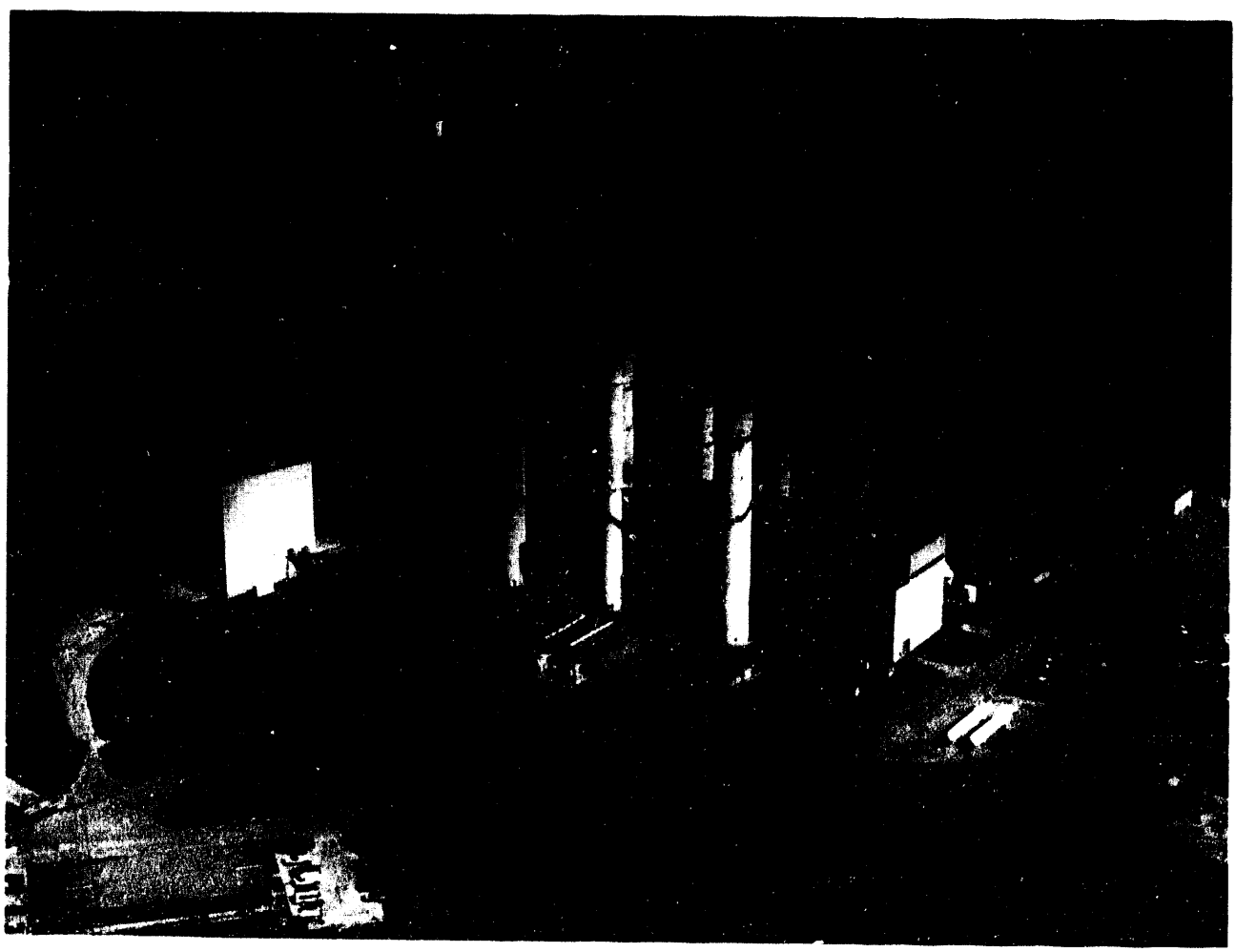
* Rounded to zero.

W Withheld to avoid disclosure of individual company data.

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

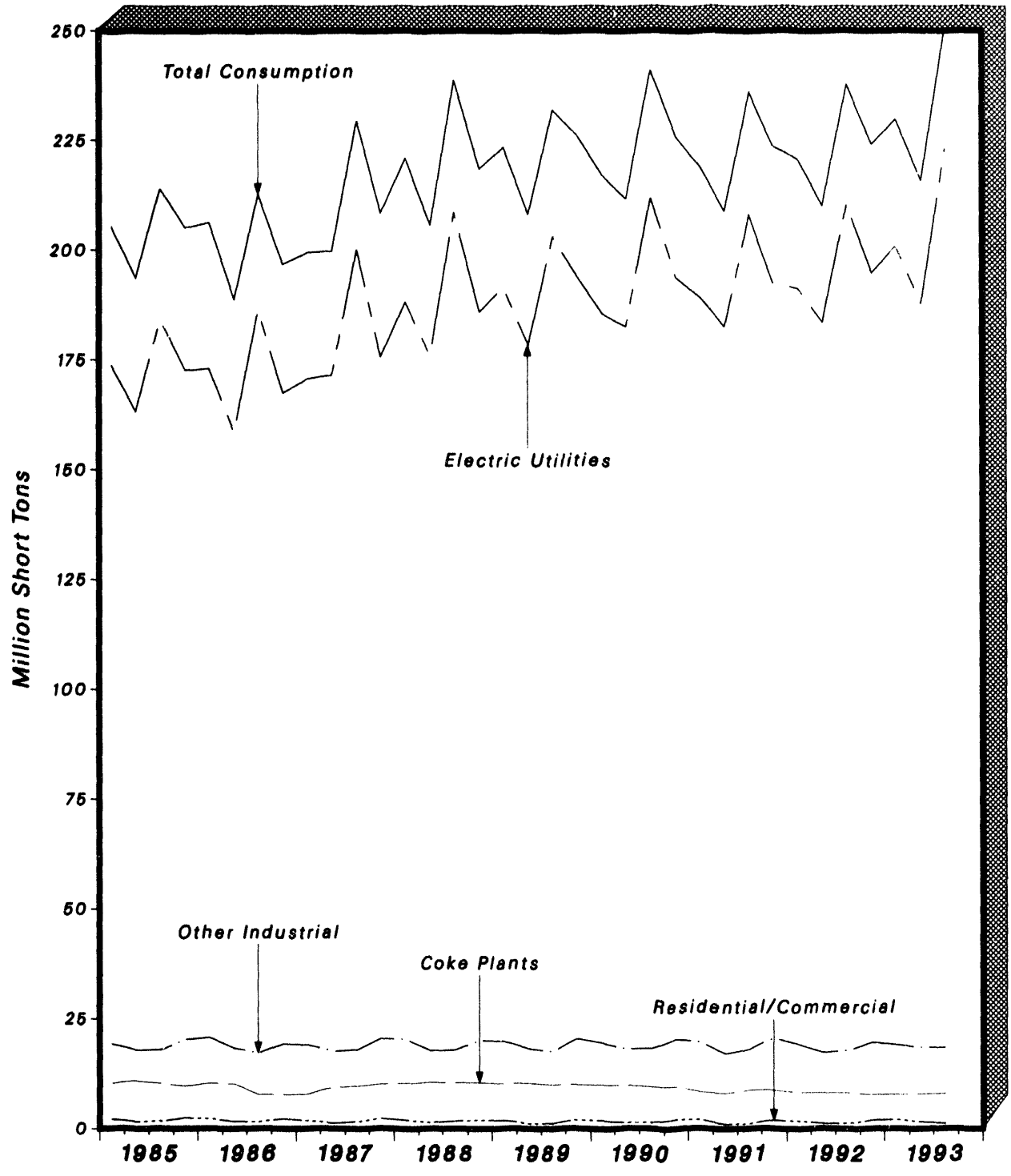
Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption-Manufacturing Plants".

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	163,132	10,913	17,894	1,589	193,529
July - September	184,108	10,218	17,938	1,673	213,937
October - December	172,682	9,670	20,305	2,443	205,099
Total	**693,841**	**41,056**	**75,372**	**7,779**	**818,049**
1986 January - March	172,982	10,305	20,715	2,231	206,233
April - June	158,426	10,206	18,366	1,675	188,673
July - September	186,266	7,704	17,199	1,503	212,671
October - December	167,382	7,709	19,303	2,259	196,654
Total	**685,056**	**35,924**	**75,583**	**7,667**	**804,231**
1987 January - March	170,777	7,831	19,106	1,809	199,523
April - June	171,418	9,344	17,610	1,254	199,627
July - September	200,070	9,707	18,006	1,613	229,397
October - December	175,629	10,075	20,453	2,238	208,394
Total	**717,894**	**36,957**	**75,175**	**6,914**	**836,941**
1988 January - March	188,009	10,357	20,416	2,004	220,787
April - June	176,007	10,536	17,786	1,406	205,735
July - September	208,542	10,483	17,923	1,725	238 672
October - December	185,814	10,512	20,127	1,994	218,448
Total	**758,372**	**41,888**	**76,252**	**7,130**	**883,642**
1989 January - March	191,556	10,208	19,885	1,837	223,486
April - June	178,306	10,365	18,211	1,143	208,025
July - September	203,123	10,008	17,631	1,264	232,026
October - December	193,903	9,927	20,408	1,924	226,163
Total	**766,888**	**40,508**	**76,134**	**6,167**	**889,699**
1990 January - March	185,438	10,044	19,612	1,920	217,014
April - June	182,537	9,795	18,069	1,265	211,696
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
July - September	223,144	7,960	18,430	1,178	250,712
Total	**611,686**	**23,629**	**56,071**	**4,823**	**696,209**

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	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
New England Total	**1,759**	**1,287**	**1,778**	**4,896**	**5,430**	**-9.8**
Connecticut	270	218	179	732	640	14.4
Maine	92	137	190	298	650	-54.2
Massachusetts	1,001	696	1,054	2,802	3,157	-11.2
New Hampshire	393	236	347	1,058	966	9.5
Rhode Island	1	*	1	2	3	-27.2
Vermont	2	*	6	4	16	-72.9
Middle Atlantic Total	**18,627**	**16,403**	**17,836**	**53,667**	**54,025**	**-.7**
New Jersey	495	530	406	1,802	1,614	11.7
New York	3,068	2,608	3,276	8,856	9,957	-11.1
Pennsylvania	15,064	13,265	14,154	43,009	42,454	1.3
East North Central Total	**56,241**	**48,915**	**50,961**	**158,535**	**150,198**	**5.6**
Illinois	10,284	8,135	7,224	27,641	23,799	16.1
Indiana	16,271	14,219	15,121	46,448	43,751	6.2
Michigan	8,608	7,914	8,252	24,135	23,394	3.2
Ohio	15,700	13,802	15,438	44,685	44,475	.5
Wisconsin	5,378	4,845	4,927	15,627	14,780	5.7
West North Central Total	**30,626**	**28,207**	**29,593**	**89,548**	**85,466**	**4.8**
Iowa	4,944	4,855	4,711	14,817	13,680	8.3
Kansas	4,655	4,341	3,730	12,895	10,632	21.3
Minnesota	4,625	3,534	4,087	12,837	12,166	5.5
Missouri	6,150	5,869	7,014	17,848	18,685	-4.5
Nebraska	2,293	2,193	2,124	7,058	6,232	13.2
North Dakota	7,356	6,704	7,353	22,134	22,199	-.3
South Dakota	603	710	574	1,958	1,872	4.6
South Atlantic Total	**42,483**	**35,633**	**41,170**	**114,014**	**109,541**	**4.1**
Delaware	736	547	551	1,847	1,392	32.7
District of Columbia	1	17	6	44	38	17.5
Florida	7,563	6,386	7,776	20,383	20,107	1.4
Georgia	8,283	6,820	7,834	20,888	19,433	7.5
Maryland	2,726	2,466	2,685	7,639	7,368	3.7
North Carolina	7,872	5,755	7,849	19,571	18,455	6.1
South Carolina	3,771	3,195	3,424	9,897	8,699	13.8
Virginia	3,560	2,793	3,388	10,247	10,394	-1.4
West Virginia	7,969	7,654	7,659	23,498	23,656	-.7
East South Central Total	**29,146**	**25,379**	**25,818**	**78,909**	**71,041**	**10.9**
Alabama	9,826	8,050	9,156	24,690	23,733	4.0
Kentucky	10,497	8,980	9,188	29,245	25,704	13.8
Mississippi	1,373	1,089	1,117	3,238	2,864	13.0
Tennessee	7,450	7,260	6,357	21,636	18,740	15.5
West South Central Total	**39,231**	**34,653**	**38,017**	**107,595**	**101,213**	**6.3**
Arkansas	3,585	3,070	3,280	9,398	9,000	4.4
Louisiana	3,717	3,504	3,829	10,491	10,263	2.2
Oklahoma	5,406	4,180	4,946	14,121	12,739	10.9
Texas	26,522	23,899	25,962	73,586	69,212	6.3
Mountain Total	**29,770**	**23,316**	**29,384**	**81,260**	**82,538**	**-1.5**
Arizona	5,286	4,358	4,935	13,959	13,069	6.8
Colorado	4,334	3,852	4,207	12,562	12,471	.7
Idaho	61	46	64	290	318	-8.7
Montana	2,771	962	2,997	6,497	7,994	-18.7
Nevada	2,137	1,369	2,182	5,952	6,181	-3.7
New Mexico	4,114	3,389	4,026	10,963	10,851	1.0
Utah	4,261	3,649	4,043	11,881	11,576	2.6
Wyoming	6,756	5,691	6,929	19,156	20,078	-4.6
Pacific Total	**2,828**	**2,010**	**3,142**	**7,886**	**8,876**	**-11.2**
Alaska	178	208	159	629	554	13.5
California	684	683	709	1,778	2,128	-16.5
Hawaii	22	20	17	50	33	52.2
Oregon	516	262	545	1,383	1,497	-7.6
Washington	1,428	837	1,713	4,046	4,665	-13.3
U.S. Total	**250,712**	**215,802**	**237,698**	**696,209**	**668,329**	**4.2**

* 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-6, "Coal Distribution Report."

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

Census Division and State	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
New England Total	**1,605**	**1,061**	**1,512**	**4,341**	**4,513**	**-3.8**
Connecticut	268	187	176	693	621	11.6
Maine	-	-	-	-	-	-
Massachusetts	962	639	1,008	2,673	2,981	-10.3
New Hampshire	376	235	327	974	911	6.9
Rhode Island	-	-	-	-	-	-
Vermont	-	-	-	-	-	-
Middle Atlantic Total	**13,474**	**11,427**	**13,189**	**38,691**	**40,155**	**-3.6**
New Jersey	446	474	362	1,615	1,437	12.4
New York	2,251	1,816	2,542	6,470	7,647	-15.4
Pennsylvania	10,777	9,137	10,285	30,607	31,071	-1.5
East North Central Total	**48,513**	**41,114**	**43,356**	**134,642**	**126,296**	**6.6**
Illinois	8,557	6,478	5,672	22,494	19,166	17.4
Indiana	13,293	11,119	12,235	37,174	34,557	7.6
Michigan	7,765	7,065	7,474	21,502	21,003	2.4
Ohio	13,923	12,057	13,484	39,200	38,180	2.7
Wisconsin	4,974	4,396	4,493	14,272	13,389	6.6
West North Central Total	**27,724**	**25,163**	**26,543**	**80,132**	**76,159**	**5.2**
Iowa	4,447	4,187	4,052	12,958	11,723	10.5
Kansas	4,618	4,304	3,689	12,773	10,542	21.2
Minnesota	4,258	3,311	3,821	11,933	11,468	4.0
Missouri	5,829	5,469	6,708	16,774	17,668	-5.1
Nebraska	2,230	2,140	2,068	6,852	6,046	13.3
North Dakota	5,837	5,113	5,706	17,127	17,018	.6
South Dakota	505	639	500	1,715	1,694	1.3
South Atlantic Total	**38,310**	**31,338**	**36,768**	**100,969**	**95,930**	**5.3**
Delaware	650	491	527	1,667	1,283	29.9
District of Columbia	-	-	-	-	-	-
Florida	7,244	6,077	7,420	19,430	19,152	1.5
Georgia	7,886	6,404	7,378	19,586	18,058	8.5
Maryland	2,539	2,279	2,503	7,092	6,835	3.7
North Carolina	7,277	5,141	7,046	17,636	16,140	9.3
South Carolina	3,152	2,608	2,902	8,077	7,102	13.7
Virginia	2,650	1,810	2,262	7,159	6,676	7.2
West Virginia	6,912	6,530	6,730	20,321	20,683	-1.7
East South Central Total	**25,884**	**21,706**	**22,382**	**68,244**	**61,080**	**11.7**
Alabama	8,444	6,542	7,449	20,408	18,883	8.1
Kentucky	9,599	7,977	8,426	26,327	23,553	11.8
Mississippi	1,303	1,019	1,047	3,031	2,690	12.7
Tennessee	6,538	6,170	5,460	18,477	15,953	15.8
West South Central Total	**37,501**	**32,941**	**36,514**	**102,676**	**96,995**	**5.9**
Arkansas	3,507	2,986	3,206	9,157	8,782	4.3
Louisiana	3,615	3,350	3,701	10,090	9,846	2.5
Oklahoma	5,032	3,893	4,748	13,220	12,232	8.1
Texas	25,347	22,713	24,859	70,209	66,135	6.2
Mountain Total	**28,171**	**21,941**	**27,877**	**76,597**	**77,828**	**-1.6**
Arizona	5,102	4,200	4,759	13,464	12,594	6.9
Colorado	4,076	3,702	4,005	11,910	11,914	*
Idaho	-	-	-	-	-	-
Montana	2,707	926	2,947	6,302	7,827	-19.5
Nevada	2,082	1,323	2,136	5,800	6,044	-4.0
New Mexico	4,095	3,373	4,013	10,914	10,810	1.0
Utah	3,806	3,163	3,576	10,478	10,168	3.1
Wyoming	6,302	5,255	6,441	17,728	18,470	-4.0
Pacific Total	**1,961**	**1,084**	**2,277**	**5,394**	**6,121**	**-11.9**
Alaska	71	65	63	219	196	11.4
California	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Oregon	513	256	543	1,338	1,446	-7.4
Washington	1,377	763	1,670	3,837	4,478	-14.3
U.S. Total	**223,144**	**187,778**	**210,419**	**611,686**	**585,077**	**4.5**

* Rounded to zero.
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	July - September 1993	April - June 1993	July - September 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	2,713	2,472	2,519	7,627	7,251	5.2
East North Central Total	**2,886**	**3,037**	**3,352**	**8,978**	**10,433**	**-13.9**
Illinois	W	W	W	W	W	W
Indiana	1,664	1,769	1,822	5,207	5,809	-10.4
Michigan	W	W	W	W	W	W
Ohio	684	704	966	2,098	2,891	-27.4
Wisconsin	-	-	-	-	-	-
West North Central Total	-	-	-	-	-	-
Iowa	-	-	-	-	-	-
Kansas	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-
Missouri	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-
South Atlantic Total	W	W	W	W	W	W
Delaware	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-
Florida	-	-	-	-	-	-
Georgia	-	-	-	-	-	-
Maryland	W	W	W	W	W	W
North Carolina	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-
Virginia	W	W	W	W	W	W
West Virginia	W	W	W	W	W	W
East South Central Total	W	W	W	W	W	W
Alabama	808	816	824	2,412	2,489	-3.1
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	1,059	1,089	1,080	3,207	3,244	-1.1
Furnace Coke Plants	6,902	6,796	7,121	20,422	21,393	-4.5
U.S. Total	**7,960**	**7,886**	**8,200**	**23,629**	**24,637**	**-4.1**

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	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
New England Total	**130**	**200**	**222**	**481**	**817**	**-41.1**
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	431	397	382	1,277	1,210	5.5
Pennsylvania	1,400	1,354	1,025	3,898	2,937	32.7
East North Central Total	**4,595**	**4,416**	**3,928**	**13,845**	**12,449**	**11.2**
Illinois	1,138	1,047	904	3,284	2,696	21.8
Indiana	1,265	1,224	999	3,728	3,128	19.2
Michigan	781	768	701	2,449	2,227	10.0
Ohio	1,009	961	889	3,065	3,009	1.9
Wisconsin	402	415	434	1,319	1,389	-5.1
West North Central Total	**2,781**	**2,932**	**2,964**	**9,013**	**8,984**	**.3**
Iowa	485	633	639	1,802	1,893	-4.8
Kansas	36	37	41	103	90	14.6
Minnesota	328	222	266	862	678	27.2
Missouri	262	335	254	877	850	3.2
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	320	309	356	952	953	-.1
Georgia	392	410	443	1,283	1,344	-4.5
Maryland	186	185	178	542	522	3.8
North Carolina	540	570	768	1,764	2,215	-20.4
South Carolina	590	568	515	1,735	1,583	9.6
Virginia	619	663	840	2,153	2,857	-24.6
West Virginia	635	626	492	1,741	1,737	.2
East South Central Total	**W**	**W**	**W**	**W**	**W**	**W**
Alabama	563	687	864	1,830	2,301	-20.5
Kentucky	555	659	431	1,870	1,185	57.7
Mississippi	W	W	W	W	W	W
Tennessee	883	909	870	2,773	2,709	2.4
West South Central Total	**1,727**	**1,711**	**W**	**4,912**	**4,209**	**16.7**
Arkansas	78	84	74	241	216	11.1
Louisiana	W	W	W	W	W	W
Oklahoma	W	W	W	W	W	W
Texas	1,173	1,186	1,102	3,371	3,071	9.8
Mountain Total	**1,204**	**1,075**	**1,176**	**3,558**	**3,591**	**-.9**
Arizona	183	159	175	493	473	4.3
Colorado	217	143	192	546	522	4.5
Idaho	56	44	54	268	288	-7.0
Montana	W	W	W	W	W	W
Nevada	W	W	W	W	W	W
New Mexico	W	W	W	W	W	W
Utah	186	213	165	555	429	29.5
Wyoming	425	420	482	1,315	1,557	-15.5
Pacific Total	**691**	**707**	**758**	**1,905**	**2,336**	**-18.4**
Alaska	-	W	-	W	-	-
California	634	641	709	1,686	2,128	-20.8
Hawaii	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Washington	33	38	31	124	124	-.6
U.S. Total	**18,430**	**18,545**	**17,843**	**56,071**	**54,387**	**3.1**

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 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		July - September 1993	April - June 1993	July - September 1992	Year to Date		
					1993	1992	Percent Change
20	Food and kindred products	1,491	1,568	1,693	5,323	5,492	-3.1
21	Tobacco products	154	156	156	494	504	-2.0
22	Textile mill products	258	313	252	942	878	7.3
23	Apparel, other textile products	w	w	w	w	w	w
24	Lumber and wood products	23	29	24	79	79	-.1
25	Furniture and fixtures	16	18	16	68	70	-3.1
26	Paper and allied products	2,946	2,918	2,819	9,166	8,820	3.9
27	Printing and publishing	w	w	w	w	w	w
28	Chemicals, allied products	3,044	3,079	2,958	9,693	9,827	-1.4
29	Petroleum and coal products[1]	1,695	1,832	1,855	5,286	5,642	-6.3
30	Rubber, misc. plastic products	56	67	59	201	203	-.8
31	Leather, leather products	w	w	w	w	w	w
32	Stone, clay, glass products	3,329	3,170	3,162	9,234	8,819	4.7
33	Primary metal industries[2]	1,700	1,833	1,785	5,155	5,258	-2.0
34	Fabricated metal products	33	59	46	204	262	-22.2
35	Machinery, except electric	48	84	39	312	236	32.2
36	Electric, electronic equipment	29	59	26	187	159	17.2
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		**15,268**	**15,705**	**15,324**	**48,179**	**47,974**	**.4**

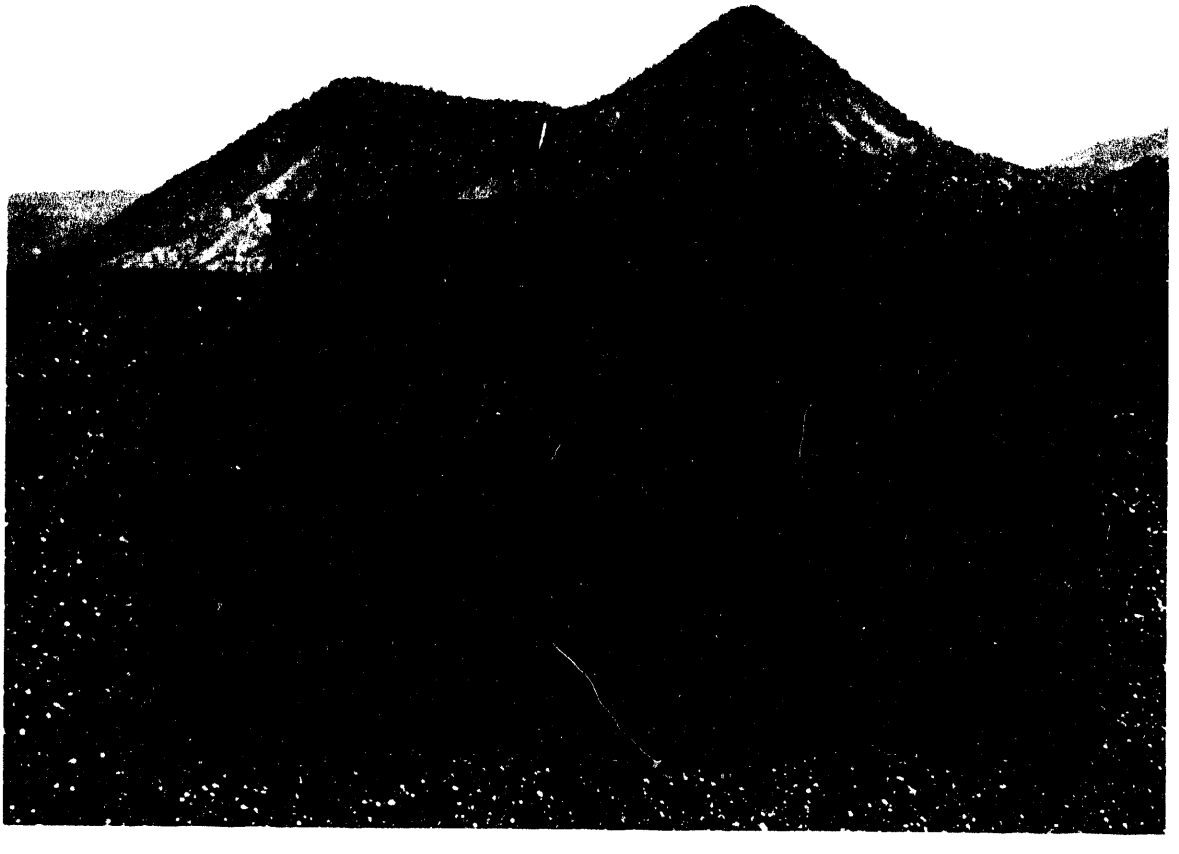
[1] Includes coal gasification projects.
[2] Excludes coke plants.
w Withheld to avoid disclosure of individual company data.
Note: Total may not equal sum of components because of independent rounding.
Source: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

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

Census Division and State	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
New England Total	**24**	**26**	**44**	**73**	**100**	**-26.8**
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	**234**	**371**	**407**	**1,074**	**1,422**	**-24.5**
New Jersey	w	w	w	w	w	w
New York	w	w	w	w	w	w
Pennsylvania	175	302	324	877	1,195	-26.6
East North Central Total	**247**	**347**	**325**	**1,070**	**1,019**	**5.0**
Illinois	w	w	w	w	w	w
Indiana	49	108	64	339	256	32.3
Michigan	w	w	w	w	w	w
Ohio	84	80	99	322	395	-18.5
Wisconsin	w	w	w	w	w	w
West North Central Total	**w**	**w**	**w**	**w**	**w**	**w**
Iowa	11	35	20	57	64	-10.1
Kansas	1	*	*	19	*	NM
Minnesota	39	1	*	43	20	116.9
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	**162**	**235**	**114**	**676**	**381**	**77.3**
Delaware	w	w	w	w	w	w
District of Columbia	1	17	6	44	38	17.5
Florida	*	*	*	*	1	-85.6
Georgia	5	7	14	18	31	-42.0
Maryland	w	w	w	w	w	w
North Carolina	55	45	35	172	99	72.8
South Carolina	29	19	7	84	14	490.3
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
East South Central Total	**68**	**241**	**101**	**602**	**271**	**122.3**
Alabama	11	5	19	41	60	-32.1
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	**2**	*	**2**	**7**	**9**	**-13.4**
Arkansas	*	*	*	*	2	-80.1
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	*	w	w	w
Texas	2	*	1	6	6	-.2
Mountain Total	**w**	**w**	**w**	**w**	**w**	**w**
Arizona	1	-	1	1	2	-51.3
Colorado	91	6	10	106	34	212.3
Idaho	5	2	10	22	30	-25.6
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	28	15	7	113	51	120.0
Pacific Total	**176**	**219**	**108**	**586**	**420**	**39.6**
Alaska	107	140	96	408	358	14.1
California	50	42	-	92	*	NM
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	18	36	12	86	62	37.9
U.S. Total	**1,178**	**1,593**	**1,236**	**4,823**	**4,228**	**14.1**

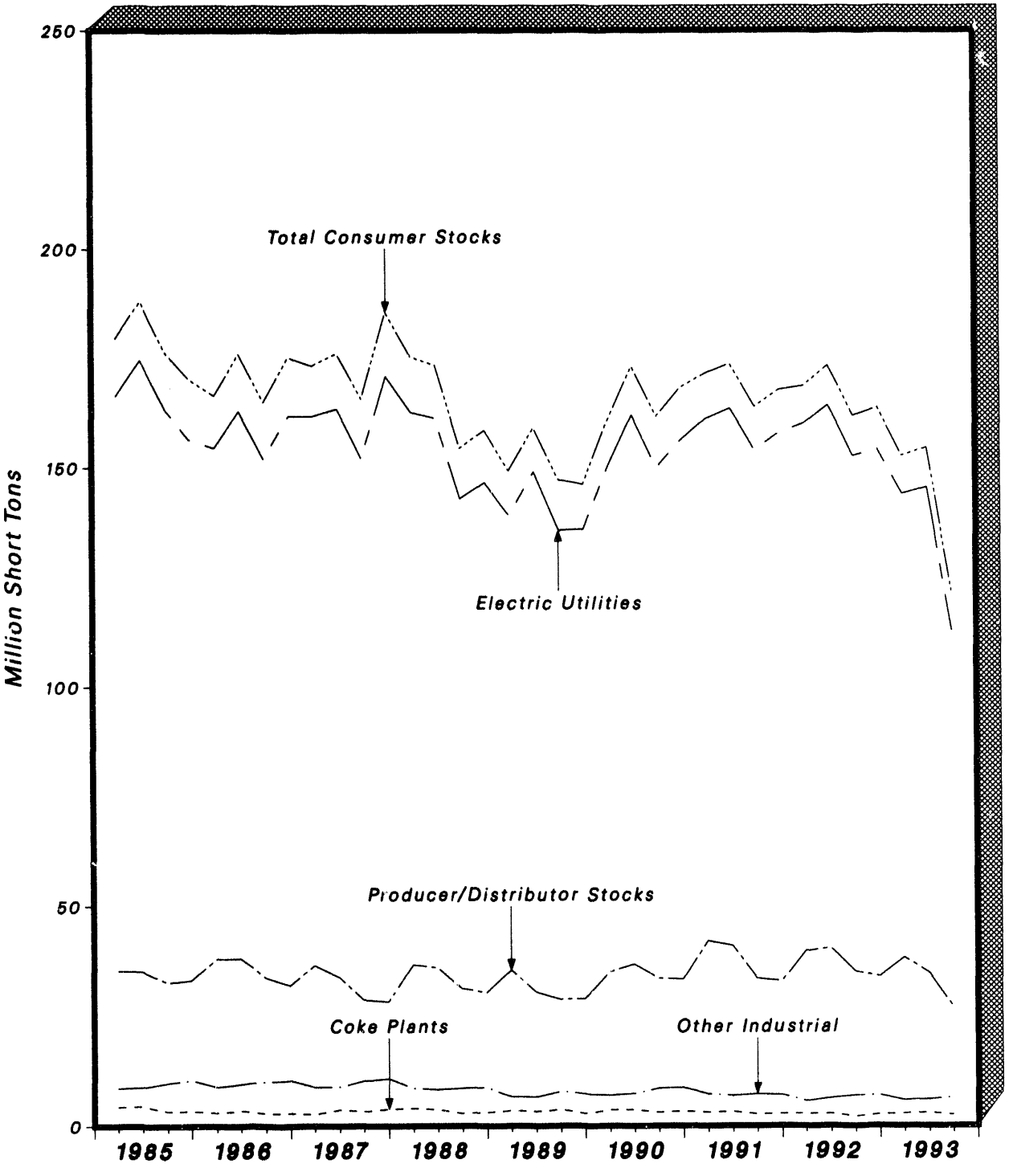
* Rounded to zero.
NM Percent change calculation not meaningful as value is greater than 500.
w Withheld to avoid disclosure of individual company data.
Note: Total may not equal sum of components because of independent rounding.
Source: Energy Information Administration, Form EIA-6, "Coal Distribution Report."

Stocks



***Large** quantities of coal produced by many mines are collected and stockpiled in an orderly fashion at storage 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	10,438	170,234	33,133	203,367
1986 March 31	154,415	3,067	8,916	166,398	38,024	204,422
June 30	162,909	3,537	9,572	176,018	38,148	214,166
September 30	151,945	2,866	10,074	164,885	33,804	198,689
December 31	161,806	2,992	10,429	175,226	32,093	207,319
1987 March 31	161,648	2,675	8,850	173,173	36,560	209,733
June 30	163,361	3,735	8,941	176,037	33,939	209,976
September 30	151,961	3,340	10,297	165,598	28,775	194,373
December 31	170,797	3,884	10,777	185,459	28,321	213,780
1988 March 31	162,603	4,057	8,619	175,279	36,764	212,044
June 30	161,215	3,763	8,331	173,308	36,079	209,386
September 30	142,830	2,877	8,624	154,331	31,360	185,691
December 31	146,507	3,137	8,768	158,413	30,418	188,831
1989 March 31	139,038	3,518	6,683	149,238	35,508	184,745
June 30	148,981	3,361	6,671	159,013	30,598	189,612
September 30	135,640	3,707	7,818	147,165	28,848	176,013
December 31	135,860	2,864	7,363	146,087	29,000	175,087
1990 March 31	150,118	3,680	6,984	160,782	35,099	195,881
June 30	161,908	3,739	7,413	173,061	36,895	209,956
September 30	149,913	3,124	8,603	161,639	33,659	195,298
December 31	156,166	3,329	8,716	168,210	33,418	201,629
1991 March 31	161,084	3,130	7,271	171,485	42,162	213,647
June 30	163,459	3,283	6,921	173,663	41,054	214,716
September 30	153,907	2,695	7,258	163,860	33,628	197,488
December 31	157,876	2,773	7,061	167,711	32,971	200,682
1992 March 31	160,032	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	152,685	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
September 30	112,773	2,536	6,488	121,796	27,183	148,980

[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, September 30, 1993
(Thousand Short Tons)

Census Division and State	Electric Utilities	Coke Plants	Other Industrial[1]	Total
New England Total	**1,245**	**-**	**23**	**1,268**
Connecticut	116	-	W	W
Maine	-	-	W	W
Massachusetts	762	-	W	W
New Hampshire	367	-	W	W
Rhode Island	-	-	W	W
Vermont	-	-	W	W
Middle Atlantic Total	**13,331**	**W**	**W**	**14,695**
New Jersey	548	-	W	W
New York	1,166	W	299	W
Pennsylvania	11,616	693	272	12,581
East North Central Total	**27,754**	**999**	**2,031**	**30,783**
Illinois	4,780	W	278	W
Indiana	6,735	500	551	7,786
Michigan	6,171	W	684	W
Ohio	7,390	224	236	7,851
Wisconsin	2,678	-	282	2,960
West North Central Total	**13,546**	**-**	**780**	**14,326**
Iowa	3,209	-	364	3,573
Kansas	2,073	-	11	2,085
Minnesota	1,214	-	56	1,270
Missouri	3,061	-	129	3,190
Nebraska	1,267	-	W	W
North Dakota	2,460	-	W	W
South Dakota	262	-	W	W
South Atlantic Total	**18,848**	**W**	**W**	**20,049**
Delaware	220	-	W	W
District of Columbia	-	-	-	-
Florida	3,032	-	111	3,143
Georgia	2,861	-	109	2,970
Maryland	1,742	W	43	W
North Carolina	2,594	-	193	2,787
South Carolina	1,339	-	203	1,542
Virginia	1,361	W	220	W
West Virginia	5,699	W	182	W
East South Central Total	**10,310**	**W**	**W**	**11,320**
Alabama	3,231	352	124	3,707
Kentucky	4,636	W	100	W
Mississippi	415	-	W	W
Tennessee	2,028	-	251	2,278
West South Central Total	**11,004**	**21**	**904**	**11,929**
Arkansas	981	-	16	997
Louisiana	1,316	-	90	1,406
Oklahoma	1,772	-	114	1,886
Texas	6,935	21	685	7,641
Mountain Total	**15,384**	**W**	**386**	**W**
Arizona	3,624	-	29	3,653
Colorado	3,402	-	11	3,413
Idaho	-	-	184	184
Montana	816	-	W	W
Nevada	1,125	-	W	W
New Mexico	1,369	-	W	W
Utah	3,321	W	22	W
Wyoming	1,727	-	94	1,822
Pacific Total	**1,351**	**-**	**205**	**1,556**
Alaska	5	-	-	5
California	-	-	95	95
Hawaii	-	-	W	W
Oregon	586	-	W	W
Washington	760	-	31	791
U.S. Total	**112,773**	**2,536**	**6,488**	**121,796**

[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	September 30, 1993	June 30, 1993	September 30, 1992	Percent Difference September 30: 1993 versus 1992
New England Total	**1,245**	**1,367**	**1,275**	**-2.3**
Connecticut	116	166	169	-31.5
Maine	-	-	-	-
Massachusetts	762	794	721	5.8
New Hampshire	367	407	385	-4.7
Rhode Island	-	-	-	-
Vermont	-	-	-	-
Middle Atlantic Total	**13,331**	**16,451**	**16,678**	**-20.1**
New Jersey	548	816	785	-30.1
New York	1,166	1,675	1,617	-27.9
Pennsylvania	11,616	13,961	14,276	-18.6
East North Central Total	**27,754**	**36,292**	**42,156**	**-34.2**
Illinois	4,780	6,317	7,393	-35.3
Indiana	6,735	9,419	12,443	-45.9
Michigan	6,171	6,544	7,871	-21.6
Ohio	7,390	10,509	10,090	-26.8
Wisconsin	2,678	3,502	4,360	-38.6
West North Central Total	**13,546**	**16,809**	**20,736**	**-34.7**
Iowa	3,209	3,631	4,751	-32.5
Kansas	2,073	2,402	3,227	-35.8
Minnesota	1,214	1,711	2,200	-44.8
Missouri	3,061	4,988	6,269	-51.2
Nebraska	1,267	1,532	1,808	-29.9
North Dakota	2,460	2,275	2,207	11.5
South Dakota	262	270	275	-4.5
South Atlantic Total	**18,848**	**26,915**	**24,815**	**-24.0**
Delaware	220	450	294	-25.4
District of Columbia	-	-	-	-
Florida	3,032	4,134	4,123	-26.5
Georgia	2,861	4,756	3,395	-15.7
Maryland	1,742	2,196	2,313	-24.7
North Carolina	2,594	3,971	3,164	-18.0
South Carolina	1,339	1,955	1,737	-22.9
Virginia	1,361	1,814	1,611	-15.5
West Virginia	5,699	7,640	8,178	-30.3
East South Central Total	**10,310**	**15,187**	**11,410**	**-9.6**
Alabama	3,231	5,324	3,539	-8.7
Kentucky	4,636	5,112	4,656	-.4
Mississippi	415	938	799	-48.1
Tennessee	2,028	3,812	2,416	-16.1
West South Central Total	**11,004**	**14,573**	**16,816**	**-34.6**
Arkansas	981	1,175	1,843	-46.8
Louisiana	1,316	1,741	2,174	-39.5
Oklahoma	1,772	2,908	2,834	-37.5
Texas	6,935	8,749	9,965	-30.4
Mountain Total	**15,384**	**16,462**	**17,452**	**-11.8**
Arizona	3,624	3,746	4,083	-11.2
Colorado	3,402	3,502	3,680	-7.5
Idaho	-	-	-	-
Montana	816	763	784	4.0
Nevada	1,125	1,376	1,453	-22.6
New Mexico	1,369	1,517	1,345	1.7
Utah	3,321	3,652	3,471	-4.3
Wyoming	1,727	1,906	2,635	-34.5
Pacific Total	**1,351**	**1,392**	**1,346**	**.4**
Alaska	5	6	7	-32.1
California	-	-	-	-
Hawaii	-	-	-	-
Oregon	586	435	561	4.5
Washington	760	951	777	-2.2
U.S. Total	**112,773**	**145,448**	**152,685**	**-26.1**

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	September 30, 1993	June 30, 1993	September 30, 1992	Percent Difference September 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	693	828	702	-1.3
East North Central Total	**999**	**1,096**	**835**	**19.7**
Illinois	W	W	W	W
Indiana	500	641	433	15.7
Michigan	W	W	W	W
Ohio	224	162	157	43.3
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	352	457	331	6.3
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	296	365	293	.8
Furnace Coke Plants	2,240	2,655	1,922	16.6
U.S. Total	**2,536**	**3,020**	**2,215**	**14.5**

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

Census Division and State	September 30, 1993	June 30, 1993	September 30, 1992	Percent Difference September 30: 1993 versus 1992
New England Total	**23**	**14**	**16**	**41.6**
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	299	275	307	-2.6
Pennsylvania	272	280	322	-15.5
East North Central Total	**2,031**	**1,877**	**2,304**	**-11.8**
Illinois	278	320	339	-17.9
Indiana	551	653	726	-24.2
Michigan	684	456	780	-12.3
Ohio	236	219	183	29.2
Wisconsin	282	229	276	2.2
West North Central Total	**780**	**775**	**1,070**	**-27.1**
Iowa	364	354	638	-42.9
Kansas	11	10	13	-9.2
Minnesota	56	47	77	-26.9
Missouri	129	183	182	-28.7
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	111	90	23.0
Georgia	109	154	162	-33.0
Maryland	43	40	34	28.3
North Carolina	193	211	205	-6.0
South Carolina	203	281	212	-4.4
Virginia	220	219	241	-8.3
West Virginia	182	187	152	19.6
East South Central Total	**w**	**w**	**w**	**w**
Alabama	124	163	128	-3.0
Kentucky	100	106	124	-19.5
Mississippi	w	w	w	w
Tennessee	251	263	251	-.2
West South Central Total	**904**	**569**	**642**	**41.0**
Arkansas	16	22	18	-14.8
Louisiana	w	w	w	w
Oklahoma	w	w	w	w
Texas	685	433	486	40.9
Mountain Total	**386**	**311**	**424**	**-9.0**
Arizona	29	44	55	-46.7
Colorado	11	13	18	-42.5
Idaho	184	102	169	9.1
Montana	w	w	w	w
Nevada	w	w	w	w
New Mexico	w	w	w	w
Utah	22	25	28	-21.0
Wyoming	94	80	100	-6.1
Pacific Total	**205**	**155**	**230**	**-10.7**
Alaska	-	-	-	-
California	95	106	121	-21.5
Hawaii	w	w	w	w
Oregon	w	w	w	w
Washington	31	20	36	-15.5
U.S. Total	**6,488**	**6,049**	**6,979**	**-7.0**

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		September 30, 1993	June 30, 1993	September 30, 1992	Percent Difference September 30: 1993 versus 1992
20	Food and kindred products	696	578	881	-21.1
21	Tobacco products	75	72	62	20.9
22	Textile mill products	124	124	104	19.4
23	Apparel, other textile products	w	w	w	w
24	Lumber and wood products	29	16	30	-4.3
25	Furniture and fixtures	23	11	29	-19.9
26	Paper and allied products	1,031	886	1,117	-7.7
27	Printing and publishing	w	w	w	w
28	Chemicals, allied products	1,152	1,205	1,184	-2.7
29	Petroleum and coal products[1]	234	184	153	53.2
30	Rubber, misc. plastic products	11	14	15	-25.4
31	Leather, leather products	w	w	w	w
32	Stone, clay, glass products	1,563	1,640	1,688	-7.4
33	Primary metal industries[2]	1,049	885	1,090	-3.7
34	Fabricated metal products	48	53	64	-24.8
35	Machinery, except electric	69	53	149	-53.6
36	Electric, electronic equipment	12	13	14	-14.4
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		**6,488**	**6,049**	**6,979**	**-7.0**

[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	September 30, 1993	June 30, 1993	September 30, 1992	Percent Difference September 30: 1993 versus 1992
Coke Total	**1,481**	**1,683**	**2,055**	**-27.9**
By State				
Alabama	75	93	97	-22.8
Illinois	w	w	w	w
Indiana	263	319	435	-39.7
Kentucky	w	w	w	w
Maryland	w	w	w	w
Michigan	w	w	w	w
New York	w	w	w	w
Ohio	131	138	166	-21.1
Pennsylvania	373	420	576	-35.1
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	250	282	271	-7.5
Furnace Coke Plants	1,231	1,401	1,784	-31.0
Breeze Total	**344**	**151**	**252**	**36.8**

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

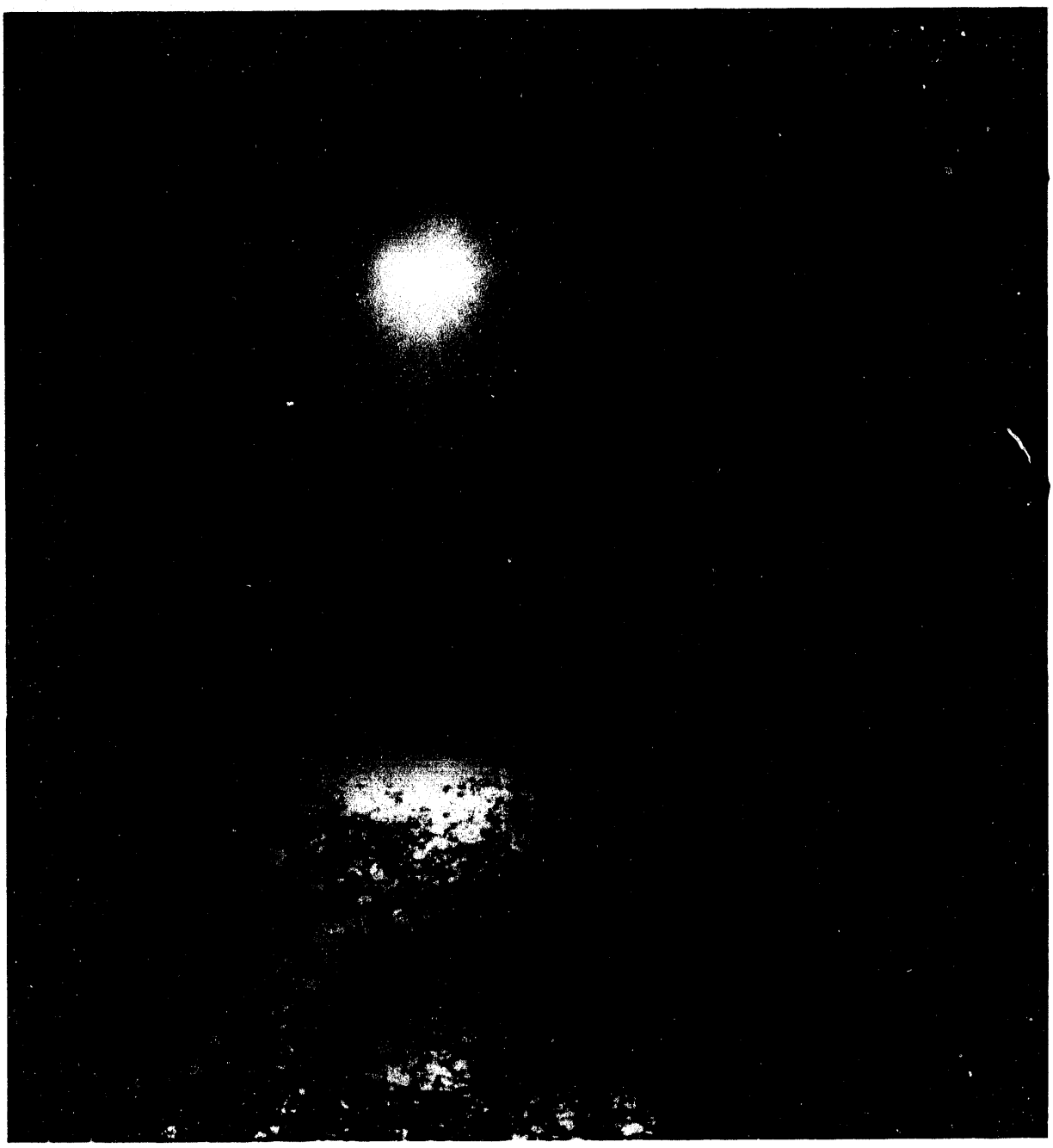
Table 59. Coal Stocks at Coal Producers and Distributors by Coal-Producing State
(Thousand Short Tons)

Coal-Producing State	September 30, 1993	June 30, 1993	September 30, 1992	Percent Difference September 30: 1993 versus 1992
Alabama	1,959	2,316	1,784	9.8
Alaska	22	49	67	-67.7
Arizona	1,531	1,707	1,568	-2.3
Arkansas	4	2	4	-.8
California	-	-	21	-
Colorado	1,050	1,341	1,120	-6.3
Illinois	812	968	2,114	-61.6
Indiana	587	764	1,053	-44.2
Kansas	28	31	29	-.3
Kentucky Total	3,651	4,614	4,519	-19.2
Eastern	2,881	3,795	3,052	-5.6
Western	770	819	1,467	-47.5
Louisiana	2	2	6	-58.8
Maryland	252	286	52	385.7
Montana	750	719	860	-12.7
New Mexico	2,319	2,283	1,741	33.2
North Dakota	1,580	1,904	1,637	-3.5
Ohio	588	640	857	-31.4
Oklahoma	6	6	69	-90.9
Pennsylvania Total	2,158	2,353	3,080	-29.9
Anthracite	265	255	222	19.2
Bituminous	1,893	2,098	2,858	-33.8
Tennessee	81	27	63	30.0
Texas	711	555	440	61.6
Utah	1,475	1,769	1,906	-22.6
Virginia	1,550	2,249	1,953	-20.6
Washington	68	53	69	-1.2
West Virginia Total	4,378	6,910	7,510	-41.7
Northern	676	1,651	3,316	-79.6
Southern	3,702	5,259	4,194	-11.7
Wyoming	1,620	3,279	2,677	-39.5
Appalachian Total	**13,847**	**18,575**	**18,351**	**-24.5**
Interior Total	**2,921**	**3,148**	**5,181**	**-43.6**
Western Total	**10,415**	**13,104**	**11,666**	**-10.7**
East of the Miss. River	**16,016**	**21,127**	**22,984**	**-30.3**
West of the Miss. River	**11,167**	**13,700**	**12,214**	**-8.6**
U.S. Total	**27,183**	**34,827**	**35,198**	**-22.8**

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

Appendix A

U.S. Coal 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

U.S. coal imports during the third quarter of 1993 totaled 2.1 million short tons, 143 percent higher than coal imports during the third quarter of 1992. Although this was the highest quarterly level of U.S. coal imports, it represented less than 1 percent of the total domestic coal supply. This increase was primarily due to additional shipments from Colombia, Venezuela, and Canada. Coal imports for the third quarter of 1993 were valued at $63 million, based on an average price of $29.52 per short ton.

From January through September 1993, coal imports reached a record level with 4 million short tons, a 71-percent increase over the January through September 1992 total. This brought the value of imported coal for the first 9 months of 1993 to $136 million, based on an average price of $30.52. Colombia was the largest supplier of foreign coal in the third quarter of 1993, accounting for about two-thirds of all imported coal, followed by Venezuela, Canada, and Indonesia. Coal shipments from Colombia totaled 1.4 million short tons, 185 percent above their third quarter level in 1992. During the same period, coal imports from Venezuela amounted to 365 thousand short tons, 313 thousand short tons more than in the comparable quarter in 1992.

Imported coal received by electric utility plants during the January through September 1993 period totaled 2.7 million short tons, 104 percent more coal imported than during the first 9 months of 1992. A number of U.S. utilities, including Baltimore Gas and Electric, Gulf Power, Tampa Electric, and Central Power and Light took advantage of the lower delivered cost of Colombian and Venezuelan coal compared to that offered by domestic suppliers. The Jacksonville Electric Authority, St. Johns River Plant, received 658 thousand short tons during the third quarter of 1993, a 64-percent increase over the same period in 1992.

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	2,142	29.52	NA	NA	4,448	30.52

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	r94	-	-	-	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
July - September	22	278	1,361	110	-	365	7	2,142
Total	76	728	2,388	467	-	774	15	4,448
				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
July - September	33.35	31.93	27.12	45.68	-	29.93	21.25	29.20
Total	31.43	28.27	27.94	42.18	-	29.76	21.19	29.91

[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	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
U.S. Total	**2,142,488**	**1,092,554**	**881,973**	**4,448,162**	**2,604,164**	**70.8**
			Exporting Country: Australia			
Honolulu, HI	22,061	53,797	23,166	75,858	72,362	4.8
Total	**22,061**	**53,797**	**23,166**	**75,858**	**72,362**	**4.8**
			Exporting Country: Canada			
Chicago, IL	60,149	14,644	29,412	74,793	139,664	-46.4
Portland, ME	-	-	-	-	18	-
Detroit, MI	59,936	58,135	-	118,071	-	-
Duluth, MN	11,967	87	-	12,266	-	-
Great Falls, MT	8,813	12,409	6,375	32,363	25,444	27.2
Pembina, ND	131,234	185,128	168,356	468,144	546,365	-14.3
Seattle, WA	5,523	6,112	11,341	22,659	16,405	38.1
Total	**277,622**	**276,515**	**215,484**	**728,296**	**727,896**	**.1**
			Exporting Country: Colombia			
Mobile, AL	124,302	-	-	124,302	-	-
Tampa, FL	758,198	433,792	403,133	1,599,436	1,012,323	58.0
New Orleans, LA	111,305	-	-	111,305	-	-
Boston, MA	138,367	-	-	227,643	69,130	229.3
Baltimore, MD	76,503	-	-	76,503	-	-
Portland, ME	27,439	-	-	27,439	30,032	-8.6
Philadelphia, PA	-	-	-	27,524	-	-
San Juan, PR	24,251	-	32,216	52,056	82,552	-36.9
Houston-Galveston, TX	60,635	-	42,484	60,635	42,484	42.7
Virgin Islands	39,860	40,818	-	80,678	21,456	276.0
Total	**1,360,860**	**474,610**	**477,833**	**2,387,521**	**1,257,977**	**89.8**
			Exporting Country: Indonesia			
Mobile, AL	-	-	-	74,556	-	-
Honolulu, HI	110,461	114,606	113,149	392,885	253,287	55.1
Total	**110,461**	**114,606**	**113,149**	**467,441**	**253,287**	**84.5**
			Exporting Country: Venezuela			
Mobile, AL	84,104	64,720	-	214,912	-	-
New Orleans, LA	86,716	-	-	156,988	-	-
Boston, MA	142,282	40,787	-	183,069	-	-
Portland, ME	25,223	24,315	24,251	76,017	52,564	44.6
Philadelphia, PA	-	35,004	-	35,004	68,776	-49.1
San Juan, PR	-	-	-	27,558	27,299	.9
Virgin Islands	26,239	-	27,717	80,378	143,629	-44.0
Total	**364,564**	**164,826**	**51,968**	**773,926**	**292,268**	**164.8**
			Other Exporting Countries			
San Francisco, CA	-	-	284	-	284	-
New Orleans, LA	5,376	7,549	-	12,925	-	-
New York City, NY	-	2	-	2	-	-
Cleveland, OH	-	-	89	-	89	-
Philadelphia, PA	-	-	-	-	1	-
San Juan, PR	4	-	-	4	-	-
Laredo, TX	1,540	649	-	2,189	-	-
Total	**6,920**	**8,200**	**373**	**15,120**	**374**	**(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	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
Total	**$29.20**	**$31.10**	**$33.24**	**$29.91**	**$32.72**	**-8.6**
			Exporting Country: Australia			
Honolulu, HI	$33.35	$30.65	$33.67	$31.43	$37.02	-15.1
Total	**33.35**	**30.65**	**33.67**	**31.43**	**37.02**	**-15.1**
			Exporting Country: Canada			
Chicago, IL	$35.84	-	-	$35.84	$25.71	39.4
Detroit, MI	47.41	$44.61	-	46.03	-	-
Pembina, ND	22.57	22.58	$25.54	22.38	25.27	-11.5
Seattle, WA	29.03	26.34	30.96	28.83	31.89	-9.6
Total	**31.93**	**26.06**	**25.90**	**28.27**	**25.51**	**10.8**
			Exporting Country: Colombia			
Mobile, AL	$23.02	-	-	$23.02	-	-
Tampa, FL	28.05	$28.79	$32.13	28.17	$32.53	-13.4
New Orleans, LA	23.96	-	-	23.96	-	-
Boston, MA	29.06	-	-	29.90	34.59	-13.6
Baltimore, MD	27.28	-	-	27.28	-	-
Portland, ME	28.83	-	-	28.83	31.34	-8.0
Philadelphia, PA	-	-	-	32.66	-	-
San Juan, PR	24.49	-	38.13	31.72	37.39	-15.2
Houston-Galveston, TX	24.11	-	32.92	24.11	32.92	-26.8
Virgin Islands	29.12	31.11	-	30.13	32.52	-7.4
Total	**27.12**	**28.99**	**32.60**	**27.94**	**32.95**	**-15.2**
			Exporting Country: Indonesia			
Mobile, AL	-	-	-	$24.78	-	-
Honolulu, HI	$45.68	$45.69	$45.42	45.49	$40.94	11.1
Total	**45.68**	**45.69**	**45.42**	**42.18**	**40.94**	**3.0**
			Exporting Country: Venezuela			
Mobile, AL	$27.80	$34.92	-	$30.24	-	-
New Orleans, LA	29.61	-	-	28.05	-	-
Boston, MA	29.28	27.22	-	28.82	-	-
Portland, ME	34.96	27.51	$41.10	29.99	$43.32	-30.8
Philadelphia, PA	-	33.57	-	33.57	35.88	-6.4
San Juan, PR	-	-	-	27.22	32.20	-15.5
Virgin Islands	34.33	-	32.52	33.11	41.29	-19.8
Total	**29.93**	**31.63**	**36.53**	**29.76**	**39.53**	**-24.7**
			Other Exporting Countries			
Cleveland, OH	-	-	$34.12	-	$34.12	-
Laredo, TX	$21.25	$21.07	-	$21.19	-	-
Total	**21.25**	**21.07**	**34.12**	**21.19**	**34.12**	**-37.9**

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	July - September 1993	April - June 1993	July - September 1992	Year to Date		
				1993	1992	Percent Change
U.S. Total	**1,398,868**	**478,415**	**494,424**	**2,657,460**	**1,304,234**	**103.8**
			Exporting Country: Canada			
New England Power (NEES), Salem Harbor	-	-	-	-	32,800	-
Takoma Dept. of Public Utilities, Steam No.2	5,540	5,610	10,290	22,830	15,290	49.3
Total	**5,540**	**5,610**	**10,290**	**22,830**	**48,090**	**-52.5**
			Exporting Country: Colombia			
Baltimore Gas and Electric, Brandon Shores	77,000	-	-	77,000	-	-
Central Power and Light (CSW), Coleto Creek	60,634	-	-	60,634	-	-
Gulf Power, Crist	102,100	-	-	102,100	-	-
Gulf Power, Scholtz	7,400	-	-	7,400	-	-
Jacksonville Electric Authority, St Johns River	658,050	400,400	441,650	1,578,100	1,050,960	50.2
New England Power (NEES), Brayton Point	67,600	-	-	107,900	-	-
Public Serv Co of New Hampshire, Schiller	27,438	24,705	-	52,143	30,000	73.8
Tampa Electric, Davant Transfer	33,783	-	-	33,783	-	-
Total	**1,034,005**	**425,105**	**441,650**	**2,019,060**	**1,080,960**	**86.8**
			Exporting Country: Indonesia			
Mississippi Power (Southern Co), Daniel	-	-	-	67,547	-	-
Public Serv Co of Indiana, Gallagher	3,000	8,100	-	11,100	-	-
Total	**3,000**	**8,100**	**-**	**78,647**	**-**	**-**
			Exporting Country: Venezuela			
Central Power and Light (CSW), Coleto Creek	-	-	42,484	-	42,484	-
Gulf Power, Crist	106,000	-	-	172,000	-	-
Gulf Power, Scholtz	16,000	-	-	16,000	-	-
New England Power (NEES), Brayton Point	136,400	-	-	184,900	104,400	77.1
New England Power (NEES), Salem Harbor	72,700	39,600	-	112,300	-	-
Public Serv Co of New Hampshire, Schiller	25,223	-	-	51,723	28,300	82.8
Total	**356,323**	**39,600**	**42,484**	**536,923**	**175,184**	**206.5**

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
1993						
July - September	77.0	12,515	.61	6.43	158.7	39.72
Total	**77.0**	**12,515**	**.61**	**6.43**	**158.7**	**39.72**
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), Coleto 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**
1993						
July - September	60.6	12,064	.59	6.30	148.6	35.85
Total	**60.6**	**12,064**	**.59**	**6.30**	**148.6**	**35.85**
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	12,568	.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						
Colombia						
1993						
July - September	102.1	12,019	0.61	5.41	191.7	46.09
Total	**102.1**	**12,019**	**.61**	**5.41**	**191.7**	**46.09**
Venezuela						
1993						
January - March	66.0	13,014	.54	5.90	221.4	57.63
July - September	106.0	12,961	.59	6.07	153.2	39.72
Total	**172.0**	**12,981**	**.57**	**6.00**	**179.5**	**46.59**

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, Scholtz						
Colombia						
1993						
July - September	7.4	12,170	0.62	7.50	164.4	40.01
Total	**7.4**	**12,170**	**.62**	**7.50**	**164.4**	**40.01**
Venezuela						
1993						
July - September	16.0	12,958	.58	6.10	170.6	44.20
Total	**16.0**	**12,958**	**.58**	**6.10**	**170.6**	**44.20**
Company and Plant: Gulf Power, Smith						
South Africa						
1980	749.8	11,908	0.67	12.96	187.8	44.72
1981	712.3	11,894	.71	13.06	211.4	50.29
1982	605.0	11,950	.68	12.71	216.2	51.68
1983	813.7	12,056	.65	11.96	224.5	54.12
1984	616.4	11,914	.64	12.52	243.8	58.10
1985	865.5	11,757	.59	12.78	254.5	59.85
1986	1,030.5	11,755	.53	12.45	216.9	50.98
1987	79.3	11,650	.47	12.80	220.8	51.45
Company and Plant: Jacksonville Electric Authority, St Johns River						
Colombia						
1987	93.6	11,646	0.58	7.90	137.0	31.91
1988	686.9	11,838	.70	6.72	144.4	34.19
1989	803.5	11,978	.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	658.0	11,865	.67	7.29	134.6	31.94
Total	**1,578.1**	**11,865**	**.68**	**7.15**	**136.8**	**32.46**
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

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						
Colombia						
1987	29.0	11,928	0.72	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	186.0	45.52
July - September	67.6	12,115	.61	5.50	162.0	39.25
Total	**107.9**	**12,161**	**.62**	**5.42**	**171.0**	**41.59**
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
1992						
January - March	70.0	13,495	.74	7.14	166.9	45.05
April - June	34.4	13,378	.76	7.25	166.8	44.63
October - December	24.6	13,027	.77	7.92	157.7	41.09
Total	**129.0**	**13,375**	**.75**	**7.32**	**165.2**	**44.18**
1993						
January - March	48.5	13,034	.76	8.00	163.6	42.64
July - September	136.4	13,139	.65	7.72	165.9	43.60
Total	**184.9**	**13,112**	**.68**	**7.80**	**165.3**	**43.35**
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
July - September	72.7	12,899	.55	6.44	132.9	34.28
Total	**112.3**	**12,953**	**.55**	**6.22**	**152.0**	**39.38**
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

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						
Canada						
1987	1.5	13,100	1.80	8.50	146.5	38.38
1988	5.6	13,452	1.10	3.10	146.1	39.31
1990	33.6	13,459	1.30	5.90	181.0	48.72
Colombia						
1987	9.2	11,825	.67	7.30	153.8	36.37
1992						
January - March	30.0	12,154	.63	5.49	156.2	37.96
October - December	18.4	12,876	.59	7.65	158.9	40.92
Total	**48.4**	**12,428**	**.61**	**6.31**	**157.2**	**39.08**
1993						
April - June	24.7	12,765	.69	6.60	151.3	38.63
July - September	27.4	12,948	.59	8.30	148.9	38.56
Total	**52.1**	**12,861**	**.64**	**7.49**	**150.0**	**38.59**
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**	**12,918**	**.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
July - September	5.5	10,060	.46	12.30	178.0	35.81
Total	**22.8**	**10,029**	**.48**	**12.68**	**179.9**	**36.09**

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, Big Bend[3]						
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
Company and Plant: Tampa Electric, Davant Transfer						
Colombia						
1993						
July - September	33.8	11,469	1.53	7.80	220.7	50.62
Total	**33.8**	**11,469**	**1.53**	**7.80**	**220.7**	**50.62**
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	36.40
April - June	5.6	9,727	.48	12.40	183.0	35.60
July - September	5.5	10,060	.46	12.30	178.0	35.81
Total	**22.8**	**10,029**	**.48**	**12.68**	**179.9**	**36.09**
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**

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					
Colombia						
1993						
January - March	559.9	11,927	0.69	6.67	138.7	33.09
April - June	425.1	11,869	.68	7.37	143.4	34.04
July - September	1,034.0	11,975	.68	6.91	148.1	35.47
Total	**2,019.1**	**11,939**	**.68**	**6.94**	**144.5**	**34.51**
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**
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	356.3	13,013	.60	6.87	153.8	40.04
Total	**536.9**	**13,013**	**.61**	**6.65**	**164.7**	**42.87**

[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	232.6	12,211	.93	11.97	213.5	52.15
Total	**232.6**	**12,211**	**.93**	**11.97**	**213.5**	**52.15**
Year to Date						
Alabama	682.5	12,200	.93	11.56	211.0	51.49
Total	**682.5**	**12,200**	**.93**	**11.56**	**211.0**	**51.49**
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**	**12,766**	**.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	12,619	.73	8.95	154.6	39.63
Colombia	132.0	12,361	.57	5.30	193.3	47.79
Total	**1,787.0**	**12,606**	**.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	254.0	12,883	.71	7.82	156.4	40.34
West Virginia	274.0	12,799	.68	9.36	156.2	39.99
Colombia	77.0	12,515	.61	6.43	158.7	39.72
Total	**605.0**	**12,812**	**.68**	**8.34**	**156.6**	**40.10**
Year to Date						
Kentucky	588.0	12,933	.71	7.67	155.5	40.24
West Virginia	1,239.0	12,667	.67	9.77	152.1	38.54
Colombia	77.0	12,515	.61	6.43	158.7	39.72
Total	**1,904.0**	**12,744**	**.68**	**8.98**	**153.4**	**39.11**
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**

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					
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**
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	41.09
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**	**6.76**	**139.4**	**37.22**
April - June						
Kentucky	15.0	13,271	.95	6.31	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	90.0	13,406	1.25	5.89	174.4	46.76
Pennsylvania	23.0	12,819	2.11	9.43	159.8	40.97
West Virginia	125.0	13,227	2.17	7.70	148.4	39.27
Total	**238.0**	**13,255**	**1.82**	**7.19**	**159.4**	**42.26**
Year to Date						
Kentucky	105.0	13,386	1.20	5.95	174.8	46.80
Pennsylvania	76.0	13,159	2.08	7.64	145.2	38.22
Virginia	7.0	13,207	.74	9.20	161.1	42.55
West Virginia	354.0	13,323	2.09	7.18	141.2	37.62
Total	**542.0**	**13,311**	**1.90**	**7.03**	**148.5**	**39.55**

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						
1980						
Pennsylvania	179.8	12,983	0.89	8.15	178.1	46.26
West Virginia	490.0	12,880	.91	8.93	185.7	47.83
Total	**669.8**	**12,908**	**.90**	**8.72**	**183.6**	**47.41**
1981						
Pennsylvania	194.0	13,152	.90	8.33	199.0	52.34
West Virginia	340.0	12,811	.90	9.08	208.3	53.36
Total	**534.0**	**12,935**	**.90**	**8.81**	**204.8**	**52.99**
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	185.0	12,926	.87	8.11	158.8	41.04
Total	**185.0**	**12,926**	**.87**	**8.11**	**158.8**	**41.04**
Year to Date						
West Virginia	551.0	12,977	.86	8.17	157.1	40.78
Total	**551.0**	**12,977**	**.86**	**8.17**	**157.1**	**40.78**
Company and Plant: Central Power and Light (CSW), Coleto 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**

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), Coleto Creek					
1981						
Colorado	1,775.8	10,584	0.32	6.03	225.9	47.82
Total	**1,775.8**	**10,584**	**.32**	**6.03**	**225.9**	**47.82**
1982						
Colorado	2,035.9	10,680	.34	5.53	246.7	52.69
Total	**2,035.9**	**10,680**	**.34**	**5.53**	**246.7**	**52.69**
1983						
Colorado	1,952.3	10,710	.35	5.39	245.6	52.61
Total	**1,952.3**	**10,710**	**.35**	**5.39**	**245.6**	**52.61**
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	461.7	10,638	.39	6.88	197.6	42.03
Colombia	60.6	12,064	.59	6.30	148.6	35.85
Total	**522.3**	**10,803**	**.42**	**6.81**	**191.2**	**41.32**
Year to Date						
Colorado	1,209.9	10,569	.39	6.43	206.6	43.66
Colombia	60.6	12,064	.59	6.30	148.6	35.85
Total	**1,270.5**	**10,640**	**.40**	**6.43**	**203.4**	**43.29**
	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**

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, Ceredo Transfer					
1993						
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**
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**	**64.26**
1984						
Illinois	31.4	12,219	1.11	10.06	256.5	62.68
Kentucky	2,342.2	12,328	.98	10.13	248.8	61.34
Virginia	601.6	12,547	.74	9.73	251.0	62.99
West Virginia	1,069.1	12,572	.71	9.76	250.9	63.09
Colombia	17.7	12,588	.71	9.50	248.0	62.44
Total	**4,062.1**	**12,425**	**.87**	**9.97**	**249.7**	**62.06**
1985						
Kentucky	2,948.9	12,572	.87	9.63	220.3	55.40
Virginia	757.3	12,656	.68	9.09	244.6	61.91
West Virginia	995.4	12,690	.68	9.04	242.9	61.65
Colombia	61.7	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**

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]						
1989						
Kentucky	4,059.1	12,670	0.88	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	42.84
Virginia	841.2	12,424	.71	9.12	230.1	57.17
West Virginia	646.0	12,521	.66	9.78	185.6	46.49
Total	**5,436.4**	**12,631**	**.84**	**8.69**	**180.1**	**45.49**
1992						
Kentucky	3,058.0	12,746	.85	8.40	174.1	44.38
Virginia	845.4	12,362	.72	9.82	225.6	55.78
Total	**3,903.4**	**12,663**	**.82**	**8.71**	**185.0**	**46.85**
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	771.6	12,706	.85	8.30	172.7	43.90
Virginia	227.6	12,335	.70	9.54	215.4	53.14
Total	**999.1**	**12,622**	**.82**	**8.58**	**182.2**	**46.00**
Year to Date						
Kentucky	1,970.8	12,718	.83	8.28	173.2	44.06
Virginia	640.9	12,369	.71	9.46	213.9	52.92
Total	**2,611.7**	**12,632**	**.80**	**8.57**	**183.0**	**46.24**
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**	**12,496**	**.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	149.8	12,409	.85	9.57	165.7	41.13
West Virginia	115.2	12,571	.70	9.36	166.5	41.85
Total	**265.0**	**12,479**	**.79**	**9.48**	**166.1**	**41.45**
Year to Date						
Kentucky	455.1	12,473	.87	9.31	163.8	40.86
West Virginia	258.1	12,575	.69	9.03	167.8	42.20
Total	**713.2**	**12,510**	**.80**	**9.21**	**165.2**	**41.35**
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**

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, TTI Transfer					
1993						
January - March						
Kentucky	26.7	12,392	0.94	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**
July - September						
Kentucky	40.2	12,738	.64	8.33	130.1	33.15
Total	**40.2**	**12,738**	**.64**	**8.33**	**130.1**	**33.15**
Year to Date						
Kentucky	153.2	12,542	.81	8.68	127.6	32.00
Total	**153.2**	**12,542**	**.81**	**8.68**	**127.6**	**32.00**
	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
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**	**9.56**	**172.9**	**42.26**
1988						
Alabama	140.0	11,947	2.87	11.94	113.6	27.14
Illinois	1,453.1	12,136	2.62	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

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						
1989						
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**
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						
Alabama	12.1	13,000	3.17	7.50	198.8	51.69
Illinois	160.7	12,056	2.79	8.50	201.2	48.51
Colombia	102.1	12,019	.61	5.41	191.7	46.09
Venezuela	106.0	12,961	.59	6.07	153.2	39.72
Total	**380.9**	**12,328**	**1.61**	**6.96**	**184.6**	**45.52**
Year to Date						
Alabama	12.1	13,000	3.17	7.50	198.8	51.69
Illinois	1,327.3	11,971	2.64	8.26	174.6	41.79
Kentucky	55.2	12,127	2.65	9.28	123.6	29.98
West Virginia	8.2	13,257	2.79	6.62	223.4	59.24
Colombia	102.1	12,019	.61	5.41	191.7	46.09
Venezuela	172.0	12,981	.57	6.00	179.5	46.59
Total	**1,676.9**	**12,096**	**2.31**	**7.87**	**174.9**	**42.31**
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**

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						
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**	**9.26**	**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**
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						
Illinois	8.2	12,061	2.38	7.60	154.1	37.17
Kentucky	17.5	12,109	3.01	8.64	160.9	38.97
Colombia	7.4	12,170	.62	7.50	164.4	40.01
Venezuela	16.0	12,958	.58	6.10	170.6	44.20
Total	**49.1**	**12,387**	**1.75**	**7.47**	**163.6**	**40.53**
Year to Date						
Illinois	8.2	12,061	2.38	7.60	154.1	37.17
Kentucky	31.8	12,114	3.02	8.71	158.9	38.50
Colombia	7.4	12,170	.62	7.50	164.4	40.01
Venezuela	16.0	12,958	.58	6.10	170.6	44.20
Total	**63.4**	**12,327**	**2.04**	**7.77**	**162.0**	**39.94**
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**	**12.26**	**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	8.60	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**

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						
1985						
Alabama	4.2	11,811	2.76	11.49	211.0	49.84
Kentucky	33.0	11,975	3.05	10.25	175.5	42.03
South Africa	865.5	11,757	.59	12.78	254.5	59.85
Total	**902.7**	**11,765**	**.69**	**12.68**	**251.4**	**59.16**
1986						
Kentucky	13.4	12,476	3.18	10.22	182.5	45.53
South Africa	1,030.5	11,755	.53	12.45	216.9	50.98
Total	**1,043.9**	**11,764**	**.57**	**12.42**	**216.4**	**50.91**
1987						
Alabama	17.5	11,982	3.00	13.90	118.2	28.33
Illinois	336.6	12,083	2.78	9.74	220.1	53.18
Kentucky	422.0	12,490	2.96	9.66	120.6	30.14
South Africa	79.3	11,650	.47	12.80	220.8	51.45
Total	**855.4**	**12,242**	**2.66**	**10.07**	**168.0**	**41.14**
1988						
Illinois	416.8	12,155	2.60	8.48	199.3	48.45
Kentucky	507.6	12,433	3.01	9.66	123.1	30.61
West Virginia	11.8	12,855	2.63	9.20	173.7	44.66
Total	**936.2**	**12,315**	**2.82**	**9.13**	**157.2**	**38.73**
1989						
Illinois	496.5	12,005	2.71	9.04	205.3	49.29
Kentucky	100.4	12,445	3.03	9.52	128.9	32.07
Total	**596.9**	**12,079**	**2.76**	**9.12**	**192.1**	**46.40**
1990						
Illinois	528.3	11,990	2.73	8.95	218.5	52.41
Kentucky	127.6	11,969	2.87	7.78	143.2	34.28
West Virginia	12.4	13,372	2.58	6.10	186.0	49.74
Total	**668.3**	**12,012**	**2.76**	**8.67**	**203.5**	**48.90**
1991						
Illinois	906.3	12,015	2.72	8.66	222.5	53.46
Kentucky	132.5	11,953	2.75	6.12	128.9	30.82
Total	**1,038.8**	**12,007**	**2.72**	**8.34**	**210.6**	**50.57**
1992						
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**	**11,919**	**2.50**	**8.50**	**188.2**	**44.86**
July - September						
Illinois	150.8	12,017	1.85	7.36	202.0	48.55
Total	**150.8**	**12,017**	**1.85**	**7.36**	**202.0**	**48.55**
Year to Date						
Illinois	615.4	11,906	2.27	8.09	178.2	42.43
Kentucky	15.9	12,269	2.96	9.45	121.7	29.85
Total	**631.3**	**11,915**	**2.29**	**8.12**	**176.7**	**42.11**
Company and Plant: Jacksonville Electric Authority, St Johns River						
1986						
Kentucky	204.0	11,728	3.83	12.81	142.6	33.45
Total	**204.0**	**11,728**	**3.83**	**12.81**	**142.6**	**33.45**
1987						
Kentucky	1,109.7	12,557	1.87	9.77	160.8	40.39
West Virginia	563.2	12,232	.87	12.25	160.4	39.25
Colombia	93.6	11,646	.58	7.90	137.0	31.91
Total	**1,766.4**	**12,405**	**1.49**	**10.46**	**159.5**	**39.58**
1988						
Kentucky	1,215.3	12,702	1.03	9.18	164.4	41.75
West Virginia	966.4	12,115	.84	12.63	175.6	42.54
Colombia	686.9	11,838	.70	6.72	144.4	34.19
Total	**2,868.6**	**12,297**	**.89**	**9.76**	**163.5**	**40.21**

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						
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	12,602	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**
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	294.8	12,765	1.29	8.47	175.4	44.77
Colombia	658.0	11,865	.67	7.29	134.6	31.94
Total	**952.9**	**12,144**	**.86**	**7.66**	**147.9**	**35.91**
Year to Date						
Kentucky	998.0	12,806	1.30	8.42	172.8	44.26
West Virginia	243.0	12,049	.75	12.79	187.6	45.21
Colombia	1,578.1	11,865	.68	7.15	136.8	32.46
Total	**2,819.1**	**12,214**	**.91**	**8.09**	**154.5**	**37.74**
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	216.4	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**

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: Montaup Electric, Somerset						
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**
July - September						
Kentucky	14.0	12,704	1.41	8.80	177.8	45.18
Total	**14.0**	**12,704**	**1.41**	**8.80**	**177.8**	**45.18**
Year to Date						
Kentucky	43.1	12,706	.90	8.33	181.7	46.17
Total	**43.1**	**12,706**	**.90**	**8.33**	**181.7**	**46.17**
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	42.79
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	7.36	180.3	44.45

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						
1986						
Ohio	126.3	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	12,276	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**
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	255.7	12,746	2.83	9.30	134.1	34.18
Kentucky	30.3	12,200	.95	8.36	141.8	34.60
West Virginia	15.5	12,326	1.18	12.51	145.6	35.89
Total	**301.5**	**12,670**	**2.56**	**9.37**	**135.4**	**34.31**
Year to Date						
Illinois	824.3	12,702	2.72	9.03	134.0	34.03
Kentucky	205.5	12,130	1.12	8.63	141.3	34.27
West Virginia	15.5	12,326	1.18	12.51	145.6	35.89
Total	**1,045.3**	**12,584**	**2.38**	**9.00**	**135.5**	**34.11**
Company and Plant: Mississippi Power (Southern Co), Daniel						
1990						
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**
1991						
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**

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					
1982						
Alabama	0.1	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**	**11,960**	**.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**	**11,998**	**.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	706.3	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**	**13,026**	**.68**	**7.28**	**203.8**	**53.11**
1988						
Kentucky	1,911.1	13,007	.70	6.96	193.9	50.45
Virginia	64.2	13,458	.71	6.54	166.7	44.86
West Virginia	330.6	12,702	.68	9.29	159.2	40.43
Total	**2,305.9**	**12,976**	**.70**	**7.28**	**188.3**	**48.86**
1989						
Kentucky	1,105.2	13,031	.71	6.72	179.5	46.78
Total	**1,105.2**	**13,031**	**.71**	**6.72**	**179.5**	**46.78**
1990						
Kentucky	1,221.9	12,996	.72	6.95	166.1	43.17
Total	**1,221.9**	**12,996**	**.72**	**6.95**	**166.1**	**43.17**
1991						
Kentucky	1,306.9	12,952	.72	7.41	171.3	44.38
Montana	105.5	9,344	.30	4.10	145.2	27.14
Total	**1,412.3**	**12,692**	**.69**	**7.16**	**169.9**	**43.09**
1992						
Kentucky	810.6	12,968	.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						
Colorado	103.5	11,733	.47	9.77	158.9	37.28
Kentucky	205.3	12,873	.68	8.33	174.1	44.84
Total	**308.8**	**12,491**	**.61**	**8.81**	**169.3**	**42.30**
Year to Date						
Colorado	136.9	11,584	.45	9.70	158.6	36.74
Kentucky	584.9	12,906	.70	8.06	173.9	44.89
Montana	177.7	9,425	.39	4.61	159.1	29.99
Indonesia	67.5	9,745	.08	1.23	168.9	32.92

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					
1993						
Year to Date						
Total	**967.0**	**11,858**	**0.56**	**7.18**	**169.3**	**40.16**
	Company and Plant: New England Power (NEES), Brayton Point					
1980						
Kentucky	77.3	13,708	1.17	4.72	197.5	54.15
Pennsylvania	100.2	13,080	1.26	8.61	191.8	50.17
Virginia	182.9	13,510	1.19	6.39	199.6	53.92
West Virginia	273.1	13,300	1.09	8.05	191.4	50.91
Total	**633.5**	**13,376**	**1.16**	**7.26**	**194.6**	**52.06**
1981						
Pennsylvania	176.6	13,030	1.44	7.36	243.7	63.51
Virginia	550.2	13,031	1.37	9.33	251.4	65.52
West Virginia	317.6	13,142	.98	8.85	239.6	62.97
Total	**1,044.4**	**13,065**	**1.26**	**8.85**	**246.5**	**64.41**
1982						
Pennsylvania	286.8	13,071	1.41	7.10	247.9	64.81
Virginia	895.6	13,134	1.28	7.32	255.5	67.11
West Virginia	977.0	13,142	1.15	8.34	244.3	64.20
Total	**2,159.4**	**13,129**	**1.24**	**7.75**	**249.4**	**65.49**
1983						
Pennsylvania	3.9	13,384	1.37	5.60	239.5	64.11
Virginia	689.1	13,221	1.21	7.05	235.4	62.24
West Virginia	1,114.3	13,112	1.19	8.72	219.1	57.45
Total	**1,807.3**	**13,154**	**1.20**	**8.08**	**225.3**	**59.29**
1984						
Kentucky	30.6	13,148	.76	6.20	188.6	49.59
Pennsylvania	39.8	13,346	1.34	6.70	194.9	52.02
Virginia	1,268.3	13,279	1.06	7.43	213.5	56.70
West Virginia	1,034.2	13,206	1.09	8.04	207.8	54.89
Canada	40.0	12,846	.53	8.90	199.4	51.23
Total	**2,412.9**	**13,240**	**1.06**	**7.69**	**210.2**	**55.66**
1985						
Pennsylvania	142.3	13,250	1.35	6.48	186.7	49.48
Virginia	695.0	13,282	1.10	7.30	198.8	52.82
West Virginia	1,232.5	13,263	1.12	8.25	191.3	50.74
Canada	42.7	12,622	.45	9.61	179.0	45.19
Total	**2,112.5**	**13,256**	**1.12**	**7.84**	**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**

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						
1990						
Kentucky	12.5	12,600	0.94	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						
Kentucky	28.7	12,602	.57	8.67	164.6	41.48
Maryland	.4	13,219	1.32	9.76	164.4	43.47
West Virginia	427.3	13,005	.88	8.28	168.4	43.30
Colombia	67.6	12,115	.61	5.50	162.0	39.25
Venezuela	136.4	13,139	.65	7.72	165.9	43.60
Total	**660.4**	**12,924**	**.79**	**7.90**	**167.1**	**43.19**
Year to Date						
Kentucky	68.7	12,641	.54	7.18	167.7	42.39
Maryland	.4	13,219	1.32	9.76	164.4	43.47
West Virginia	1,385.9	12,984	1.04	8.55	167.4	43.47
Colombia	107.9	12,161	.62	5.42	171.0	41.59
Venezuela	184.9	13,112	.68	7.80	165.3	43.35
Total	**1,747.8**	**12,933**	**.96**	**8.23**	**167.4**	**43.30**
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**

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					
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	5.60	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**
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						
Maryland	10.1	13,219	1.32	9.76	166.4	43.99
West Virginia	94.1	13,078	1.38	9.59	166.0	43.43
Venezuela	72.7	12,899	.55	6.44	132.9	34.28
Total	**176.9**	**13,012**	**1.03**	**8.30**	**152.6**	**39.70**
Year to Date						
Maryland	10.1	13,219	1.32	9.76	166.4	43.99
West Virginia	532.9	13,013	1.29	9.62	167.3	43.53
Venezuela	112.3	12,953	.55	6.22	152.0	39.38
Total	**655.3**	**13,006**	**1.16**	**9.04**	**164.6**	**42.82**
	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**

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					
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	11.6	11,703	3.54	11.84	100.0	23.40
Wyoming	12.2	8,570	.44	5.57	132.8	22.77
Total	**997.2**	**12,041**	**3.31**	**11.28**	**119.9**	**28.88**
1992						
Kentucky	41.4	12,143	.84	10.37	130.5	31.69
Ohio	963.7	12,135	3.62	11.27	104.4	25.35
Pennsylvania	128.2	12,070	2.83	11.73	129.8	31.32
Wyoming	61.3	8,449	.35	5.48	120.1	20.29
Indonesia	13.1	9,587	.14	1.20	166.9	32.00
Total	**1,207.7**	**11,913**	**3.24**	**10.88**	**109.2**	**26.01**
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	268.3	12,159	3.51	11.56	104.9	25.52
Pennsylvania	14.5	11,962	3.66	12.19	89.9	21.51
Total	**282.8**	**12,149**	**3.52**	**11.59**	**104.2**	**25.31**

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					
1993						
Year to Date						
Kentucky	6.1	12,223	0.88	10.70	110.4	26.99
Ohio	882.8	12,130	3.60	11.39	101.3	24.57
Pennsylvania	55.3	11,911	3.45	12.48	89.1	21.22
Total	**944.2**	**12,118**	**3.57**	**11.45**	**100.7**	**24.39**
	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**
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**

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						
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	112.7	11,227	2.16	8.70	124.7	28.00
Kentucky	10.2	12,288	1.44	8.80	109.9	27.01
Pennsylvania	114.4	13,250	2.57	7.27	128.9	34.16
Indonesia	3.0	9,260	.12	1.20	116.0	21.48
Total	**240.3**	**12,211**	**2.30**	**7.93**	**126.2**	**30.81**
Year to Date						
Indiana	359.4	10,955	2.05	8.97	141.1	30.92
Kentucky	11.8	12,233	1.37	9.25	110.6	27.06
Pennsylvania	128.7	13,241	2.57	7.25	129.0	34.17
Indonesia	11.1	9,242	.13	1.35	104.8	19.38
Total	**511.0**	**11,523**	**2.12**	**8.38**	**136.2**	**31.40**
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**
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**

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					
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**	**46.16**
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**	**168.1**	**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**	**168.7**	**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	160.6	13,259	1.58	6.15	164.1	43.51
West Virginia	108.9	13,079	2.44	8.13	153.7	40.21
Total	**269.5**	**13,186**	**1.92**	**6.95**	**159.9**	**42.18**
Year to Date						
Pennsylvania	496.0	13,258	1.62	6.42	167.4	44.37
West Virginia	309.0	13,262	2.23	7.55	155.9	41.34
Total	**805.0**	**13,259**	**1.86**	**6.85**	**162.9**	**43.21**
	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**
1987						
Virginia	69.6	13,176	1.15	8.08	192.3	50.67
West Virginia	85.6	13,155	1.19	7.99	199.6	52.53
Canada	1.5	13,100	1.80	8.50	146.5	38.38
Colombia	9.2	11,825	.67	7.30	153.8	36.37
Total	**165.9**	**13,090**	**1.15**	**7.99**	**193.8**	**50.73**
1988						
Virginia	9.7	12,993	1.10	8.30	198.7	51.63
West Virginia	54.0	13,071	1.23	7.92	210.9	55.13
Canada	5.6	13,452	1.10	3.10	146.1	39.31
Total	**69.3**	**13,091**	**1.20**	**7.58**	**203.8**	**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**	**49.61**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants by Origin, 1980-1993 (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						
1991						
West Virginia	117.5	13,384	0.69	6.24	180.6	48.34
Venezuela	207.1	12,969	.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**	**13,096**	**.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
Colombia	27.4	12,948	.59	6.30	148.9	38.56
Venezuela	25.2	12,919	.53	7.30	139.8	36.12
Total	**67.0**	**13,017**	**.58**	**7.06**	**151.2**	**39.36**
Year to Date						
West Virginia	57.6	13,238	.75	7.40	171.7	45.45
Colombia	52.1	12,861	.64	7.49	150.0	38.59
Venezuela	51.7	12,918	.60	5.85	139.3	36.00
Total	**161.5**	**13,014**	**.66**	**6.93**	**154.5**	**40.21**
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	13,463	1.21	6.88	211.7	57.01
West Virginia	365.3	13,262	1.23	8.02	187.9	49.84
Total	**971.0**	**13,363**	**1.22**	**7.42**	**200.4**	**53.56**
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	502.6	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	**1,065.6**	**13,362**	**1.20**	**7.04**	**225.4**	**60.22**
1982						
Kentucky	.1	13,018	1.06	7.00	242.3	63.09
Pennsylvania	113.0	13,245	1.25	6.39	220.3	58.36
Virginia	534.4	13,481	.90	6.89	243.0	65.51
West Virginia	493.7	13,356	1.18	7.06	224.0	59.84
Total	**1,141.2**	**13,403**	**1.06**	**6.91**	**232.6**	**62.35**
1983						
Virginia	673.0	13,504	.97	6.51	216.7	58.52
West Virginia	549.1	13,427	1.11	6.87	208.4	55.97
Total	**1,222.1**	**13,469**	**1.03**	**6.67**	**213.0**	**57.37**
1984						
Virginia	735.2	13,430	.96	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**	**6.69**	**196.4**	**53.55**

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						
1986						
Virginia	530.1	13,545	1.04	6.03	198.9	53.87
West Virginia	258.0	13,333	1.05	7.31	185.8	49.56
Total	**788.1**	**13,476**	**1.04**	**6.45**	**194.6**	**52.46**
1987						
Virginia	647.2	13,594	1.01	5.96	194.2	52.81
West Virginia	146.9	13,268	1.07	8.69	184.8	49.04
Total	**794.1**	**13,534**	**1.03**	**6.46**	**192.5**	**52.11**
1988						
Virginia	883.0	13,719	.83	5.87	172.2	47.26
West Virginia	1.4	13,222	.70	9.26	162.2	42.90
Total	**884.4**	**13,718**	**.83**	**5.87**	**172.2**	**47.25**
1989						
Kentucky	.3	12,997	.74	7.40	190.9	49.62
Virginia	1,121.6	13,878	.85	5.30	172.7	47.94
West Virginia	14.5	13,421	.87	7.32	173.3	46.51
Colombia	12.4	13,116	.57	4.20	175.8	46.12
Venezuela	28.6	13,149	.51	4.57	188.2	49.49
Total	**1,177.4**	**13,846**	**.84**	**5.29**	**173.1**	**47.94**
1990						
Kentucky	.1	13,045	.84	7.10	189.2	49.36
Virginia	962.9	14,108	.80	4.71	177.8	50.16
West Virginia	.4	13,079	.76	7.07	178.2	46.62
Total	**963.4**	**14,108**	**.80**	**4.71**	**177.8**	**50.16**
1991						
Kentucky	.2	13,063	.75	7.10	164.6	43.00
Virginia	734.7	14,183	.82	4.55	177.9	50 46
West Virginia	.1	12,860	.73	8.20	177.0	45.52
Total	**735.0**	**14,182**	**.82**	**4.55**	**177.9**	**50.46**
1992						
Virginia	805.6	14,185	.83	4.40	175.9	49.90
West Virginia	35.3	13,875	.64	5.71	170.8	47.40
Total	**840.9**	**14,172**	**.82**	**4.46**	**175.7**	**49.80**
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**
July - September						
Virginia	24.1	13,979	.78	4.86	179.0	50.04
Total	**24.1**	**13,979**	**.78**	**4.86**	**179.0**	**50.04**
Year to Date						
Virginia	565.6	14,153	.80	4.52	179.3	50.74
West Virginia	7.2	13,648	.64	5.91	174.6	47.65
Total	**572.8**	**14,147**	**.80**	**4.53**	**179.2**	**50.70**
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**

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						
1986						
Kentucky	166.0	12,878	0.94	7.53	167.1	43.03
Virginia	248.7	12,896	.86	9.07	169.3	43.66
Total	**414.8**	**12,889**	**.89**	**8.45**	**168.4**	**43.41**
1987						
Kentucky	264.9	12,976	.79	7.75	165.1	42.84
Virginia	151.8	12,863	.83	9.05	163.0	41.94
Total	**416.7**	**12,935**	**.81**	**8.23**	**164.3**	**42.51**
1988						
Kentucky	461.6	12,905	.81	7.11	171.5	44.27
Total	**461.6**	**12,905**	**.81**	**7.11**	**171.5**	**44.27**
1989						
Kentucky	404.1	12,389	.95	8.93	177.0	43.85
Virginia	32.9	12,374	1.08	9.18	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	9.96	152.5	37.64
Total	**92.5**	**12,341**	**1.29**	**9.96**	**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	95.1	12,191	1.77	10.39	184.0	44.85
Total	**95.1**	**12,191**	**1.77**	**10.39**	**184.0**	**44.85**
Year to Date						
Kentucky	121.9	12,142	1.83	10.79	181.5	44.07
Virginia	27.9	12,300	.87	11.63	165.4	40.70
Total	**149.8**	**12,172**	**1.65**	**10.94**	**178.4**	**43.44**
Company and Plant: Savannah Electric and Power, Port Wentworth						
1980						
Kentucky	255.4	12,165	0.84	11.92	165.4	40.23
Tennessee	68.5	12,256	1.22	11.97	162.4	39.82
Virginia	256.2	12,328	.97	11.65	161.3	39.77
Total	**580.1**	**12,248**	**.94**	**11.81**	**163.2**	**39.98**
1981						
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
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	87.5	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**

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						
1985						
Kentucky	39.2	12,800	0.91	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**	**12,648**	**.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	.96	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**	**12,882**	**.86**	**9.55**	**171.4**	**44.17**
July - September						
Kentucky	45.4	12,851	.97	9.90	176.1	45.25
Virginia	94.4	12,851	1.03	10.41	176.6	45.38
Total	**139.7**	**12,851**	**1.01**	**10.24**	**176.4**	**45.34**
Year to Date						
Kentucky	54.6	12,855	.98	9.42	174.5	44.87
Virginia	148.1	12,797	.98	10.18	172.2	44.07
West Virginia	5.1	12,738	.77	8.60	166.7	42.46
Total	**207.8**	**12,811**	**.96**	**9.94**	**172.7**	**44.24**
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**

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: Takoma Dept. of Public Utilities, Steam No.2						
1993						
January - March						
Montana	2.0	9,450	0.41	4.10	183.0	34.59
Washington	.7	10,800	.70	15.00	166.0	35.86
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						
Montana	4.0	9,509	.30	4.10	182.0	34.61
Washington	.6	10,861	.68	15.20	165.0	35.84
Canada	5.5	10,060	.46	12.30	178.0	35.81
Total	**10.2**	**9,893**	**.41**	**9.26**	**178.6**	**35.34**
Year to Date						
Montana	10.0	9,482	.37	4.10	182.6	34.63
Washington	1.6	10,833	.69	15.11	165.5	35.85
Canada	22.8	10,029	.48	12.68	179.9	36.09
Total	**34.4**	**9,906**	**.46**	**10.29**	**180.0**	**35.65**
Company and Plant: Tampa Electric, Big Bend[2]						
1980						
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**
1981						
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	11.16	162.7	37.53
Missouri	26.0	12,390	.65	8.56	191.7	47.50
Oklahoma	234.5	12,445	.64	8.19	202.7	50.46
Total	**2,849.6**	**11,591**	**2.74**	**10.96**	**166.0**	**38.47**
1982						
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**
1983						
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**
1984						
Colorado	32.2	11,876	.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	**5,106.9**	**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

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[3]						
1986						
Oklahoma	249.4	12,659	0.58	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**
1993						
July - September						
Illinois	35.2	11,194	.82	11.00	185.1	41.44
Total	**35.2**	**11,194**	**.82**	**11.00**	**185.1**	**41.44**
Year to Date						
Illinois	35.2	11,194	.82	11.00	185.1	41.44
Total	**35.2**	**11,194**	**.82**	**11.00**	**185.1**	**41.44**
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
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

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						
1993						
January - March						
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	302.1	11,503	2.41	8.52	173.6	39.94
Kentucky	727.8	12,453	1.99	8.01	196.2	48.87
Tennessee	83.0	12,699	1.13	7.42	203.0	51.57
West Virginia	88.9	13,194	2.61	7.99	209.6	55.31
Colombia	33.8	11,469	1.53	7.80	220.7	50.62
Total	**1,235.5**	**12,264**	**2.07**	**8.08**	**193.2**	**47.38**
Year to Date						
Illinois	1,078.9	11,280	2.74	8.94	173.5	39.14
Kentucky	2,067.0	12,465	2.08	7.80	192.2	47.92
Tennessee	224.7	12,784	1.09	6.81	205.1	52.43
Utah	186.5	11,586	.35	8.25	151.6	35.13
West Virginia	597.6	13,217	2.23	7.48	164.4	43.45
Colombia	33.8	11,469	1.53	7.80	220.7	50.62
Total	**4,188.6**	**12,237**	**2.14**	**8.02**	**182.7**	**44.71**
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**
1988						
Kentucky	743.4	12,895	1.11	6.00	236.6	61.03
Total	**743.4**	**12,895**	**1.11**	**6.00**	**236.6**	**61.03**
1989						
Kentucky	453.6	12,769	1.12	6.45	232.1	59.27
Total	**453.6**	**12,769**	**1.12**	**6.45**	**232.1**	**59.27**

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						
1980						
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**
1981						
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**
1982						
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**
1983						
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	224.2	12,618	1.17	7.22	221.7	55.95
Total	**224.2**	**12,618**	**1.17**	**7.22**	**221.7**	**55.95**
Year to Date						
Kentucky	591.8	12,759	1.18	6.60	223.8	57.12
Total	**591.8**	**12,759**	**1.18**	**6.60**	**223.8**	**57.12**
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**	**164.6**	**42.59**
1987						
Kentucky	752.0	12,723	1.02	9.08	153.5	39.06
Virginia	783.0	12,725	1.06	9.31	152.9	38.92
West Virginia	1,210.0	12,790	.80	9.74	150.7	38.55
Total	**2,745.0**	**12,753**	**.93**	**9.44**	**152.1**	**38.80**

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					
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	497.4	12,788	1.17	9.01	139.7	35.74
Virginia	157.3	13,124	1.21	8.95	147.6	38.75
West Virginia	102.6	13,119	1.29	9.03	143.3	37.59
Total	**757.4**	**12,902**	**1.19**	**9.00**	**141.9**	**36.61**
Year to Date						
Kentucky	1,470.5	12,704	1.04	8.83	140.5	35.70
Virginia	297.8	13,057	1.21	8.79	147.3	38.48
West Virginia	181.3	13,013	1.23	9.14	144.1	37.50
Total	**1,949.6**	**12,786**	**1.09**	**8.86**	**141.9**	**36.29**

[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.

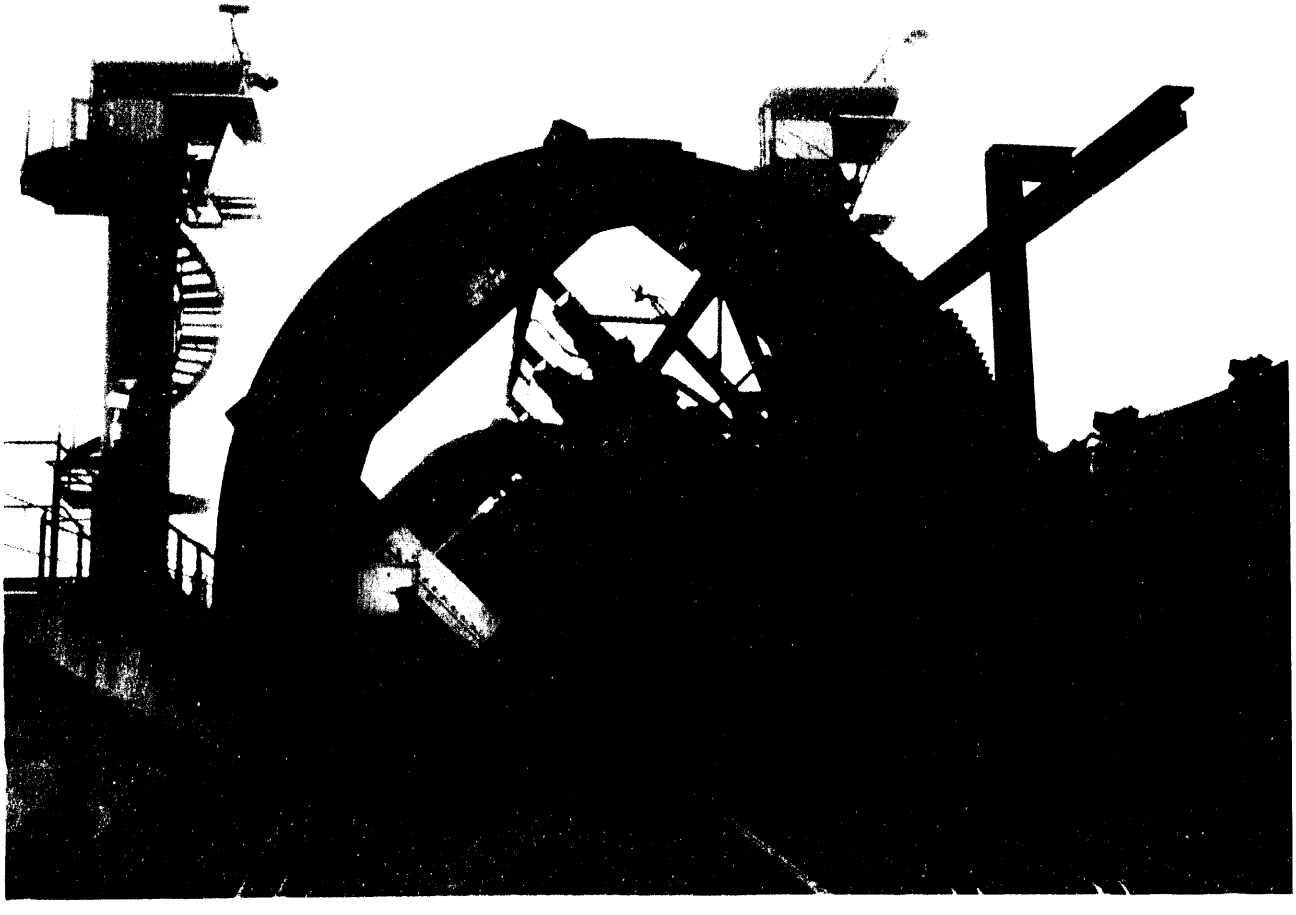
[3] Average cost data on coal delivered to Tampa Electric, Big Bend plant from the New Orleans transfer facility do not include the transportation cost of approximately $5 per short ton from New Orleans to Tampa.

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 conversion from Btu to joules is made by multiplying Btu by $1.055x10^3$, 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	192,932	21,489	149,582
October - December	202,900	557	29,114	178,401	18,521	158,963
Total	**807,680**	**2,006**		**729,586**	**77,581**	
1987 January - March	201,576	300	33,167	181,004	15,037	157,100
April - June	198,513	438	30,789	181,098	18,246	159,698
July - September	211,336	431	26,104	208,105	19,081	150,228
October - December	222,063	416	25,692	189,052	19,854	168,246
Total	**833,487**	**1,585**		**759,260**	**72,219**	
1988 January - March	214,903	492	33,352	200,295	14,570	159,011
April - June	205,609	533	32,730	186,640	22,589	157,222
July - September	219,196	397	28,449	216,520	25,121	140,006
October - December	222,359	514	27,594	198,173	23,923	143,710
Total	**862,066**	**1,936**		**801,627**	**86,203**	
1989 January - March	224,237	482	32,212	202,743	19,440	135,386
April - June	216,837	623	27,758	188,717	25,805	144,254
July - September	220,500	839	26,171	210,490	21,764	133,506
October - December	228,128	642	26,308	205,171	24,448	132,528
Total	**889,702**	**2,587**		**807,121**	**91,458**	
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
July - September	206,581	1,944	24,660	227,442	16,803	110,492
Total	**639,612**	**4,035**		**631,590**	**52,016**	

[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	181,501	8,806	16,335	1,463	208,105
October - December	159,328	9,140	18,555	2,030	189,052
Total	**651,263**	**33,527**	**68,198**	**6,272**	**759,260**
1988 January - March	170,559	9,396	18,521	1,818	200,295
April - June	159,671	9,558	16,135	1,276	186,640
July - September	189,186	9,510	16,259	1,565	216,520
October - December	168,568	9,537	18,259	1,809	198,173
Total	**687,983**	**38,000**	**69,175**	**6,468**	**801,627**
1989 January - March	173,776	9,261	18,039	1,667	202,743
April - June	161,757	9,403	16,521	1,037	188,717
July - September	184,271	9,079	15,994	1,146	210,490
October - December	175,906	9,006	18,514	1,745	205,171
Total	**695,710**	**36,749**	**69,068**	**5,595**	**807,121**
1990 January - March	168,227	9,112	17,792	1,741	196,872
April - June	165,595	8,886	16,392	1,148	192,020
July - September	192,013	8,596	16,551	1,309	218,469
October - December	175,917	8,675	18,511	1,902	205,004
Total	**701,752**	**35,269**	**69,246**	**6,100**	**812,366**
1991 January - March	171,722	7,521	17,797	1,822	198,863
April - June	165,550	7,326	15,549	957	189,381
July - September	188,815	7,962	16,376	1,027	214,180
October - December	174,502	7,902	18,685	1,723	202,812
Total	**700,590**	**30,712**	**68,406**	**5,529**	**805,236**
1992 January - March	173,410	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
July - September	202,433	7,222	16,719	1,069	227,442
Total	**554,912**	**21,435**	**50,867**	**4,376**	**631,590**

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	3,388	8,111	159,698	30,789	190,487
September 30	137,857	3,030	9,341	150,228	26,104	176,332
December 31	154,945	3,524	9,777	168,246	25,692	193,938
1988 March 31	147,511	3,681	7,819	159,011	33,352	192,363
June 30	146,251	3,413	7,557	157,222	32,730	189,952
September 30	129,573	2,610	7,824	140,006	28,449	168,456
December 31	132,909	2,846	7,955	143,710	27,594	171,305
1989 March 31	126,132	3,191	6,063	135,386	32,212	167,598
June 30	135,153	3,049	6,052	144,254	27,758	172,013
September 30	123,051	3,363	7,092	133,506	26,171	159,677
December 31	123,250	2,598	6,680	132,528	26,308	158,836
1990 March 31	136,185	3,339	6,336	145,859	31,841	177,700
June 30	146,881	3,392	6,725	156,998	33,471	190,469
September 30	135,999	2,834	7,804	146,637	30,535	177,172
December 31	141,671	3,020	7,907	152,598	30,317	182,915
1991 March 31	146,133	2,839	6,596	155,568	38,249	193,818
June 30	148,288	2,978	6,278	157,544	37,243	194,787
September 30	139,622	2,445	6,584	148,651	30,507	179,158
December 31	143,223	2,516	6,406	152,145	29,911	182,056
1992 March 31	145,178	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
September 30	102,306	2,300	5,886	110,492	24,660	135,152

[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	$46.98	$46.82	$46.86	$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	21,489	19,081	25,121	21,764	26,759	28,302	24,023	16,803
Price	$52.69	$50.06	$46.31	$46.12	$46.97	$46.54	$45.76	$44.86	$44.89
Imports									
Quantity	565	487	431	397	839	466	893	800	1,944
Price	$40.51	$39.57	$35.21	$29.51	$38.49	$35.33	$34.67	$37.95	$32.54
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	$36.86	$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	52,016
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	4,035
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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**2,709,537**	**3,192,375**	**4,503,381**	**6,235,367**	**10,008,806**	**-37.7**
Canada[1]	2,675,021	3,105,950	4,471,126	6,015,573	9,882,797	-39.1
Dominican Republic	981	22,581	20,731	23,710	52,530	-54.9
Jamaica	-	11,888	-	11,888	11,999	-.9
Mexico	33,223	51,000	10,861	182,813	60,378	202.8
Other[2]	312	956	663	1,383	1,102	25.5
South America Total	**1,095,576**	**1,262,460**	**1,522,191**	**4,050,628**	**4,724,845**	**-14.3**
Argentina	56,066	124,511	96,427	323,355	274,736	17.7
Brazil	1,039,292	1,119,363	1,405,857	3,702,656	4,393,367	-15.7
Chile	-	-	-	-	24,576	-
Other[2]	220	18,586	19,907	24,617	32,166	-23.5
Europe Total	**8,073,023**	**9,036,901**	**12,473,697**	**27,150,911**	**40,706,990**	**-33.3**
Albania	-	-	-	-	20,216	-
Belgium & Luxembourg	1,205,307	1,448,555	1,437,725	3,471,046	4,961,224	-30.0
Bulgaria	154,831	208,748	193,073	565,593	345,032	63.9
Denmark	-	95,883	1,049,338	304,756	2,970,926	-89.7
Finland	32,925	129,506	-	228,454	186,118	22.7
France	791,642	595,263	1,484,561	2,988,670	5,910,600	-49.4
Germany, FR	61,068	76,809	309,890	429,500	826,838	-48.1
Ireland	111,047	320,135	403,502	656,393	994,664	-34.0
Italy	1,673,169	1,638,019	1,637,828	4,925,601	6,566,161	-25.0
Netherlands	1,249,861	1,334,189	2,104,821	4,320,887	6,496,747	-33.5
Norway	31,957	23,268	43,225	77,925	87,781	-11.2
Portugal	336,520	476,094	391,217	1,307,745	1,169,180	11.9
Romania	140,267	88,431	149,561	509,541	516,558	-1.4
Spain	827,020	1,107,244	1,014,503	2,757,301	3,264,596	-15.5
Sweden	147,835	151,272	307,137	450,665	611,561	-26.3
Turkey	351,922	357,732	613,210	1,062,589	1,353,868	-21.5
United Kingdom	925,497	985,753	1,191,,00	3,023,238	3,890,438	-22.3
Yugoslavia	32,040	-	127,570	70,892	505,329	-86.0
Other[2]	115	-	14,836	115	29,153	-99.6
Asia Total	**4,326,003**	**4,016,295**	**4,997,186**	**12,914,473**	**13,783,704**	**-6.3**
China (Taiwan)	909,109	626,755	1,048,492	2,252,506	2,476,200	-9.0
Hong Kong	-	-	107,769	-	212,023	-
Israel	222,210	223,961	243,031	556,710	636,746	-12.6
Japan	2,598,260	2,239,535	2,825,208	7,958,159	8,345,847	-4.6
Korea, Republic of	595,773	924,614	771,558	2,144,719	2,108,343	1.7
Other[2]	651	1,430	1,128	2,379	4,545	-47.7
Oceania & Australia Total	**626**	**-**	**17**	**936**	**276**	**239.1**
Africa Total	**598,369**	**586,912**	**526,605**	**1,664,144**	**1,737,249**	**-4.2**
Algeria	56,796	99,923	114,754	264,172	399,680	-33.9
Egypt	315,378	111,039	225,240	586,376	593,502	-1.2
Morocco	142,628	175,749	123,589	452,497	480,256	-5.8
South Africa, Rep of	66,068	179,228	63,022	322,627	263,811	22.3
Other[2]	17,499	20,973	-	38,472	-	-
Total	**16,803,136**	**18,094,943**	**24,023,077**	**52,016,459**	**70,961,870**	**-26.7**

[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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**$37.17**	**$37.59**	**$36.60**	**$37.73**	**$36.58**	**3.1**
Canada[1]	37.03	37.39	36.56	37.38	36.49	2.4
Dominican Republic	-	40.34	40.89	40.37	40.60	-.6
Mexico	48.22	48.08	43.24	48.69	48.41	.6
Other[2]	38.08	38.71	43.34	39.28	40.79	-3.7
South America Total	**46.87**	**48.75**	**49.87**	**48.41**	**50.32**	**-3.8**
Argentina	48.20	47.99	50.92	47.86	50.11	-4.5
Brazil	46.80	48.86	49.82	48.47	50.35	-3.7
Chile	-	-	-	-	52.23	-
Other[2]	44.99	44.18	43.85	43.85	40.53	8.2
Europe Total	**47.92**	**47.92**	**46.79**	**47.64**	**46.91**	**1.6**
Belgium & Luxembourg	46.74	48.54	49.59	47.74	48.87	-2.3
Bulgaria	46.75	45.99	47.41	46.40	48.01	-3.4
Denmark	-	40.00	35.36	38.53	36.32	6.1
Finland	46.37	44.46	-	43.66	44.99	-3.0
France	47.53	48.94	44.41	45.88	42.93	6.9
Germany, FR	37.25	47.57	43.25	42.49	42.21	.7
Ireland	39.40	37.00	40.75	39.35	40.17	-2.0
Italy	48.79	49.51	50.03	48.97	50.26	-2.6
Netherlands	48.33	47.39	46.79	48.35	47.80	1.2
Norway	-	-	54.24	-	52.86	-
Portugal	41.87	40.14	45.20	41.48	44.89	-7.6
Romania	40.00	38.90	41.40	40.19	47.21	-14.9
Spain	51.79	51.74	52.98	51.68	51.37	.6
Sweden	51.13	50.43	51.90	50.89	51.80	-1.8
Turkey	47.09	46.89	49.68	47.14	50.32	-6.3
United Kingdom	50.64	50.77	49.33	50.56	50.11	.9
Yugoslavia	32.00	-	51.10	43.65	48.93	-10.8
Other[2]	44.91	-	40.87	44.91	40.84	10.0
Asia Total	**44.02**	**45.82**	**46.38**	**45.11**	**47.30**	**-4.6**
China (Taiwan)	43.12	44.95	45.85	43.97	45.84	-4.1
Hong Kong	-	-	41.39	-	41.40	-
Israel	39.53	37.34	42.92	38.48	43.35	-11.2
Japan	43.99	46.22	46.29	45.27	47.66	-5.0
Korea, Republic of	47.20	47.53	49.19	47.45	49.41	-4.0
Other[2]	40.26	39.97	38.00	41.12	42.92	-4.2
Oceania & Australia Total	**38.00**	**-**	**-**	**37.99**	**38.08**	**-.2**
Africa Total	**46.60**	**46.81**	**48.11**	**46.75**	**47.46**	**-1.5**
Algeria	46.65	49.32	50.65	48.86	51.02	-4.2
Egypt	49.96	49.53	51.57	50.21	50.83	-1.2
Morocco	37.36	37.27	36.82	37.34	37.18	.4
South Africa, Rep of	51.53	53.14	53.27	52.20	53.22	-1.9
Other[2]	42.50	46.50	-	44.68	-	-
Total[3]	**45.05**	**45.69**	**45.02**	**45.86**	**45.78**	**.2**
U.S. Total[4]	**44.88**	**45.66**	**44.86**	**45.79**	**45.66**	**.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.

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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**1,445,194**	**1,522,615**	**2,887,169**	**3,040,158**	**6,762,422**	**-55.0**
Canada[1]	1,436,558	1,474,942	2,855,105	2,962,523	6,669,357	-55.6
Dominican Republic	981	22,581	20,731	23,710	52,530	-54.9
Jamaica	-	11,888	-	11,888	11,999	-.9
Mexico	7,343	12,268	10,670	40,674	27,434	48.3
Other[2]	312	936	663	1,363	1,102	23.7
South America Total	**802**	**24,592**	**121,425**	**179,529**	**160,223**	**12.0**
Argentina	582	907	539	1,550	976	58.8
Brazil	-	5,099	100,979	153,362	127,013	20.7
Chile	-	-	-	-	68	-
Other[2]	220	18,586	19,907	24,617	32,166	-23.5
Europe Total	**2,164,910**	**2,371,403**	**5,324,767**	**8,320,123**	**17,457,751**	**-52.3**
Belgium & Luxembourg	345,146	248,336	328,677	783,771	1,359,872	-42.4
Denmark	-	-	1,049,338	208,873	2,970,926	-93.0
France	86,034	-	580,791	789,504	2,949,582	-73.2
Germany, FR	61,068	11,874	167,574	276,558	602,599	-54.1
Ireland	111,047	320,135	403,502	656,393	994,664	-34.0
Italy	440,353	432,291	420,979	1,453,460	2,093,410	-30.6
Netherlands	353,297	561,493	1,209,445	1,547,183	3,019,875	-48.8
Norway	5,878	12,048	6,544	23,021	18,994	21.2
Portugal	336,520	430,206	349,269	1,217,867	1,046,696	16.4
Romania	140,267	-	-	250,671	-	-
Spain	232,771	248,986	352,191	672,572	1,332,775	-49.5
Sweden	-	-	-	-	224	-
Turkey	-	-	-	283	286	-1.0
United Kingdom	20,374	106,034	394,695	407,812	1,006,086	-59.5
Yugoslavia	32,040	-	61,554	32,040	61,554	-47.9
Other[2]	115	-	208	115	208	-44.7
Asia Total	**2,295,344**	**1,549,053**	**2,241,566**	**5,828,060**	**5,175,109**	**12.6**
China (Taiwan)	796,060	626,755	949,363	2,058,960	2,191,498	-6.0
Hong Kong	-	-	107,769	-	212,023	-
Israel	222,210	223,961	243,031	556,710	507,086	9.8
Japan	1,118,022	465,497	777,693	2,662,689	1,729,013	54.0
Korea, Republic of	156,401	231,410	162,582	547,322	530,944	3.1
Other[2]	651	1,430	1,128	2,379	4,545	-47.7
Oceania & Australia Total	**626**	**-**	**17**	**936**	**276**	**239.1**
Africa Total	**142,628**	**175,749**	**86,332**	**452,497**	**442,999**	**2.1**
Morocco	142,628	175,749	86,332	452,497	442,999	2.1
Total	**6,049,504**	**5,643,412**	**10,661,276**	**17,821,303**	**29,998,780**	**-40.6**

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

[2] Includes countries with exports less than or equal to 50,000 short tons (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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**$34.61**	**$35.28**	**$34.36**	**$35.04**	**$34.69**	**1.0**
Canada[1]	34.59	35.15	34.28	34.86	34.62	.7
Dominican Republic	-	40.34	40.89	40.37	40.60	-.6
Mexico	39.98	40.33	43.24	44.45	41.80	6.3
Other[2]	38.08	38.71	43.34	39.28	40.79	-3.7
South America Total	**40.13**	**43.81**	**47.51**	**44.69**	**46.43**	**-3.7**
Argentina	37.96	41.19	-	40.05	45.04	-11.1
Brazil	-	-	47.72	44.81	47.22	-5.1
Chile	-	-	-	-	45.18	-
Other[2]	44.99	44.18	43.85	43.85	40.53	8.2
Europe Total	**41.37**	**40.87**	**40.41**	**41.16**	**40.62**	**1.3**
Belgium & Luxembourg	37.55	35.50	40.04	37.70	40.27	-6.4
Denmark	-	-	35.36	37.85	36.32	4.2
France	34.71	-	37.28	35.08	37.29	-5.9
Germany, FR	37.25	31.53	36.82	37.69	39.13	-3.7
Ireland	39.40	37.00	40.75	39.35	40.17	-2.0
Italy	44.68	45.23	43.88	44.58	45.39	-1.8
Netherlands	42.88	42.94	43.42	43.80	43.20	1.4
Portugal	41.87	39.77	44.55	41.47	44.43	-6.7
Romania	40.00	-	-	40.00	-	-
Spain	50.13	40.79	43.98	43.22	41.97	3.0
Sweden	-	-	-	-	38.08	-
Turkey	-	-	-	45.02	45.00	.1
United Kingdom	52.76	41.96	43.10	44.05	42.84	2.8
Yugoslavia	32.00	-	-	32.00	-	-
Other[2]	44.91	-	46.32	44.91	46.32	-3.0
Asia Total	**39.81**	**41.49**	**42.30**	**40.47**	**42.79**	**-5.4**
China (Taiwan)	42.34	44.95	45.36	43.46	45.25	-4.0
Hong Kong	-	-	41.39	-	41.40	-
Israel	39.53	37.34	42.92	38.48	43.13	-10.8
Japan	38.23	40.27	39.32	38.99	40.04	-2.6
Korea, Republic of	38.57	38.58	38.40	38.48	41.82	-8.0
Other[2]	40.26	39.97	38.00	41.12	42.92	-4.2
Oceania & Australia Total	**38.00**	-	-	**37.99**	**38.08**	**-.2**
Africa Total	**37.36**	**37.27**	**36.43**	**37.34**	**37.13**	**.5**
Morocco	37.36	37.27	36.43	37.34	37.13	.5
Total[3]	**39.03**	**39.48**	**39.21**	**39.84**	**39.64**	**.5**
U.S. Total[4]	**38.89**	**39.95**	**39.09**	**39.84**	**39.44**	**1.0**

[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.

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

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

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

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

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

Continent and Country of Destination	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**1,264,343**	**1,669,760**	**1,616,212**	**3,195,209**	**3,246,384**	**-1.6**
Canada[1]	1,238,463	1,631,008	1,616,021	3,053,050	3,213,440	-5.0
Mexico	25,880	38,732	191	142,139	32,944	331.5
Other[2]	-	20	-	20	-	-
South America Total	**1,094,776**	**1,237,868**	**1,400,766**	**3,871,099**	**4,564,622**	**-15.2**
Argentina	55,484	123,604	95,888	321,805	273,760	17.6
Brazil	1,039,292	1,114,264	1,304,878	3,549,294	4,266,354	-16.8
Chile	-	-	-	-	24,508	-
Europe Total	**5,908,113**	**6,665,496**	**7,148,930**	**18,830,788**	**23,249,239**	**-19.0**
Albania	-	-	-	-	20,216	-
Belgium & Luxembourg	860,161	1,200,219	1,109,048	2,687,275	3,601,352	-25.4
Bulgaria	154,831	208,748	193,073	565,593	345,032	63.9
Denmark	-	95,883	-	95,883	-	-
Finland	32,925	129,506	-	228,454	186,118	22.7
France	705,608	595,263	903,770	2,199,166	2,961,018	-25.7
Germany, FR	-	64,935	142,316	152,942	224,239	-31.8
Italy	1,232,816	1,205,728	1,216,849	3,472,141	4,472,751	-22.4
Netherlands	896,564	772,696	895,376	2,773,704	3,476,872	-20.2
Norway	26,079	11,220	36,681	54,904	68,787	-20.2
Portugal	-	45,888	41,948	89,878	122,484	-26.6
Romania	-	88,431	149,561	258,870	516,558	-49.9
Spain	594,249	858,258	662,312	2,084,729	1,931,821	7.9
Sweden	147,835	151,272	307,137	450,665	611,337	-26.3
Turkey	351,922	357,732	613,210	1,062,306	1,353,582	-21.5
United Kingdom	905,123	879,719	797,005	2,615,426	2,884,352	-9.3
Yugoslavia	-	-	66,016	38,852	443,775	-91.2
Other[2]	-	-	14,628	-	28,945	-
Asia Total	**2,030,659**	**2,467,242**	**2,755,620**	**7,066,413**	**8,608,595**	**-17.7**
China (Taiwan)	111,049	-	99,129	193,546	284,702	-32.0
Israel	-	-	-	-	129,660	-
Japan	1,480,238	1,774,038	2,047,515	5,295,470	6,616,834	-20.0
Korea, Republic of	439,372	693,204	608,976	1,597,397	1,577,399	1.3
Africa Total	**455,741**	**411,163**	**440,273**	**1,211,647**	**1,294,250**	**-6.4**
Algeria	56,796	99,923	114,754	264,172	399,680	-33.9
Egypt	315,378	111,039	225,240	586,376	593,502	-1.2
Morocco	-	-	37,257	-	37,257	-
South Africa, Rep of	66,068	179,228	63,022	322,627	263,811	22.3
Other[2]	17,499	20,973	-	38,472	-	-
Total	**10,753,632**	**12,451,531**	**13,361,801**	**34,195,156**	**40,963,090**	**-16.5**

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

[2] Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**$40.01**	**$39.48**	**$40.54**	**$40.12**	**$40.47**	**-0.9**
Canada[1]	39.79	39.22	40.54	39.66	40.34	-1.7
Mexico	50.48	50.48	-	49.89	52.82	-5.5
South America Total	**46.88**	**48.78**	**50.04**	**48.56**	**50.43**	**-3.7**
Argentina	48.29	48.04	50.92	47.89	50.12	-4.4
Brazil	46.80	48.86	49.98	48.62	50.44	-3.6
Chile	-	-	-	-	52.25	-
Europe Total	**50.12**	**50.19**	**51.31**	**50.35**	**51.46**	**-2.2**
Belgium & Luxembourg	50.43	51.24	52.42	50.73	52.12	-2.7
Bulgaria	46.75	45.99	47.41	46.40	48.01	-3.4
Denmark	-	40.00	-	40.00	-	-
Finland	46.37	44.46	-	43.66	44.99	-3.0
France	49.09	48.94	48.99	49.76	48.61	2.4
Germany, FR	-	50.50	50.81	51.15	50.47	1.3
Italy	50.26	51.05	52.28	50.81	52.61	-3.4
Netherlands	50.48	50.61	51.34	50.89	51.79	-1.7
Norway	-	-	54.24	-	52.86	-
Portugal	-	43.68	50.57	41.70	48.87	-14.7
Romania	-	38.90	41.40	40.47	47.21	-14.3
Spain	51.94	52.15	53.22	52.31	53.67	-2.5
Sweden	51.13	50.43	51.90	50.88	51.80	-1.8
Turkey	47.09	46.89	49.68	47.14	50.32	-6.3
United Kingdom	50.59	51.83	52.41	51.58	52.56	-1.9
Yugoslavia	-	-	51.10	53.25	48.93	8.8
Other[2]	-	-	40.79	-	40.79	-
Asia Total	**48.94**	**48.61**	**49.69**	**49.00**	**50.01**	**-2.0**
China (Taiwan)	48.72	-	50.58	49.42	50.38	-1.9
Israel	-	-	-	-	44.24	-
Japan	48.54	47.84	48.94	48.51	49.65	-2.3
Korea, Republic of	50.27	50.52	52.07	50.53	51.96	-2.8
Africa Total	**49.49**	**50.90**	**50.00**	**50.27**	**51.00**	**-1.4**
Algeria	46.65	49.32	50.65	48.86	51.02	-4.2
Egypt	49.96	49.53	51.57	50.21	50.83	-1.2
Morocco	-	-	37.72	-	37.72	-
South Africa, Rep of	51.53	53.14	53.27	52.20	53.22	-1.9
Other[2]	42.50	46.50	-	44.68	-	-
Total[3]	**48.34**	**48.32**	**49.51**	**48.90**	**50.15**	**-2.5**
U.S. Total[4]	**48.25**	**48.24**	**49.47**	**48.89**	**50.22**	**-2.6**

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

[2] Includes countries with exports less than or equal to 50,000 short tons in 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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**253,255**	**251,440**	**195,484**	**662,699**	**660,337**	**0.4**
Canada	251,854	250,851	195,484	660,699	660,337	.1
Guatemala	4	-	-	4	-	-
Mexico	1,397	589	-	1,986	-	-
South America Total	**1,565,290**	**580,087**	**490,627**	**2,868,018**	**1,406,358**	**103.9**
Colombia	1,234,553	430,560	433,483	2,165,925	1,141,218	89.8
Venezuela	330,727	149,527	47,144	702,093	265,140	164.8
Europe Total	**-**	**2**	**81**	**2**	**81**	**-97.5**
Poland	-	2	-	2	-	-
United Kingdom	-	-	81	-	81	-
Asia Total	**100,209**	**103,968**	**102,905**	**424,055**	**230,038**	**84.3**
China (Mainland)	-	-	258	-	258	-
Hong Kong	-	-	-	-	1	-
Indonesia	100,209	103,968	102,647	424,055	229,779	84.5
Oceania & Australia Total	**24,890**	**48,804**	**21,016**	**73,694**	**65,646**	**12.3**
Australia	20,013	48,804	21,016	68,817	65,646	4.8
New Zealand	4,877	-	-	4,877	-	-
Africa Total	**-**	**6,848**	**-**	**6,848**	**-**	**-**
South Africa, Rep of	-	6,848	-	6,848	-	-
Total	**1,943,634**	**991,149**	**800,113**	**4,035,306**	**2,362,460**	**70.8**

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	July - September 1993	April - June 1993	July - September 1992	Year to date		
				1993	1992	Percent Change
North America Total	**$35.13**	**$30.91**	**$28.55**	**$31.14**	**$28.12**	**10.7**
Canada	35.19	30.93	28.55	31.17	28.12	10.8
Mexico	23.41	23.22	-	23.35	-	-
South America Total	**30.51**	**32.70**	**36.36**	**31.28**	**37.69**	**-17.0**
Colombia	29.90	31.95	35.94	30.80	36.32	-15.2
Venezuela	32.99	34.87	40.26	32.80	43.58	-24.7
Europe Total	**-**	**-**	**37.49**	**-**	**37.49**	**-**
United Kingdom	-	-	37.49	-	37.49	-
Asia Total	**50.35**	**50.37**	**50.07**	**46.50**	**45.13**	**3.0**
Indonesia	50.35	50.37	50.07	46.50	45.13	3.0
Oceania & Australia Total	**36.76**	**33.78**	**37.11**	**34.65**	**40.81**	**-15.1**
Australia	36.76	33.78	37.11	34.65	40.81	-15.1
Total[1]	**32.18**	**34.29**	**36.64**	**32.96**	**36.07**	**-8.6**
U.S. Total[2]	**32.54**	**35.57**	**37.95**	**33.64**	**37.07**	**-9.3**

[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.

Appendix C

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 (Census Bureau), 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 6 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 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 2,952 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 = (Sb - Se (change in stocks)) + R. Next, stock change at the State level is equated to the stock change for that State as reported on Form EIA-3, receipts at the State level are derived as described in Section 3, and a computed consumption is derived using the same equation for each State. Finally, the quarterly consumption (C) at the State level is equated to the maximum of the computed consumption at the State level, as previously described, and the quarterly consumption for that State as reported on Form EIA-3. This process ensures that State-level consumption for the ***other industrial plants*** sector is always greater than or equal to the ***manufacturing*** sector consumption for that State. Total quarterly consumption for the ***other industrial plants*** sector is computed by summing the quarterly State-level consumption figures.

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

Monthly Data

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

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

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

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

Given the quarterly consumption for the ***other industrial plants*** sector (C), the monthly consumption for the sector (Cm) is estimated for each month in the quarter as Cm = (Cm3/C3) x C where Cm3/C3 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; Internation 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	*
Stocks[1] (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-6, "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	23.269	22.734	23.107	22.426	23.084
Consumption	21.405	22.060	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	17.852	18.166	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	21.462
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	26.176	26.231	26.300	26.410	26.320	26.306
Coal Coke	24.800	24.800	24.800	24.800	24.800	24.800	24.800

Coal Rank Sector	1987	1988	1989	1990	1991	1992	1993
Anthracite							
Production	23.108	23.266	23.385	22.574	22.573	22.572	22.571
Consumption	22.435	22.423	22.623	21.668	21.410	21.423	21.278
Non-electric utility users	26.293	26.021	27.196	25.199	25.268	24.617	24.660
Electric utilities	16.962	17.312	16.310	16.140	15.858	16.944	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	21.643	21.672
Consumption	21.514	21.324	21.266	21.330	21.146	21.142	21.164
Residential and commercial	22.800	23.135	22.917	22.678	22.635	22.768	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	22.242	22.305
Electric utilities	21.143	20.905	20.854	20.935	20.761	20.792	22.809
Imports	25.000	25.000	25.000	25.000	25.000	25.000	25.000
Exports	26.304	26.306	26.166	26.207	26.192	26.165	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

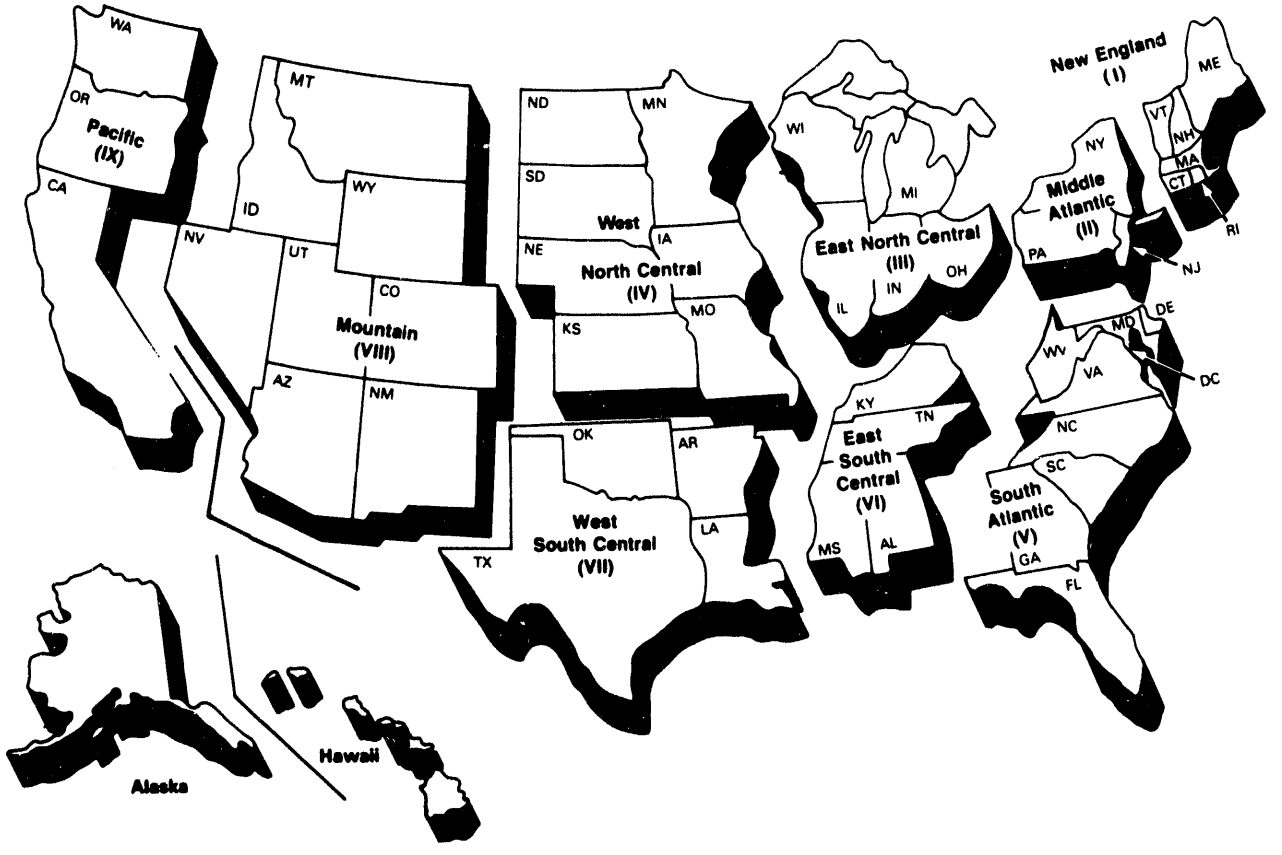
Blast Furnace: A furnace in which solid fuel (coke) is burned with an air blast to smelt ore.

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.

***Pennslyvania 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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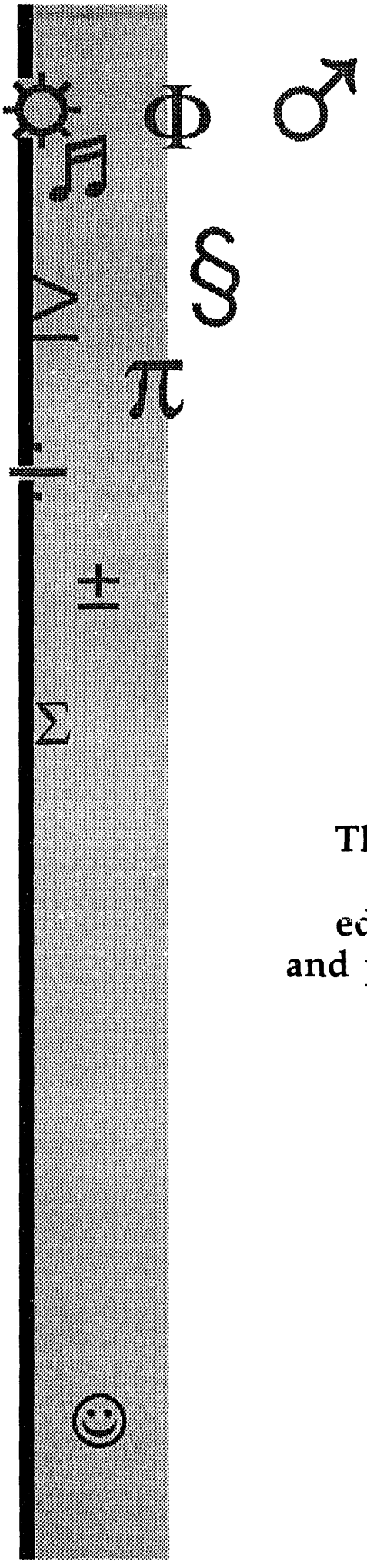

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