Quarterly Coal Report January-March 1993

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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 January through March 1993 and aggregated quarterly historical data for 1984 through the fourth quarter of 1992. Appendix A displays, from 1980 on, detailed quarterly historical coal imports data, as specified in Section 202 of the Energy Policy and Conservation Amendments Act of 1985 (Public Law 99-58). Appendix B gives selected quarterly tables converted to metric tons.

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

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

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 242 million short tons of coal in the first quarter of 1993 (Table 1), a decrease of 6 percent (14 million short tons) from the amount produced during the first quarter of 1992. The decrease was due to a decline in production east of the Mississippi River. All major coal-producing States in this region had lower coal production levels led by West Virginia, which produced 5 million short tons less coal.

The principal reasons for the overall drop in coal output compared to a year earlier were: a decrease in demand for U.S. coal in foreign markets; a slower rate of producer/distributor stock build-up; and a drawdown of electric utility coal stocks.

Distribution of U.S. coal in the first quarter of 1993 was 10 million short tons lower than in the first quarter of 1992, with 5 million short tons less distributed to both electric utilities and overseas markets (Table 7).

The amount of coal received by domestic consumers in the first quarter of 1993 totaled 217 million short tons. This was 2 million short tons less than in the first quarter of 1992, due to a decrease in coal demand from electric utilities and coke plants (Table 28). Compared with the first quarter of 1992, the average price of coal delivered to electric utilities and to manufacturing plants dropped 3 percent and 2 percent, respectively, while the average price of coal delivered to coke plants went up 1 percent. *The average price of coal delivered to electric utilities during the first quarter of 1993 was \$28.65 per short ton, the lowest value since the first quarter of 1980 (Table 29).*

Coal consumption in the first quarter of 1993 was 230 million short tons, 4 percent higher than in the first quarter of 1992, due primarily to a 5-percent increase in consumption at electric utility plants (Table 45). Most of this increase occurred in the South Atlantic, East South Central, and West South Central Census Divisions, where coal-fired generation was used to meet the elevated electricity demand and to substitute for the decline in nuclear-powered generation.

Total consumer stocks, at 153 million short tons, and electric utility stocks, at 144 million short tons, were at their lowest quarterly level since the end of 1989 (Table 52). Producer and distributor stocks totaled 38 million short tons, the lowest first quarter level since 1990 (Table 59).

U.S. coal exports totaled 19 million short tons, 6 million short tons less than in the first quarter of 1992, and the lowest quarterly level since 1988 (Table 14). The decline was primarily due to a 1-million-short-ton drop in exports to each of the following destinations: Italy, France, Belgium and Luxembourg, and Canada. The leading destinations for U.S. coal exports were the Netherlands, Japan, Italy, France, and Brazil, together receiving 56 percent of the total (Table 16). Coal exports for the first quarter of 1993 were valued at \$801 million, based on an average price of \$42.46 per short ton (Table 17). The Customs District of Norfolk, Virginia, handled 57 percent of all coal exported during the quarter (Table 22).

Steam coal exports totaled 7 million short tons, a decrease of 30 percent from the level a year earlier (Table 18). Canada, Denmark, and France were primarily responsible for the decrease. The six leading destinations (Japan, France, Taiwan, Denmark, the Netherlands, and Italy) accounted for 59 percent of all steam coal exports. Metallurgical coal exports amounted to 12 million short tons, a 20-percent decrease from a year earlier (Table 20). Japan, Italy, Belgium and Luxembourg, accounted for most of this decline.

U.S. coal imports in the first quarter of 1993 reached 1.2 million short tons, a record level for any quarter and an increase of 79 percent over coal imports in the first quarter of 1992 (Table 14). Most of the increase was due to higher demand for imported coal from Colombia, by Jacksonville Electric Authority's St. Johns River Plant in Florida, and from Indonesia, by an independent power producer in Hawaii.

Sources: Energy Information Administration, *Electric Power Monthly*, June 1993 (DOE/EIA-0226(93/06)); *Quarterly Coal Report*, October - December 1985 (DOE/EIA-0121(85/4Q)).

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

Note: Each increment represents end-of-quarter data.
 Sources: Production: Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report" and Form EIA-7A, "Coal Production;" U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report;" and State mining agency coal production reports; Imports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 146;" Producer and Distributor Stocks: EIA, Form EIA-6, "Coal Distribution Report;" Exports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 646;" Consumption and Consumer Stocks: EIA, Form EIA-759, "Monthly Power Plant Report;" Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants;" Form EIA-6, "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	21,421	149,238	6,882
April - June	239,022	687	30,598	208,025	28,445	159,013	-1,628
July - September	243,060	925	28,848	232,026	23,991	147,165	1,566
October - December	251,468	708	29,000	226,163	26,949	146,087	-9
Total	980,729	2,851		889,699	100,815		6,811
1990 January - March	264,184	735	35,099	217,014	22,383	160,782	4,727
April - June	254,279	674	36,895	211,666	27,733	173,061	1,479
July - September	254,760	514	33,659	240,821	29,497	161,639	-387
October - December	255,853	776	33,418	225,978	26,191	168,210	-1,870
Total	1,029,076	2,699		895,480	105,804		3,949
1991 January - March	254,746	938	42,162	219,208	22,318	171,485	2,140
April - June	237,006	730	41,054	208,757	26,214	173,663	1,696
July - September	251,438	984	33,628	236,093	31,197	163,860	2,360
October - December	252,794	738	32,971	223,562	29,239	167,711	-2,464
Total	995,984	3,390		887,621	108,969		3,731
1992 January - March	256,673	679	39,853	220,531	24,731	168,632	4,287
April - June	243,425	1,043	40,513	210,052	27,010	173,267	2,113
July - September	249,677	882	35,198	237,658	26,481	161,878	3,124
October - December	250,475	1,199	33,993	224,031	24,294	163,691	2,741
Total	1,000,250	3,803		892,270	102,516		12,264
1993 January - March	242,460	1,213	38,319	229,695	18,870	152,659	1,816
Total	242,460	1,213		229,695	18,870		1,816

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

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

Figure 2. U.S. Coke Production, Imports, Consumption, Exports, and Stocks, 1985-1993

Note: Each increment represents end-of-quarter data.
 Sources: Production, Consumption, and Producer and Distributor Stocks: Energy Information Administration (EIA), Form EIA-8, "Coke Plant Report - Quarterly;" Exports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545;" Imports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145."

**Table 2. U.S. Coke Production, Imports, Consumption, Exports, and Stocks,
1985-1993**
(Thousand Short Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks ¹	Consumption ²	Exports
1985 January - March	7,159	226	3,471	7,484	146
April - June	7,550	160	3,279	7,555	347
July - September	7,096	92	3,217	6,923	327
October - December	6,632	100	2,553	7,094	302
Total	28,438	578		29,057	1,122
1986 January - March	7,145	91	2,319	7,330	140
April - June	7,061	129	2,174	7,088	247
July - September	5,315	17	2,141	5,033	332
October - December	5,396	92	2,066	5,278	285
Total	24,917	329		24,729	1,004
1987 January - March	5,719	80	1,853	5,863	149
April - June	6,661	209	1,546	7,063	113
July - September	6,886	342	1,436	7,187	151
October - December	7,038	291	1,064	7,540	161
Total	26,304	922		27,654	574
1988 January - March	7,103	606	956	7,643	174
April - June	7,288	630	1,140	7,400	335
July - September	7,274	746	1,271	7,672	216
October - December	7,279	706	1,583	7,305	368
Total	28,945	2,688		30,021	1,093
1989 January - March	7,063	687	1,167	7,992	173
April - June	7,134	929	1,264	7,708	259
July - September	6,870	546	1,763	6,684	234
October - December	6,978	149	1,919	6,551	420
Total	28,045	2,311		28,935	1,085
1990 January - March	7,096	167	1,965	7,085	132
April - June	6,961	148	1,929	7,001	144
July - September	6,701	278	1,840	6,929	140
October - December	6,859	171	1,918	6,795	157
Total	27,617	765		27,811	572
1991 January - March	5,967	168	2,093	5,920	40
April - June	5,706	277	2,003	5,800	273
July - September	6,256	432	2,172	6,275	244
October - December	6,117	222	2,107	6,221	183
Total	24,046	1,099		24,216	740
1992 January - March	5,892	508	2,101	6,290	116
April - June	5,850	430	2,027	6,156	157
July - September	5,837	333	2,055	5,897	245
October - December	5,831	468	1,883	6,347	124
Total	23,410	1,739		24,690	642
1993 January - March	5,711	360	1,678	6,181	95
Total	5,711	360		6,181	95

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. 1443	Black Lung Benefits Equity Act	Introduced on March 24, 1993. Referred to the House Ways and Means Committee.
S. 1060	1993 S. 1060	Introduced on May 28, 1993. Referred to the Senate Finance Committee.

H.R. 1443 would amend the Internal Revenue Code to permit a general business credit for businesses which mine metallurgical coal and are required to contribute to the United Mine Workers of America Combined Benefit Fund established by the Energy Policy Act of 1992. The proposed credit would equal the lesser of:

(1) a percentage of coal industry health benefit premiums, or (2) a percentage of the sale price of the coal.

S. 1060 is the Senate companion bill of H.R. 1443.

Federal Legislation Update

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

State Legislation Update

Alabama. House Bill 609, introduced on February 25, 1993, provides for the appropriation and disbursement of the proceeds from certain coal and lignite severance taxes. The bill was signed by the Governor on May 17, 1993.

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

30, 1993, passed by the Senate on May 17, 1993, and was sent to the Governor.

New State Legislation

Arkansas. Senate Bill 676, signed by the Governor on March 26, 1993, raises the production threshold for "small operator" to 300 thousand tons of coal per year from 100 thousand tons per year. The measure also addresses certain technical services for determining the likely hydrological consequences of coal mining and reclamation, and makes the small operator liable

for the expenses of making such a determination if coal production exceeds the allowable threshold.

Illinois. House Bill 1292, introduced on March 4, 1993, would amend the Coal Mining Act and the Mine Inspection Act by eliminating a requirement that mine examiners in mines where employees are covered by a collective bargaining agreement must be covered by a similar agreement.

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.

House Bill 1736, passed by the House on April 28, 1993, and sent to the Senate, 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.

Virginia. House Bill 1687 requires operators of underground coal mines to replace water supplies which have been interrupted, diminished, or contaminated by underground mining. The bill was signed by the Governor on March 25, 1993.

Industry Developments

Mining

UMWA Resumes Selective Strike. As contract talks remained stalled after nearly 7 months of intermittent negotiations, the United Mine Workers of America (UMWA) on May 10 resumed a selective strike against the Nation's leading coal companies. By July 27, the strike had escalated to include about 16 thousand UMWA miners in seven States. Collectively, the affected mines produced approximately 29 million short tons of coal per quarter in 1992. The amount of coal purchased on the spot market and the associated price have increased slightly since the selective strike resumed.

The UMWA and the Bituminous Coal Operators Association (BCOA) have been attempting since November 1992 to negotiate a new contract to replace the National Bituminous Coal Wage Agreement, a 5-year accord which was signed in 1988 and expired in February 1993. The BCOA represents the Nation's nine largest coal producers and the UMWA represents 60,000 miners in six Appalachian and Mid-Western States. When no new agreement was in place as the old contract expired on February 1, the union began a selective strike against 2 coal companies which idled more than 5 thousand miners at 22 mines in 4 States. The strike ended on March 2, when UMWA and BCOA officials announced that the 1988 accord would be extended for 60 days to permit further talks.

Although both sides initially expressed optimism that the new talks would be productive, the deadlock continued throughout the 60-day extension period and the walkouts resumed. The central issue in the dispute is job security for UMWA miners.

The UMWA notes that the life of a coal mine is limited by the amount of coal remaining to be mined and union officials argue that the miners are essentially working themselves out of a job with each ton of coal they extract. As a means of protecting miners from unemployment, the 1988 wage agreement between the UMWA and the BCOA included a provision obligating

the companies to offer 60 percent of the jobs in new mines to laid-off miners.

Union officials argue that the coal companies have evaded this obligation by engaging in "double breasting," a practice in which a parent company dissolves a unionized subsidiary when its mines are exhausted and creates non-unionized subsidiary to own and operate new mines. Since the wage agreement applies to the dissolved subsidiary rather than the parent or the new subsidiary, the new company can ignore the agreement in hiring miners.

UMWA officials charge that this practice violates the 1988 accord. Mine owners disagree, arguing that the union is free to organize the new companies. Moreover, company officials emphasize that they are willing to offer 60 percent of all new jobs to laid-off UMWA miners, but they want to reserve the right to hire whomever they wish for the first 40 percent of the new jobs.¹

Minerals Management Service Sets Rules On Royalties. The Interior Department's Minerals Management Service (MMS) has announced new guidelines for assessing royalties on renegotiated contracts involving Federal mineral leases. Agency officials estimate that up to \$400 million in unpaid royalties may be due on \$4.6 billion in contract settlements, and the new guidelines are intended to aid the agency in settling its backlog of royalty cases.

Royalties due the government from mineral leases are generally based upon the gross proceeds received by lessees from the sale of the coal, oil, gas, or other minerals they extract under the leases. However, where contracts between lessees and purchasers have been renegotiated, complex settlement terms often cause uncertainty as to the timing and amount of royalty payments due.

The MMS guidelines establish the policies the agency will follow in addressing four common settlement circumstances. Where the settlement involves a past pricing dispute, royalty will be due upon settlement and will be based upon the amount paid by the purchaser to settle the dispute. For contract buydowns, in which

¹ "2,000 Mine Workers Strike 3 Top Coal Producers," *New York Times* (New York, New York, May 11, 1993). "Mine Workers' Union Expands Strike to West Virginia," *New York Times* (New York, New York, May 19, 1993). "UMWA Ends Impasse, Strikes Arch, Amax and Ziegler," *The Energy Daily* (Washington, D.C., May 11, 1993).

the lessee receives a cash payment for agreeing to a lower price for future deliveries, royalty will be based upon the amount of the settlement and will be payable as future production occurs. For contract buyouts, where the purchaser pays the lessee a sum of money to terminate the obligation to purchase, no royalty will be due on the termination payment unless production continues under a successor contract with another purchaser during the original contract term. Finally, for settlements of take-or-pay contracts involving future deliveries for recoupment, royalty on the settlement payment will be due as recoupment deliveries are made.²

Amax and Cyprus Minerals Plan Merger. Amax Incorporated has announced plans to merge with the Cyprus Minerals Company. If the transaction is completed, the resulting new company, Cyprus-Amax, will be one of the world's largest mining companies. Cyprus Minerals is a major copper producer which also has extensive interests in lithium, coal, and natural gas. Amax is a major aluminum producer through its Alumax subsidiary and also produces coal, oil, gas, and gold.

Terms of the proposed agreement provide that Amax will first dispose of Alumax by spinning it off to Amax shareholders and will also divest itself of a portion of its gold subsidiary. Remaining Amax assets will be contributed to the new entity in return for approximately \$1.2 billion in Cyprus shares.³

New CSX Unit Will Promote Cumberland Region's Coal. CSX Transportation has announced the formation of a new business unit dedicated to improving the company's performance along the portions of its rail system serving coal mines located in northern West Virginia, Pennsylvania, and Maryland. The new unit, which has its headquarters in Cumberland, Maryland, began operations in mid-May 1993.

The region was formerly served by the Baltimore and Ohio Railroad and the Western Maryland Railway, both of which were merged with the C&O Railroad in the early 1980's to form CSX. The region currently has about 40 operating coal mines which collectively produced over 20 million tons of coal in 1991.

Production in the region has slipped by about 10 percent since 1987 and CSX officials say their aim is to reverse this trend. They believe CSX can move more coal at lower cost by limiting rail yard delays, by reducing turn-around time for unit trains, and by increasing use of the river system.⁴

New York Challenges EPA on Acid Rain Regulations. The State of New York has filed suit challenging the

Environmental Protection Agency regulations which allow businesses to buy and sell pollution rights. New York officials argue that the regulations are deficient because they provide no means for ensuring that all regions of the Nation decrease emissions proportionately. They contend the emission allowance program will allow heavy polluters in the Midwest to delay adding emission control equipment which would reduce acid rain in sensitive areas like the Adirondak region of upstate New York.⁵

DOE Selects Five Projects in Final CCT Round. Five clean coal demonstration projects valued at nearly \$2.2 billion were selected in the fifth and final round of the Department of Energy's Clean Coal Technology Demonstration program. The selections, announced on May 4, are intended to demonstrate superclean, high-efficiency technologies which will meet the post-2000 emissions standards established by the Clean Air Act Amendments of 1990.

The projects include four for electricity generation and one for blast furnace/electricity cogeneration. While final funding for the projects remains to be negotiated, project sponsors have proposed that they supply \$1.6 billion, or 75 percent, of the total cost of the projects, with DOE providing the balance of approximately \$600 million.

The largest of the four generation projects will be a 480-megawatt (MW) combined cycle facility in Camden, New Jersey, which will burn gasified high sulfur West Virginia coal. The \$780-million project will be built by the Camden Clean Energy Project, a consortium including Duke Energy Corporation, General Electric Company, and Air Products and Chemicals, Inc. The project's sponsors have proposed that DOE share 25 percent of the cost.

The remaining three generation projects include a plant expansion, a re-powering, and a cogeneration facility. Easton Utilities in Easton, Maryland, will expand its Plant No. 2 by adding two diesels with a combined capacity of 14 MW. The units will burn a coal water slurry, and will operate as part of a combined cycle power plant with exhaust from the engines passing through a heat recovery boiler to produce steam for a turbine. Sponsors have proposed that DOE supply half of the \$37-million cost.

Pennsylvania Electric Company will re-power its Warren generating station, adding an externally fueled gas turbine to create a combined cycle power plant. The new turbine will be rated at 18 MW and is expected to improve the plant's heat rate by nearly 30 percent. Sponsors have asked DOE to provide half of the \$146-million total cost.

² "MMS Sets Ground Rules for Royalties from Renegotiated Contracts," *Inside Energy* (Washington, D.C., May 10, 1993), p. 13.

³ "Merger Will Create Mining Giant," *New York Times*, (New York, New York, May 26, 1993), p. D-1.

⁴ "CSX Forms Unit to Cover Former Rail Lines," *Coal Outlook Supplement*, (Arlington, Virginia, May 10, 1993), p. 1.

⁵ "New York Sues EPA Over Acid Rain Regs," *Solid Kentucky Coal Association* (Lexington, Kentucky, March 1993), p. 3.

A group including Air Products and Chemicals, Inc. (APCI) will build a 95-MW pressurized, circulating, fluidized-bed combustion cogenerator at the APCI chemical plant in Calvert City, Kentucky. The facility will provide process steam for the chemical plant and will sell electricity to the Tennessee Valley Authority. The estimated total cost of the project is \$375 million, and sponsors have asked DOE to supply 40 percent.

The blast furnace/cogeneration project will be built at LTV Steel's Cleveland Works by LTV, Centurion Energy, and Air Products and Chemicals, Inc. The \$825-million plant will use the COREX (Clean Power from Integrated Coal/Ore Reduction) process to produce hot iron. Gas produced as a byproduct of the COREX process will be used to fire a 150-MW combined cycle generating unit. Sponsors have asked DOE to supply about 20 percent of the cost.⁶

R & F Coal Company Wins Reclamation Award. The R & F Coal Company has won the 1993 Office of Surface Mining(OSM) Director's Award for Excellence in Surface Mining and Reclamation. The company, a subsidiary of Zeigler Coal Holding Company, was honored for its outstanding achievement in restoring the Hart Mine, located near Newcomerstown, Ohio.

The Director's Award is the highest honor among a dozen prizes awarded by OSM each year in a national competition to recognize achievements by coal companies in various environmental restoration categories. The competition was created in 1986 to recognize coal companies whose reclamation efforts exceed the requirements of the Surface Mining and Control Act of 1977.⁷

⁶ "DOE Selects Five Projects Worth Over \$2 Billion in Final CCT Round," *Inside Energy*, (Washington, D.C., May 10, 1993), p. 6. "Major Coal Project in Jersey Gets DOE Nod," *Coal Outlook*, (Arlington, Virginia, May 10, 1993), p. 3.

⁷ "R & F Wins OSM's Director's Award, 11 Others Honored," *Coal Voice*, (Washington, D.C., June 24, 1993), p. 5.

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	241,822	245,109	950,265
1989	247,179	239,022	243,060	251,468	980,729
1990	264,184	254,279	254,780	255,853	1,029,076
1991	254,746	237,006	251,438	252,794	995,984
1992	256,673	243,425	249,677	250,475	1,000,250
1993	242,460	NA	NA	NA	242,460

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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
Alabama	6,252	6,587	7,061	6,252	7,061	-11.5
Alaska	420	463	401	420	401	4.9
Arizona	2,940	2,998	3,266	2,940	3,266	-10.0
Arkansas	4	8	7	4	7	-48.2
California	-	45	-	-	-	-
Colorado	4,959	4,898	4,321	4,959	4,321	14.8
Illinois	13,800	14,109	16,125	13,800	16,125	-14.4
Indiana	7,286	7,254	9,102	7,286	9,102	-20.0
Iowa	53	61	88	53	88	-39.7
Kansas	102	101	75	102	75	35.5
Kentucky Total	39,020	40,385	41,119	39,020	41,119	-5.1
Eastern	29,582	30,186	30,325	29,582	30,325	-2.4
Western	9,438	10,199	10,794	9,438	10,794	-12.6
Louisiana	744	773	553	744	553	34.6
Maryland	888	887	690	888	690	28.7
Missouri	238	604	664	238	664	-64.1
Montana	9,465	10,289	10,021	9,465	10,021	-5.6
New Mexico	7,220	6,798	5,922	7,220	5,922	21.9
North Dakota	8,202	8,507	7,995	8,202	7,995	2.6
Ohio	7,542	7,285	8,032	7,542	8,032	-6.1
Oklahoma	494	448	479	494	479	2.9
Pennsylvania Total	16,321	16,214	17,927	16,321	17,927	-9.0
Anthracite	828	949	783	828	783	5.8
Bituminous	15,493	15,265	17,143	15,493	17,143	-9.6
Tennessee	604	675	684	604	684	-11.6
Texas	13,050	13,384	13,014	13,050	13,014	.3
Utah	5,195	5,920	6,106	5,195	6,106	-14.9
Virginia	10,842	11,323	11,254	10,842	11,254	-3.7
Washington	1,190	1,240	1,294	1,190	1,294	-8.1
West Virginia Total	37,916	41,288	42,850	37,916	42,850	-11.5
Northern	10,800	12,792	13,083	10,800	13,083	-17.5
Southern	27,116	28,495	29,767	27,116	29,767	-8.9
Wyoming	47,715	47,931	47,623	47,715	47,623	.2
Appalachian Total	109,947	114,444	118,822	109,947	118,822	-7.5
Interior Total	45,208	46,942	50,902	45,208	50,902	-11.2
Western Total	87,306	89,089	86,949	87,306	86,949	.4
East of the Miss. River	140,471	146,007	154,843	140,471	154,843	-9.3
West of the Miss. River	101,989	104,468	101,830	101,989	101,830	.2
U.S. Total	242,460	250,475	256,673	242,460	256,673	-5.5

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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
Coke Total	5,711	5,831	5,892	5,711	5,892	-3.1
By State						
Alabama	598	605	624	598	624	-4.2
Illinois	w	w	w	w	w	w
Indiana	1,465	1,324	1,442	1,465	1,442	1.5
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	511	636	691	511	691	-26.0
Pennsylvania	1,735	1,829	1,728	1,735	1,728	.4
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	796	804	803	796	803	-.9
Furnace Coke Plants	4,915	5,028	5,088	4,915	5,088	-3.4
Breeze Total	333	396	398	333	398	-16.4

^w Withheld to avoid disclosure of individual company data.

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

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

Distribution

A barge transports coal on the Chesapeake Bay to a Baltimore port facility. River transportation accounted for about 15 percent of all domestic shipments in 1992.

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

*Note: Each increment represents end-of-quarter data.
Source: Energy Information Administration, Form EIA-8, "Coal Distribution Report."*

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

Coal-Producing Region and State	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Alabama	6,225	6,179	6,759	6,225	6,759	-7.9
Alaska	422	459	419	422	419	.7
Arizona	2,854	3,010	3,025	2,854	3,025	-5.7
Arkansas	5	7	6	5	6	-14.5
California	-	30	52	-	52	-
Colorado	4,341	5,064	4,278	4,341	4,278	1.5
Illinois	13,828	14,245	14,659	13,828	14,659	-5.7
Indiana	7,483	7,287	8,574	7,483	8,574	-12.7
Iowa	53	61	88	53	88	-39.7
Kansas	95	102	71	95	71	35.4
Kentucky Total	37,776	40,911	39,495	37,776	39,495	-4.4
Eastern	28,512	30,492	29,222	28,512	29,222	-2.4
Western	9,264	10,419	10,273	9,264	10,273	-9.8
Louisiana	742	776	556	742	556	33.5
Maryland	812	880	756	812	756	7.4
Missouri	238	604	664	238	664	-64.1
Montana	9,433	10,456	9,941	9,433	9,941	-5.1
New Mexico	6,584	6,892	5,582	6,584	5,582	17.9
North Dakota	7,970	8,530	8,007	7,970	8,007	-.5
Ohio	7,795	7,051	8,220	7,795	8,220	-5.2
Oklahoma	502	514	453	502	453	10.8
Pennsylvania Total	16,333	16,431	16,450	16,333	16,450	-.7
Anthracite	804	971	830	804	830	-3.1
Bituminous	15,529	15,460	15,620	15,529	15,620	-.6
Tennessee	585	717	711	585	711	-17.8
Texas	13,035	13,282	13,222	13,035	13,222	-1.4
Utah	5,734	6,003	5,444	5,734	5,444	5.3
Virginia	10,348	11,567	11,104	10,348	11,104	-6.8
Washington	1,186	1,261	1,339	1,186	1,339	-11.4
West Virginia Total	37,227	41,278	41,796	37,227	41,796	-10.9
Northern	11,182	12,841	12,777	11,182	12,777	-12.5
Southern	26,046	28,438	29,019	26,046	29,019	-10.2
Wyoming	47,400	47,716	47,379	47,400	47,379	.
Appalachian Total	107,838	114,595	115,018	107,838	115,018	-6.2
Interior Total	45,246	47,296	48,567	45,246	48,567	-6.8
Western Total	85,924	89,421	85,466	85,924	85,466	.5
East of the Miss. River	138,412	146,546	148,524	138,412	148,524	-6.8
West of the Miss. River	100,595	104,765	100,527	100,595	100,527	.1
U.S. Total	239,007	251,312	249,051	239,007	249,051	-4.0

* 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 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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Sector: Electric Generation						
Alabama	4,030	3,792	4,058	4,030	4,058	-0.7
Alaska	80	82	82	80	82	-2.2
Arizona	2,854	3,010	3,025	2,854	3,025	-5.7
California	-	28	42	-	42	-
Colorado	3,650	4,164	3,896	3,650	3,896	-6.3
Illinois	12,100	12,503	13,454	12,100	13,454	-10.1
Indiana	6,454	6,208	7,465	6,454	7,465	-13.5
Iowa	7	61	88	7	88	-92.4
Kansas	68	73	56	68	56	21.1
Kentucky Total	29,144	31,370	30,237	29,144	30,237	-3.6
Eastern	20,120	21,205	20,179	20,120	20,179	-3
Western	9,024	10,165	10,058	9,024	10,058	-10.3
Louisiana	742	776	556	742	556	33.5
Maryland	616	713	611	616	611	.8
Missouri	186	544	618	186	618	-69.9
Montana	8,948	9,796	9,407	8,948	9,407	-4.9
New Mexico	6,386	6,677	5,448	6,386	5,448	17.2
North Dakota	6,201	6,774	6,357	6,201	6,357	-2.5
Ohio	7,040	6,274	7,401	7,040	7,401	-4.9
Oklahoma	245	245	293	245	293	-16.3
Pennsylvania Total	12,497	12,393	12,167	12,497	12,167	2.7
Anthracite	326	308	188	326	188	73.0
Bituminous	12,172	12,085	11,979	12,172	11,979	1.6
Tennessee	369	443	454	369	454	-18.9
Texas	12,157	12,708	12,735	12,157	12,735	-4.5
Utah	3,838	4,004	3,818	3,838	3,818	.5
Virginia	3,684	4,087	3,998	3,684	3,998	-7.9
Washington	1,173	1,203	1,212	1,173	1,212	-3.3
West Virginia Total	21,755	23,581	21,970	21,755	21,970	-1.0
Northern	9,710	10,526	10,480	9,710	10,480	-7.3
Southern	12,045	13,055	11,490	12,045	11,490	4.8
Wyoming	46,083	45,993	45,930	46,083	45,930	.3
Appalachian Total	70,112	72,487	70,840	70,112	70,840	-1.0
Interior Total	40,982	43,283	45,322	40,982	45,322	-9.6
Western Total	79,212	81,732	79,218	79,212	79,218	*
East of the Miss. River	97,689	101,363	101,817	97,689	101,817	-4.1
West of the Miss. River	92,616	96,139	93,563	92,616	93,563	-1.0
U.S. Total	190,305	197,502	195,380	190,305	195,380	-2.6
Sector: Coke Plants						
Alabama	341	378	408	341	408	-16.4
Colorado	72	35	23	72	23	215.8
Illinois	144	134	169	144	169	-14.9
Indiana	35	-	-	35	-	-
Kentucky Total	1,295	1,411	1,201	1,295	1,201	7.8
Eastern	1,295	1,411	1,201	1,295	1,201	7.8
Pennsylvania Total	716	814	850	716	850	-15.8
Anthracite	-	-	3	-	3	-
Bituminous	716	814	847	716	847	-15.5
Utah	105	160	99	105	99	6.3
Virginia	1,818	2,089	1,965	1,818	1,965	-7.5
West Virginia Total	2,576	2,961	3,382	2,576	3,382	-23.8
Northern	-	-	36	-	36	-
Southern	2,576	2,961	3,346	2,576	3,346	-23.0
Wyoming	-	12	-	-	-	-
Appalachian Total	6,745	7,653	7,806	6,745	7,806	-13.6
Interior Total	179	134	169	179	169	5.8
Western Total	178	207	122	178	122	45.7
East of the Miss. River	6,924	7,787	7,975	6,924	7,975	-13.2
West of the Miss. River	178	207	122	178	122	45.7
U.S. Total	7,101	7,994	8,097	7,101	8,097	-12.3

See footnotes at end of table.

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

Coal-Producing Region and State	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Sector: Industrial Plants (Except Coke)						
Alabama	437	560	503	437	503	-13.2
Arkansas	5	4	6	5	6	-14.5
California	-	2	9	-	9	-
Colorado	386	404	228	386	228	69.3
Illinois	1,290	1,210	811	1,299	811	60.1
Indiana	764	852	918	764	918	-16.8
Iowa	46	-	-	46	-	-
Kansas	25	26	11	25	11	123.8
Kentucky Total	3,766	4,276	3,761	3,766	3,761	.1
Eastern	3,626	4,113	3,629	3,626	3,629	-.1
Western	140	163	132	140	132	5.7
Maryland	67	89	81	67	81	-18.3
Missouri	9	33	12	9	12	-24.9
Montana	448	621	472	448	472	-5.2
New Mexico	194	210	131	194	131	48.6
North Dakota	1,721	1,715	1,614	1,721	1,614	6.6
Ohio	478	660	644	478	644	-25.8
Oklahoma	245	267	160	245	160	53.1
Pennsylvania Total	1,096	1,202	971	1,096	971	12.8
Anthracite	88	206	127	88	127	-31.0
Bituminous	1,008	996	844	1,008	844	19.4
Tennessee	198	246	228	198	228	-13.2
Texas	878	574	487	878	487	80.1
Utah	629	882	943	629	943	-33.3
Virginia	1,054	1,071	1,026	1,054	1,026	2.7
Washington	13	13	.	13	.	NM
West Virginia Total	2,336	2,602	2,494	2,336	2,494	-6.4
Northern	645	632	631	645	631	2.3
Southern	1,691	1,970	1,863	1,691	1,863	-9.3
Wyoming	1,094	1,420	1,060	1,094	1,060	3.2
Appalachian Total	9,290	10,543	9,577	9,290	9,577	-3.0
Interior Total	3,410	3,129	2,538	3,410	2,538	34.4
Western Total	4,485	5,267	4,457	4,485	4,457	.6
East of the Miss. River	11,493	12,769	11,439	11,493	11,439	.5
West of the Miss. River	5,693	6,170	5,134	5,693	5,134	10.9
U.S. Total	17,185	18,939	16,572	17,185	16,572	3.7
Sector: Residential and Commercial						
Alabama	22	27	24	22	24	-8.2
Alaska	160	157	149	160	149	7.3
Colorado	18	26	41	18	41	-57.6
Illinois	118	106	83	118	83	41.4
Indiana	158	165	124	158	124	28.0
Kansas	3	2	2	3	2	7.8
Kentucky Total	515	315	246	515	246	109.4
Eastern	501	263	230	501	230	117.7
Western	14	52	16	14	16	-13.3
Maryland	1	1	.	1	.	23.2
Missouri	29	27	23	29	23	26.7
Montana	20	20	24	20	24	-14.7
New Mexico	4	5	4	4	4	12.4
North Dakota	48	40	36	48	36	34.8
Ohio	133	91	124	133	124	7.7
Oklahoma	.	1	1	.	1	-40.1
Pennsylvania Total	453	512	613	453	613	-26.0
Anthracite	326	380	473	326	473	-31.1
Bituminous	128	132	140	128	140	-8.7
Tennessee	7	15	16	7	16	-56.6
Utah	89	134	118	89	118	-24.5
Virginia	29	37	16	29	16	77.4
Washington	.	.	.	.	.	NM
West Virginia Total	170	193	140	170	140	21.6
Northern	20	13	24	20	24	-19.0
Southern	150	180	115	150	115	30.2
Wyoming	74	53	59	74	59	27.1

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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Sector: Residential and Commercial (Continued)						
Appalachian Total	1,316	1,139	1,164	1,316	1,164	13.1
Interior Total	322	352	249	322	249	29.4
Western Total	414	434	431	414	431	-3.9
East of the Miss. River	1,606	1,461	1,386	1,606	1,386	15.9
West of the Miss. River	446	464	457	446	457	-2.3
U.S. Total	2,052	1,925	1,843	2,052	1,843	11.4

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

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

Notes: Total may not equal sum of components because of independent rounding. 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-March 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	-	-	-	-	-	1,364	1,364
Alaska	-	-	-	-	-	182	182
Colorado	-	-	-	-	-	182	182
Illinois	-	-	-	-	-	157	157
Indiana	-	-	-	-	-	56	56
Kentucky Total	-	241	30	9	280	2,176	2,456
Eastern	-	241	30	9	280	2,117	2,397
Western	-	-	-	-	-	59	59
Maryland	-	-	-	-	-	103	103
Oklahoma	-	-	-	-	-	11	11
Pennsylvania Total	*	1	52	*	54	1,293	1,347
Anthracite	-	1	27	*	28	6	34
Bituminous	*	-	25	-	25	1,287	1,313
Utah	78	-	268	*	346	719	1,065
Virginia	-	-	-	-	-	3,654	3,654
West Virginia Total	1,077	37	-	-	1,113	8,247	9,360
Northern	293	-	-	-	293	230	523
Southern	784	37	-	-	820	8,017	8,837
Wyoming	-	-	-	-	-	149	149
Appalachian Total	1,077	279	83	9	1,447	16,778	18,225
Interior Total	-	-	-	-	-	283	283
Western Total	78	-	268	*	346	1,232	1,579
East of the Miss. River	1,077	279	83	9	1,447	17,050	18,497
West of the Miss. River	78	-	268	*	346	1,244	1,590
U.S. Total	1,155	279	351	9	1,794	18,293	20,087

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-March 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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
New England Total	1,169	1,836	2,251	1,169	2,251	-48.1
Connecticut	226	257	289	226	289	-21.8
Maine	17	206	373	17	373	-95.6
Massachusetts	520	1,044	1,300	520	1,300	-60.0
New Hampshire	405	323	283	405	283	42.8
Rhode Island	1	2	1	1	1	-7.9
Vermont	1	4	5	1	5	-68.2
Middle Atlantic Total	17,173	18,343	18,174	17,173	18,174	-5.5
New Jersey	717	691	764	717	764	-6.2
New York	2,948	3,693	3,318	2,948	3,318	-11.2
Pennsylvania	13,509	13,959	14,092	13,509	14,092	-4.1
East North Central Total	48,038	49,144	51,923	48,038	51,923	-7.5
Illinois	7,776	7,615	8,055	7,776	8,055	-3.5
Indiana	14,075	14,495	16,548	14,075	16,548	-14.9
Michigan	6,692	7,570	6,838	6,692	6,838	-2.1
Ohio	14,904	14,668	15,667	14,904	15,667	-6.1
Wisconsin	4,591	4,795	4,614	4,591	4,614	-5
West North Central Total	27,641	28,697	28,918	27,641	28,918	-4.4
Iowa	3,500	3,283	4,361	3,500	4,361	-19.7
Kansas	3,611	3,809	4,120	3,611	4,120	-12.3
Minnesota	4,742	5,060	4,052	4,742	4,052	17.0
Missouri	5,263	5,655	5,985	5,263	5,985	-12.1
Nebraska	2,285	2,037	2,162	2,285	2,162	5.6
North Dakota	7,595	8,067	7,665	7,595	7,665	-9
South Dakota	646	786	573	646	573	12.6
South Atlantic Total	35,490	38,796	35,776	35,490	35,776	-8
Delaware	447	538	433	447	433	3.0
District of Columbia	26	13	28	26	28	-8.1
Florida	5,648	6,046	6,111	5,648	6,111	-7.6
Georgia	5,955	7,262	5,513	5,955	5,513	8.0
Maryland	2,589	2,654	2,131	2,589	2,131	21.5
North Carolina	5,821	7,221	5,792	5,821	5,792	.5
South Carolina	2,739	2,969	3,082	2,739	3,082	-11.1
Virginia	4,231	3,789	4,011	4,231	4,011	5.5
West Virginia	8,035	8,306	8,674	8,035	8,674	-7.4
East South Central Total	25,459	24,235	22,675	25,459	22,675	12.3
Alabama	7,456	7,556	6,687	7,456	6,687	11.5
Kentucky	8,963	8,850	8,229	8,963	8,229	8.9
Mississippi	791	792	1,139	791	1,139	-30.6
Tennessee	8,248	7,037	6,619	8,248	6,619	24.6
West South Central Total	31,482	33,709	31,617	31,482	31,617	-4
Arkansas	2,612	3,214	2,758	2,612	2,758	-5.3
Louisiana	3,414	3,141	2,946	3,414	2,946	15.9
Oklahoma	4,694	5,103	4,286	4,694	4,286	9.5
Texas	20,763	22,251	21,628	20,763	21,628	-4.0
Mountain Total	27,512	28,374	27,866	27,512	27,866	-1.3
Arizona	4,414	4,270	4,087	4,414	4,087	8.0
Colorado	4,201	3,859	4,121	4,201	4,121	1.9
Idaho	64	136	105	64	105	-38.8
Montana	2,839	3,088	3,075	2,839	3,075	-7.7
Nevada	1,874	1,895	2,032	1,874	2,032	-7.8
New Mexico	3,435	4,123	3,305	3,435	3,305	3.9
Utah	4,086	4,636	3,950	4,086	3,950	3.5
Wyoming	6,598	6,366	7,191	6,598	7,191	-8.2
Pacific Total	2,682	3,236	2,711	2,682	2,711	-1.1
Alaska	240	239	231	240	231	4.0
California	408	717	761	408	761	-46.4
Oregon	521	648	454	521	454	14.7
Washington	1,513	1,631	1,265	1,513	1,265	19.6
Unknown	2,274	1,481	1,386	2,274	1,386	64.1
U.S. Total	218,920	227,851	223,298	218,920	223,298	-2.0
Canada	1,794	2,893	2,041	1,794	2,041	-12.1
Overseas ¹	18,293	20,568	23,713	18,293	23,713	-22.9
Foreign Total	20,087	23,461	25,754	20,087	25,754	-22.0
Grand Total	239,007	251,312	249,051	239,007	249,051	-4.0

¹ Also includes Mexico.

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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Sector: Electric Generation						
New England Total	1,047	1,568	1,801	1,047	1,801	-41.9
Connecticut	221	244	282	221	282	-21.8
Massachusetts	487	1,006	1,240	487	1,240	-60.7
New Hampshire	339	317	279	339	279	21.6
Middle Atlantic Total	12,931	13,582	13,636	12,931	13,636	-5.2
New Jersey	631	651	695	631	695	-9.3
New York	2,265	2,840	2,619	2,265	2,619	-13.5
Pennsylvania	10,036	10,091	10,322	10,036	10,322	-2.8
East North Central Total	40,747	40,855	44,672	40,747	44,672	-8.8
Illinois	6,050	6,022	6,808	6,050	6,808	-11.1
Indiana	11,039	11,582	13,537	11,039	13,537	-18.5
Michigan	6,154	6,531	6,335	6,154	6,335	-2.9
Ohio	13,205	12,372	13,634	13,205	13,634	-3.1
Wisconsin	4,301	4,348	4,358	4,301	4,358	-1.3
West North Central Total	24,671	25,424	26,175	24,671	26,175	-5.7
Iowa	3,074	2,990	4,077	3,074	4,077	-24.6
Kansas	3,562	3,742	4,096	3,562	4,096	-13.0
Minnesota	4,546	4,675	3,811	4,546	3,811	19.3
Missouri	5,004	5,262	5,676	5,004	5,676	-11.8
Nebraska	2,223	1,904	2,104	2,223	2,104	5.6
North Dakota	5,680	6,123	5,858	5,680	5,858	-3.0
South Dakota	582	727	553	582	553	5.3
South Atlantic Total	30,876	34,144	31,034	30,876	31,034	-5
Delaware	415	494	399	415	399	4.1
Florida	5,372	5,639	5,822	5,372	5,822	-7.7
Georgia	5,462	6,915	5,053	5,462	5,053	8.1
Maryland	2,442	2,465	1,976	2,442	1,976	23.6
North Carolina	5,107	6,475	5,035	5,107	5,035	1.4
South Carolina	2,078	2,327	2,613	2,078	2,613	-20.5
Virginia	3,118	2,763	2,608	3,118	2,608	19.5
West Virginia	6,882	7,066	7,529	6,882	7,529	-8.6
East South Central Total	22,077	20,638	19,308	22,077	19,308	14.3
Alabama	6,209	6,028	5,056	6,209	5,056	22.8
Kentucky	7,950	7,851	7,340	7,950	7,340	8.3
Mississippi	722	722	1,095	722	1,095	-34.1
Tennessee	7,197	6,037	5,817	7,197	5,817	23.7
West South Central Total	29,855	32,331	30,692	29,855	30,692	-2.7
Arkansas	2,547	3,151	2,706	2,547	2,706	-5.9
Louisiana	3,255	2,964	2,811	3,255	2,811	15.8
Oklahoma	4,464	4,864	4,131	4,464	4,131	8.1
Texas	19,588	21,352	21,043	19,588	21,043	-6.9
Mountain Total	26,021	26,704	26,304	26,021	26,304	-1.1
Arizona	4,250	4,114	3,931	4,250	3,931	8.1
Colorado	4,017	3,611	3,890	4,017	3,890	3.3
Montana	2,757	2,974	2,988	2,757	2,988	-7.7
Nevada	1,818	1,862	1,989	1,818	1,989	-8.6
New Mexico	3,420	4,105	3,291	3,420	3,291	3.9
Utah	3,676	4,216	3,537	3,676	3,537	3.9
Wyoming	6,084	5,823	6,679	6,084	6,679	-8.9
Pacific Total	2,080	2,258	1,757	2,080	1,757	18.4
Alaska	80	82	82	80	82	-2.2
California	46	36	42	46	42	8.3
Oregon	507	575	420	507	420	20.6
Washington	1,447	1,565	1,212	1,447	1,212	19.4
U.S. Total	190,305	197,502	195,380	190,305	195,380	-2.6
Sector: Coke Plants						
Middle Atlantic Total	2,167	2,516	2,570	2,167	2,570	-15.7
New York	256	298	301	256	301	-15.0
Pennsylvania	1,911	2,218	2,269	1,911	2,269	-15.8
East North Central Total	3,001	3,230	3,315	3,001	3,315	-9.5
Illinois	500	423	412	500	412	21.5
Indiana	1,688	1,698	1,829	1,688	1,829	-7.7
Michigan	19	12	-	19	-	-
Ohio	794	1,097	1,074	794	1,074	-26.1
South Atlantic Total	858	871	684	858	684	25.5
Virginia	218	191	242	218	242	-9.8

See footnotes at end of table.

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

Census Division and State of Destination	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Sector: Coke Plants (Continued)						
West Virginia	640	681	442	640	442	44.7
East South Central Total	877	1,131	1,304	877	1,304	-32.8
Alabama	601	665	875	601	875	-31.3
Kentucky	276	453	430	276	430	-35.8
Tennessee	-	12	-	-	-	-
Mountain Total	199	246	224	199	224	-11.1
Utah	199	246	224	199	224	-11.1
U.S. Total	7,101	7,994	8,097	7,101	8,097	-12.3
Sector: Industrial Plants (Except Coke)						
New England Total	99	228	429	99	429	-76.9
Connecticut	-	-	2	-	2	-
Maine	14	198	370	14	370	-96.1
Massachusetts	21	28	52	21	52	-58.9
New Hampshire	63	-	1	63	1	NM
Vermont	-	2	3	-	3	-97.9
Middle Atlantic Total	1,606	1,751	1,348	1,606	1,348	19.1
New Jersey	83	37	64	83	64	30.5
New York	360	494	335	360	335	7.5
Pennsylvania	1,163	1,220	950	1,163	950	22.5
East North Central Total	3,813	4,596	3,487	3,813	3,487	9.3
Illinois	1,133	1,090	756	1,133	756	49.7
Indiana	1,166	1,054	1,038	1,166	1,038	12.4
Michigan	477	1,001	469	477	469	1.6
Ohio	747	1,006	969	747	969	-22.9
Wisconsin	290	444	256	290	256	13.6
West North Central Total	2,802	3,152	2,593	2,802	2,593	8.1
Iowa	415	292	260	415	260	59.4
Kansas	31	67	24	31	24	29.3
Minnesota	194	380	222	194	222	-12.7
Missouri	185	333	247	185	247	-24.8
Nebraska	62	131	58	62	58	6.1
North Dakota	1,852	1,891	1,763	1,852	1,763	5.0
South Dakota	63	59	19	63	19	230.1
South Atlantic Total	3,476	3,528	3,899	3,476	3,899	-10.8
Delaware	31	43	34	31	34	-10.1
Florida	276	392	289	276	289	-4.5
Georgia	487	340	455	487	455	7.2
Maryland	144	186	150	144	150	-4.2
North Carolina	641	641	717	641	717	-10.5
South Carolina	624	626	467	624	467	33.8
Virginia	801	771	1,111	801	1,111	-27.9
West Virginia	472	530	676	472	676	-30.2
East South Central Total	2,212	2,279	1,953	2,212	1,953	13.3
Alabama	622	835	732	622	732	-15.0
Kentucky	645	466	408	645	408	58.0
Mississippi	69	70	44	69	44	56.8
Tennessee	876	909	769	876	769	13.9
West South Central Total	1,622	1,374	920	1,622	920	76.2
Arkansas	64	63	50	64	50	27.2
Louisiana	158	177	134	158	134	17.5
Oklahoma	229	238	154	229	154	48.8
Texas	1,171	896	582	1,171	582	101.3
Mountain Total	1,145	1,239	1,160	1,145	1,160	-1.3
Arizona	164	154	156	164	156	5.1
Colorado	175	224	213	175	213	-17.9
Idaho	49	116	90	49	90	-45.4
Montana	77	111	73	77	73	4.7
Nevada	55	33	43	55	43	28.2
New Mexico	11	13	10	11	10	5.5
Utah	170	94	99	170	99	70.7
Wyoming	445	495	475	445	475	-6.4
Pacific Total	410	791	782	410	782	-47.6
California	362	681	718	362	718	-49.6
Oregon	13	73	34	13	34	-60.0
Washington	34	37	30	34	30	13.0

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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Sector: Industrial Plants (Except Coke) (Continued)						
U.S. Total	17,185	18,939	16,572	17,185	16,572	3.7
Sector: Residential and Commercial						
New England Total	23	40	21	23	21	9.7
Connecticut	5	13	4	5	4	21.6
Maine	2	8	3	2	3	-21.7
Massachusetts	11	10	8	11	8	39.8
New Hampshire	2	6	3	2	3	-40.3
Rhode Island	1	2	1	1	1	-7.9
Vermont	1	2	1	1	1	1.4
Middle Atlantic Total	469	495	620	469	620	-24.3
New Jersey	3	3	5	3	5	-44.4
New York	67	61	63	67	63	6.0
Pennsylvania	400	431	552	400	552	-27.6
East North Central Total	476	456	430	476	430	10.9
Illinois	94	80	78	94	78	19.7
Indiana	182	155	125	182	125	45.2
Michigan	42	25	34	42	34	23.6
Ohio	158	194	191	158	191	-17.1
Wisconsin	-	3	1	-	1	-
West North Central Total	169	121	150	169	150	12.2
Iowa	11	*	24	11	24	-54.0
Kansas	18	*	*	18	*	NM
Minnesota	3	5	19	3	19	-86.2
Missouri	74	60	62	74	62	19.2
Nebraska	*	1	*	*	*	NM
North Dakota	63	53	44	63	44	43.5
South Dakota	-	-	1	-	1	-
South Atlantic Total	279	250	158	279	158	76.2
Delaware	1	*	*	1	*	252.4
District of Columbia	26	13	28	26	28	-8.1
Florida	*	15	*	*	*	NM
Georgia	6	7	6	6	6	-.6
Maryland	3	3	5	3	5	-40.0
North Carolina	72	104	40	72	40	80.6
South Carolina	37	16	3	37	3	NM
Virginia	93	65	50	93	50	88.4
West Virginia	42	27	26	42	26	58.4
East South Central Total	293	187	109	293	109	168.8
Alabama	24	28	24	24	24	1.5
Kentucky	93	79	51	93	51	82.7
Mississippi	-	*	-	-	-	-
Tennessee	176	79	34	176	34	413.4
West South Central Total	5	4	5	5	5	1.8
Arkansas	*	*	2	*	2	-87.6
Louisiana	1	-	-	1	-	-
Oklahoma	*	*	*	*	*	NM
Texas	4	4	3	4	3	36.4
Mountain Total	146	185	177	146	177	-17.9
Arizona	*	2	-	*	-	-
Colorado	9	24	18	9	18	-48.8
Idaho	15	21	15	15	15	.8
Montana	5	4	14	5	14	-62.3
Nevada	1	*	1	1	1	10.4
New Mexico	4	5	4	4	4	18.3
Utah	41	80	89	41	89	-53.6
Wyoming	69	48	36	69	36	91.0
Pacific Total	192	187	172	192	172	11.6
Alaska	160	157	149	160	149	7.3
California	*	*	*	*	*	NM
Oregon	1	*	*	1	*	191.9
Washington	31	29	22	31	22	38.6
U.S. Total	2,052	1,925	1,843	2,052	1,843	11.4

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

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

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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Rail						
Alabama	1,716	1,582	1,611	1,716	1,611	6.5
Alaska	186	195	186	186	186	-.1
Arizona	1,683	1,967	1,650	1,683	1,650	2.0
Colorado	3,160	3,569	3,045	3,160	3,045	3.8
Illinois	6,183	7,292	7,979	6,183	7,979	-22.5
Indiana	3,491	3,634	5,190	3,491	5,190	-32.7
Kansas	15	8	-	15	-	-
Kentucky Total	21,860	21,751	21,142	21,860	21,142	3.4
Eastern	19,179	19,440	18,392	19,179	18,392	4.3
Western	2,681	2,312	2,751	2,681	2,751	-2.5
Maryland	420	558	444	420	444	-5.3
Missouri	-	-	33	-	33	-
Montana	5,912	5,693	5,926	5,912	5,926	-.2
New Mexico	3,391	3,038	2,541	3,391	2,541	33.4
North Dakota	634	787	860	634	860	-26.2
Ohio	434	330	522	434	522	-16.9
Oklahoma	-	46	39	-	39	-
Pennsylvania Total	6,203	6,951	6,941	6,203	6,941	-10.6
Anthracite	61	41	34	61	34	80.4
Bituminous	6,143	6,911	6,907	6,143	6,907	-11.1
Tennessee	346	376	452	346	452	-23.5
Texas	5,495	6,168	6,445	5,495	6,445	-14.7
Utah	2,250	2,549	2,434	2,250	2,434	-7.5
Virginia	5,390	6,032	5,378	5,390	5,378	.2
Washington	-	27	-	-	-	-
West Virginia Total	14,230	15,903	15,018	14,230	15,018	-5.2
Northern	3,381	3,929	3,716	3,381	3,716	-9.0
Southern	10,849	11,973	11,301	10,849	11,301	-4.0
Wyoming	42,230	41,224	40,820	42,230	40,820	3.5
Appalachian Total	47,919	51,172	48,758	47,919	48,758	-1.7
Interior Total	17,866	19,460	22,437	17,866	22,437	-20.4
Western Total	59,446	59,049	57,461	59,446	57,461	3.5
East of the Miss. River	60,275	64,409	64,678	60,275	64,678	-6.8
West of the Miss. River	64,956	65,271	63,979	64,956	63,979	1.5
U.S. Total	125,232	129,681	128,657	125,232	128,657	-2.7
Method of Transportation: River						
Alabama	385	519	556	385	556	-30.7
Colorado	110	38	24	110	24	366.9
Illinois	5,894	5,309	4,702	5,894	4,702	25.4
Indiana	1,388	1,238	1,043	1,388	1,043	33.1
Kentucky Total	8,449	10,068	9,406	8,449	9,406	-10.2
Eastern	3,393	3,568	3,544	3,393	3,544	-4.3
Western	5,056	6,500	5,862	5,056	5,862	-13.7
Maryland	112	-	-	112	-	-
Ohio	2,427	1,894	2,158	2,427	2,158	12.5
Pennsylvania Total	2,834	2,070	1,916	2,834	1,916	48.0
Anthracite	1	-	2	1	2	-31.1
Bituminous	2,833	2,070	1,914	2,833	1,914	48.0
Tennessee	136	189	137	136	137	-1.1
Utah	155	-	-	155	-	-
Virginia	548	643	688	548	688	-20.4
West Virginia Total	8,797	9,083	8,711	8,797	8,711	1.0
Northern	4,112	4,034	4,160	4,112	4,160	-1.2
Southern	4,685	5,049	4,551	4,685	4,551	2.9
Wyoming	1,289	2,521	2,494	1,289	2,494	-48.3
Appalachian Total	18,631	17,965	17,709	18,631	17,709	5.2
Interior Total	12,338	13,047	11,607	12,338	11,607	6.3
Western Total	1,554	2,559	2,518	1,554	2,518	-38.3
East of the Miss. River	30,969	31,012	29,316	30,969	29,316	5.6
West of the Miss. River	1,554	2,559	2,518	1,554	2,518	-38.3
U.S. Total	32,524	33,571	31,834	32,524	31,834	2.2

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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Great Lakes						
Illinois	-	6	-	-	-	-
Indiana	12	126	3	12	3	247.7
Kentucky Total	273	1,145	312	273	312	-12.6
Eastern	273	1,145	312	273	312	-12.6
Montana	903	1,928	1,138	903	1,138	-20.6
Ohio	-	-	14	-	14	-
Pennsylvania Total	9	317	102	9	102	-91.0
Bituminous	9	317	102	9	102	-91.0
Tennessee	-	21	-	-	-	-
Virginia	-	47	-	-	-	-
West Virginia Total	47	167	37	47	37	27.9
Northern	29	80	-	29	-	-
Southern	19	87	37	19	37	-49.4
Wyoming	-	480	21	-	21	-
Appalachian Total	329	1,697	466	329	466	-29.3
Interior Total	12	132	3	12	3	247.7
Western Total	903	2,408	1,159	903	1,159	-22.1
East of the Miss. River	341	1,830	469	341	469	-27.3
West of the Miss. River	903	2,408	1,159	903	1,159	-22.1
U.S. Total	1,245	4,238	1,628	1,245	1,628	-23.6
Method of Transportation: Tidewater						
Illinois	-	-	14	-	14	-
Kentucky Total	604	647	1,077	604	1,077	-43.9
Eastern	604	647	1,077	604	1,077	-43.9
Pennsylvania Total	-	2	-	-	-	-
Bituminous	-	2	-	-	-	-
Virginia	219	235	549	219	549	-60.2
West Virginia Total	822	1,354	990	822	990	-17.0
Northern	483	790	683	483	683	-29.4
Southern	339	564	307	339	307	10.6
Appalachian Total	1,646	2,238	2,617	1,646	2,617	-37.1
Interior Total	-	-	14	-	14	-
East of the Miss. River	1,646	2,238	2,631	1,646	2,631	-37.5
U.S. Total	1,646	2,238	2,631	1,646	2,631	-37.5
Method of Transportation: Truck						
Alabama	2,283	2,213	2,289	2,283	2,289	-0.3
Alaska	54	44	45	54	45	21.0
Arkansas	5	4	6	5	6	-14.5
California	-	30	52	-	52	-
Colorado	856	1,022	1,120	856	1,120	-23.5
Illinois	1,196	1,115	1,162	1,196	1,162	2.9
Indiana	2,341	2,062	2,105	2,341	2,105	11.2
Iowa	53	61	88	53	88	-39.7
Kansas	80	93	70	80	70	15.1
Kentucky Total	3,533	3,444	2,843	3,533	2,843	24.3
Eastern	2,093	2,179	1,905	2,093	1,905	9.8
Western	1,440	1,265	937	1,440	937	53.6
Louisiana	97	120	113	97	113	-14.5
Maryland	150	236	244	150	244	-38.4
Missouri	50	98	59	50	59	-14.9
Montana	87	106	77	87	77	12.9
New Mexico	4	4	3	4	3	24.5
North Dakota	947	1,058	1,106	947	1,106	-14.4
Ohio	2,609	3,033	3,003	2,609	3,003	-13.1
Oklahoma	490	466	414	490	414	18.4
Pennsylvania Total	4,069	3,690	3,736	4,069	3,736	8.9
Anthracite	587	735	669	587	669	-12.3
Bituminous	3,482	2,955	3,067	3,482	3,067	13.5
Tennessee	92	118	109	92	109	-15.8

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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Truck (Continued)						
Texas	3,204	3,253	2,967	3,204	2,967	8.0
Utah	1,536	1,915	1,696	1,536	1,696	-9.4
Virginia	204	127	140	204	140	45.0
Washington	41	18	*	41	*	NM
West Virginia Total	1,700	1,474	1,746	1,700	1,746	-2.6
Northern	1,154	1,015	1,158	1,154	1,158	-.3
Southern	546	459	588	546	588	-7.1
Wyoming	919	1,165	964	919	964	-4.7
Appalachian Total	13,199	13,070	13,172	13,199	13,172	.2
Interior Total	8,957	8,538	7,922	8,957	7,922	13.1
Western Total	4,445	5,363	5,062	4,445	5,062	-12.2
East of the Miss. River	18,176	17,511	17,377	18,176	17,377	4.6
West of the Miss. River	8,425	9,459	8,779	8,425	8,779	-4.0
U.S. Total	26,601	26,970	26,156	26,601	26,156	1.7
Method of Transportation: Tramway, Conveyor and Slurry Pipeline						
Alabama	446	408	492	446	492	-9.4
Arizona	1,171	1,043	1,375	1,171	1,375	-14.8
Illinois	386	224	652	386	652	-40.8
Indiana	178	166	163	178	163	9.1
Kentucky Total	-	302	655	-	655	-
Western	-	302	655	-	655	-
Louisiana	645	656	443	645	443	45.8
Missouri	174	506	561	174	561	-68.9
Montana	2,514	2,709	2,762	2,514	2,762	-9.0
New Mexico	3,190	3,850	3,038	3,190	3,038	5.0
North Dakota	6,388	6,684	6,041	6,388	6,041	5.7
Ohio	2,182	1,766	2,469	2,182	2,469	-11.6
Pennsylvania Total	1,647	1,865	1,884	1,647	1,884	-12.6
Anthracite	91	117	86	91	86	5.0
Bituminous	1,557	1,748	1,798	1,557	1,798	-13.4
Texas	4,336	3,861	3,810	4,336	3,810	13.8
Utah	719	715	847	719	847	-15.0
Virginia	224	191	242	224	242	-7.2
Washington	1,145	1,171	1,212	1,145	1,212	-5.5
West Virginia Total	1,217	1,318	1,450	1,217	1,450	-16.1
Northern	1,217	1,318	1,450	1,217	1,450	-16.1
Wyoming	2,812	2,084	2,745	2,812	2,745	2.4
Appalachian Total	5,716	5,548	6,537	5,716	6,537	-12.6
Interior Total	5,719	5,713	6,284	5,719	6,284	-9.0
Western Total	17,940	18,255	18,020	17,940	18,020	-.4
East of the Miss. River	6,281	6,239	8,007	6,281	8,007	-21.6
West of the Miss. River	23,094	23,277	22,834	23,094	22,834	1.1
U.S. Total	29,375	29,516	30,841	29,375	30,841	-4.8

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

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

Notes: Total may not equal sum of components because of independent rounding. 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	January-March 1993	October-December 1992	January-March 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Rail						
New England Total	901	699	1,083	901	1,083	-16.8
Connecticut	.	46	16	.	16	-99.5
Maine	.	7	195	.	195	-99.9
Massachusetts	512	364	621	512	621	-17.6
New Hampshire	388	281	251	388	251	54.8
Rhode Island	.	.	.	.	.	-
Vermont	.	1	.	.	.	NM
Middle Atlantic Total	7,207	8,043	7,552	7,207	7,552	-4.6
New Jersey	468	479	369	468	369	26.7
New York	2,431	3,060	2,753	2,431	2,753	-11.7
Pennsylvania	4,308	4,504	4,430	4,308	4,430	-2.8
East North Central Total	28,263	26,299	29,768	28,263	29,768	-5.1
Illinois	5,466	5,518	5,263	5,466	5,263	3.9
Indiana	9,928	9,143	11,356	9,928	11,356	-12.6
Michigan	5,351	4,393	5,241	5,351	5,241	2.1
Ohio	3,107	2,948	3,579	3,107	3,579	-13.2
Wisconsin	4,412	4,298	4,329	4,412	4,329	1.9
West North Central Total	18,694	18,761	19,436	18,694	19,436	-3.8
Iowa	3,272	3,134	3,950	3,272	3,950	-17.2
Kansas	3,530	3,719	4,046	3,530	4,046	-12.7
Minnesota	4,741	4,712	4,022	4,741	4,022	17.9
Missouri	4,085	4,179	4,239	4,085	4,239	-3.6
Nebraska	2,285	2,037	2,162	2,285	2,162	5.6
North Dakota	260	324	518	260	518	-49.8
South Dakota	521	656	499	521	499	4.3
South Atlantic Total	23,423	27,190	24,463	23,423	24,463	-4.3
Delaware	416	516	413	416	413	.8
District of Columbia	19	12	24	19	24	-18.5
Florida	2,320	2,782	2,694	2,320	2,694	-13.9
Georgia	4,539	5,638	4,272	4,539	4,272	6.2
Maryland	1,932	1,859	1,702	1,932	1,702	13.5
North Carolina	5,716	7,096	5,690	5,716	5,690	.5
South Carolina	2,659	2,882	3,012	2,659	3,012	-11.7
Virginia	3,323	3,251	3,253	3,323	3,253	2.1
West Virginia	2,500	3,155	3,404	2,500	3,404	-26.6
East South Central Total	10,243	8,751	8,864	10,243	8,864	15.6
Alabama	2,809	2,642	2,289	2,809	2,289	22.7
Kentucky	3,604	2,832	3,093	3,604	3,093	16.5
Mississippi	353	343	462	353	462	-23.6
Tennessee	3,478	2,933	3,020	3,478	3,020	15.2
West South Central Total	21,226	24,080	22,781	21,226	22,781	-6.8
Arkansas	2,570	3,174	2,730	2,570	2,730	-5.9
Louisiana	1,188	1,084	1,282	1,188	1,282	-7.3
Oklahoma	4,274	4,689	3,932	4,274	3,932	8.7
Texas	13,194	15,134	14,837	13,194	14,837	-11.1
Mountain Total	13,848	13,887	13,307	13,848	13,307	4.1
Arizona	4,398	4,268	4,071	4,398	4,071	8.0
Colorado	3,378	2,846	3,009	3,378	3,009	12.3
Idaho	25	98	71	25	71	-65.0
Montana	227	264	222	227	222	2.2
Nevada	671	831	641	671	641	4.7
New Mexico	224	250	248	224	248	-9.9
Utah	1,931	2,087	1,486	1,931	1,486	30.0
Wyoming	2,994	3,243	3,559	2,994	3,559	-15.9
Pacific Total	1,427	1,971	1,402	1,427	1,402	1.8
Alaska	186	195	186	186	186	-.1
California	394	686	709	394	709	-44.4
Oregon	521	648	454	521	454	14.7
Washington	326	442	53	326	53	NM
U.S. Total	125,232	129,681	128,657	125,232	128,657	-2.7
Method of Transportation: River						
Middle Atlantic Total	4,149	4,410	4,722	4,149	4,722	-12.1
New Jersey	7	-	8	7	8	-2.6
New York	225	154	261	225	261	-13.8
Pennsylvania	3,917	4,256	4,454	3,917	4,454	-12.0
East North Central Total	9,054	10,567	10,499	9,054	10,499	-13.8

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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: River (Continued)						
Illinois	740	667	852	740	852	-13.1
Indiana	1,732	3,218	3,044	1,732	3,044	-43.1
Michigan	2	3	2	2	2	11.3
Ohio	6,494	6,675	6,442	6,494	6,442	.8
Wisconsin	86	3	160	86	160	-46.0
West North Central Total	949	752	1,281	949	1,281	-25.9
Iowa	122	54	323	122	323	-62.2
Kansas	18	20	-	18	-	-
Minnesota	2	13	20	2	20	-92.3
Missouri	808	665	937	808	937	-13.8
South Atlantic Total	7,335	7,096	6,182	7,335	6,182	18.6
Delaware	27	19	20	27	20	34.4
Florida	2,798	2,993	2,791	2,798	2,791	.3
Georgia	1,360	1,535	1,184	1,360	1,184	14.9
South Carolina	15	19	1	15	1	NM
Virginia	118	50	-	118	-	-
West Virginia	3,017	2,480	2,187	3,017	2,187	38.0
East South Central Total	9,546	9,458	8,034	9,546	8,034	18.8
Alabama	1,949	2,294	1,598	1,949	1,598	22.0
Kentucky	2,750	2,884	2,397	2,750	2,397	14.7
Mississippi	402	421	665	402	665	-39.5
Tennessee	4,445	3,858	3,374	4,445	3,374	31.7
West South Central Total	1,489	1,289	1,115	1,489	1,115	33.5
Arkansas	-	-	2	-	2	-
Louisiana	1,484	1,282	1,108	1,484	1,108	33.9
Oklahoma	6	7	6	6	6	-.3
U.S. Total	32,524	33,571	31,834	32,524	31,834	2.2
Method of Transportation: Great Lakes						
Middle Atlantic Total	-	143	1	-	1	-
New York	-	143	-	-	-	-
Pennsylvania	-	-	1	-	1	-
East North Central Total	1,245	3,759	1,618	1,245	1,618	-23.1
Illinois	-	49	21	-	21	-
Indiana	-	73	-	-	-	-
Michigan	1,158	3,026	1,465	1,158	1,465	-20.9
Ohio	-	118	12	-	12	-
Wisconsin	86	494	119	86	119	-27.4
West North Central Total	-	335	10	-	10	-
Minnesota	-	335	10	-	10	-
U.S. Total	1,245	4,238	1,628	1,245	1,628	-23.6
Method of Transportation: Tidewater						
New England Total	250	1,100	1,135	250	1,135	-78.0
Connecticut	221	198	267	221	267	-17.2
Maine	14	194	176	14	176	-91.9
Massachusetts	1	671	663	1	663	-99.9
New Hampshire	15	37	29	15	29	-50.6
Middle Atlantic Total	236	207	382	236	382	-38.3
New Jersey	236	207	382	236	382	-38.3
South Atlantic Total	1,160	930	1,114	1,160	1,114	4.1
Florida	519	270	624	519	624	-16.8
Maryland	427	538	252	427	252	69.5
Virginia	213	122	238	213	238	-10.5
U.S. Total	1,646	2,238	2,631	1,646	2,631	-37.5
Method of Transportation: Truck						
New England Total	18	37	33	18	33	-45.3
Connecticut	5	13	6	5	6	-20.1
Maine	2	4	3	2	3	-23.5
Massachusetts	7	9	16	7	16	-54.9
New Hampshire	2	5	3	2	3	-40.9
Rhode Island	1	2	1	1	1	-7.9

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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Truck (Continued)						
Vermont	1	4	4	1	4	-75.5
Middle Atlantic Total	3,934	3,649	3,610	3,934	3,610	9.0
New Jersey	6	5	5	6	5	16.5
New York	292	336	304	292	304	-4.1
Pennsylvania	3,637	3,308	3,300	3,637	3,300	10.2
East North Central Total	6,730	6,346	6,722	6,730	6,722	.1
Illinois	1,184	1,150	1,259	1,184	1,259	-5.9
Indiana	2,238	1,889	1,965	2,238	1,965	13.9
Michigan	181	148	131	181	131	37.9
Ohio	3,121	3,159	3,362	3,121	3,362	-7.1
Wisconsin	6	1	6	6	6	-6
West North Central Total	1,436	1,658	1,589	1,436	1,589	-9.6
Iowa	105	94	88	105	88	20.0
Kansas	63	71	74	63	74	-14.3
Missouri	196	305	247	196	247	-20.9
Nebraska	-	-	-	-	-	-
North Dakota	947	1,058	1,106	947	1,106	-14.4
South Dakota	125	130	74	125	74	68.3
South Atlantic Total	2,107	2,013	2,276	2,107	2,276	-7.4
Delaware	4	3	1	4	1	362.3
District of Columbia	7	1	5	7	5	43.9
Florida	11	-	2	11	2	469.8
Georgia	56	88	57	56	57	-1.2
Maryland	230	248	172	230	172	33.6
North Carolina	104	124	102	104	102	1.9
South Carolina	65	69	70	65	70	-7.5
Virginia	352	166	270	352	270	30.4
West Virginia	1,277	1,312	1,597	1,277	1,597	-20.0
East South Central Total	5,223	5,268	4,575	5,223	4,575	14.2
Alabama	2,252	2,178	2,262	2,252	2,262	-4
Kentucky	2,609	2,818	2,075	2,609	2,075	25.8
Mississippi	36	27	13	36	13	186.3
Tennessee	326	245	225	326	225	44.6
West South Central Total	3,786	3,823	3,468	3,786	3,468	9.2
Arkansas	42	40	26	42	26	57.8
Louisiana	97	120	113	97	113	-14.5
Oklahoma	414	407	348	414	348	19.1
Texas	3,233	3,257	2,980	3,233	2,980	8.5
Mountain Total	3,257	4,080	3,786	3,257	3,786	-14.0
Arizona	17	2	16	17	16	.2
Colorado	823	1,013	1,111	823	1,111	-25.9
Idaho	39	38	34	39	34	16.9
Montana	98	114	91	98	91	8.1
Nevada	31	21	16	31	16	98.0
New Mexico	21	23	19	21	19	15.5
Utah	1,436	1,834	1,616	1,436	1,616	-11.1
Wyoming	791	1,035	884	791	884	-10.5
Pacific Total	110	95	98	110	98	13.3
Alaska	54	44	45	54	45	21.0
California	14	31	52	14	52	-73.6
Oregon	-	-	-	-	-	NM
Washington	42	19	-	42	-	NM
U.S. Total	26,601	26,970	26,156	26,601	26,156	1.7
Method of Transportation: Tramway, Conveyor and Slurry Pipeline						
Middle Atlantic Total	1,647	1,865	1,884	1,647	1,884	-12.6
Pennsylvania	1,647	1,865	1,884	1,647	1,884	-12.6
East North Central Total	2,746	2,155	3,284	2,746	3,284	-16.4
Illinois	386	224	652	386	652	-40.8
Indiana	178	166	163	178	163	9.1
Ohio	2,182	1,766	2,469	2,182	2,469	-11.6
West North Central Total	6,563	7,190	6,602	6,563	6,602	-.6
Missouri	174	506	561	174	561	-68.9
North Dakota	6,388	6,684	6,041	6,388	6,041	5.7
South Atlantic Total	1,441	1,509	1,692	1,441	1,692	-14.8
Virginia	224	191	242	224	242	-7.2
West Virginia	1,217	1,318	1,450	1,217	1,450	-16.1

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	January- March 1993	October- December 1992	January- March 1992	Year to Date		
				1993	1992	Percent Change
Method of Transportation: Tramway, Conveyor and Slurry Pipeline (Continued)						
East South Central Total	446	710	1,147	446	1,147	-61.1
Alabama	446	408	492	446	492	-9.4
Kentucky	-	302	655	-	655	-
West South Central Total	4,981	4,517	4,253	4,981	4,253	17.1
Louisiana	645	656	443	645	443	45.8
Texas	4,336	3,861	3,810	4,336	3,810	13.8
Mountain Total	10,406	10,400	10,767	10,406	10,767	-3.4
Montana	2,514	2,709	2,762	2,514	2,762	-9.0
Nevada	1,171	1,043	1,375	1,171	1,375	-14.8
New Mexico	3,190	3,850	3,038	3,190	3,038	5.0
Utah	719	715	847	719	847	-15.0
Wyoming	2,812	2,084	2,745	2,812	2,745	2.4
Pacific Total	1,145	1,171	1,212	1,145	1,212	-5.5
Washington	1,145	1,171	1,212	1,145	1,212	-5.5
U.S. Total	29,375	29,516	30,841	29,375	30,841	-4.8

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

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

Notes: Total may not equal sum of components because of independent rounding. 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	January - March 1993			October - December 1992	January - March 1992	Year to Date		
	Used By Producing Companies	Commercial Sales	Total			1993	1992	Percent Change
Coke Total	5,454	2,075	7,529	7,655	7,195	7,529	7,195	4.6
By Consumer Category								
Blast Furnaces	5,422	1,612	7,034	7,168	6,741	7,034	6,741	4.3
Foundries	17	341	359	312	322	359	322	11.4
Other Industrial Plants	14	122	136	175	132	136	132	3.2
By Plant Type								
Merchant Coke Plants	2	808	810	807	802	810	802	1.0
Furnace Coke Plants	5,451	1,267	6,719	6,848	6,393	6,719	6,393	5.1
Breeze Total	162	285	447	540	526	447	526	-14.9

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	NA	NA	NA	NA	NA	NA	18,870	1,213

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	32.70	NA	NA	NA	NA	NA	NA	NA	NA

NA Not available.

Notes: Exports: Average price is based on the free alongside ship (f.a.s.) value. Imports: Average price is based on the customs import value.

More detailed data included in Table A4. Total may not equal sum of components because of independent rounding.

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

Figure 7. Quarterly U.S. Coal Exports and Imports, 1985-1993

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

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

Continent and Country of Destination	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	367,570	4,298,168	1,237,016	367,570	1,237,016	-70.3
Canada ¹	258,604	4,245,647	1,173,572	258,604	1,173,572	-78.0
Dominican Republic	163	26,515	16,649	163	16,649	-99.0
Jamaica	-	13,698	-	-	-	-
Mexico	108,676	10,138	46,510	108,676	46,510	133.7
Other ²	127	2,170	285	127	285	-55.4
South America Total	1,865,760	1,560,782	1,581,494	1,865,760	1,581,494	18.0
Argentina	157,385	32,307	96,269	157,385	96,269	63.5
Brazil	1,701,969	1,526,774	1,483,859	1,701,969	1,483,859	14.7
Other ²	6,406	1,701	1,566	6,406	1,566	309.1
Europe Total	11,068,290	12,383,327	16,094,981	11,068,290	16,094,981	-31.2
Albania	-	-	22,284	-	22,284	-
Belgium & Luxembourg	900,791	1,727,298	1,908,691	900,791	1,908,691	-52.8
Bulgaria	222,682	221,250	111,764	222,682	111,764	99.2
Denmark	230,243	557,463	1,062,117	230,243	1,062,117	-78.3
Finland	72,778	-	-	72,778	-	-
France	1,765,642	1,544,468	2,821,869	1,765,642	2,821,869	-37.4
Germany, FR	321,459	92,006	317,671	321,459	317,671	1.2
Ireland	248,252	352,498	352,118	248,252	352,118	-29.5
Italy	1,779,586	2,105,772	2,840,583	1,779,586	2,840,583	-37.4
Netherlands	1,914,534	1,986,200	2,303,005	1,914,534	2,303,005	-16.9
Norway	25,023	21,668	24,249	25,023	24,249	3.2
Portugal	545,789	190,483	331,700	545,789	331,700	64.5
Romania	309,577	183,184	151,193	309,577	151,193	104.8
Spain	907,244	936,768	1,443,387	907,244	1,443,387	-37.1
Sweden	167,064	491,129	164,155	167,064	164,155	1.8
Turkey	389,043	497,184	277,101	389,043	277,101	40.4
United Kingdom	1,225,756	1,306,881	1,597,744	1,225,756	1,597,744	-23.3
Yugoslavia	42,827	169,075	357,563	42,827	357,563	-88.0
Other ²	-	-	7,787	-	7,787	-
Asia Total	5,039,956	5,345,696	5,059,428	5,039,956	5,059,428	-4
China (Taiwan)	789,961	830,390	695,231	789,961	695,231	13.6
Hong Kong	-	122,813	-	-	-	-
Israel	121,848	122,100	123,925	121,848	123,925	-1.7
Japan	3,439,611	3,103,948	3,491,278	3,439,611	3,491,278	-1.5
Korea, Republic of	688,208	1,027,598	746,776	688,208	746,776	-7.8
Other ²	328	138,847	2,218	328	2,218	-85.2
Oceania & Australia Total	342	-	286	342	286	19.6
Africa Total	527,858	706,171	757,825	527,858	757,825	-30.3
Algeria	118,447	170,886	127,107	118,447	127,107	-6.8
Egypt	176,325	194,129	303,838	176,325	303,838	-42.0
Morocco	147,843	207,137	178,192	147,843	178,192	-17.0
South Africa, Rep of	85,243	134,019	148,688	85,243	148,688	-42.7
Total	18,869,776	24,294,144	24,731,030	18,869,776	24,731,030	-23.7

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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$39.56	\$32.74	\$32.65	\$39.56	\$32.65	21.2
Canada ¹	37.36	32.71	32.11	37.36	32.11	16.4
Dominican Republic	40.73	35.06	35.80	40.73	35.80	13.8
Mexico	44.60	39.24	45.04	44.60	45.04	-1.0
Other ²	40.63	40.29	34.62	40.63	34.62	17.4
South America Total	44.58	45.21	45.66	44.58	45.66	-2.4
Argentina	43.19	45.26	44.67	43.19	44.67	-3.3
Brazil	44.73	45.21	45.73	44.73	45.73	-2.2
Other ²	39.39	38.85	40.17	39.39	40.17	-1.9
Europe Total	42.79	43.07	42.62	42.79	42.62	.4
Belgium & Luxembourg	43.35	42.97	44.17	43.35	44.17	-1.8
Bulgaria	42.23	42.90	43.59	42.23	43.59	-3.1
Denmark	34.34	31.17	33.94	34.34	33.94	1.2
Finland	36.97	-	-	36.97	-	-
France	39.85	41.17	38.23	39.85	38.23	4.3
Germany, FR	38.32	38.11	38.30	38.32	38.30	.
Ireland	38.70	37.95	36.02	38.70	36.02	7.4
Italy	44.09	44.45	45.87	44.09	45.87	-3.9
Netherlands	44.55	43.28	43.30	44.55	43.30	2.9
Norway	-	-	42.27	-	42.27	-
Portugal	38.56	40.83	41.19	38.56	41.19	-6.4
Romania	37.12	38.31	45.51	37.12	45.51	-18.4
Spain	46.73	47.53	46.52	46.73	46.52	.4
Sweden	46.36	46.22	46.43	46.36	46.43	-.1
Turkey	43.04	45.22	46.65	43.04	46.65	-7.7
United Kingdom	45.65	45.80	46.56	45.65	46.56	-2.0
Yugoslavia	48.31	46.81	44.04	48.31	44.04	9.7
Asia Total	41.30	41.93	43.80	41.30	43.80	-5.7
China (Taiwan)	40.09	40.07	40.97	40.09	40.97	-2.2
Hong Kong	-	37.56	-	-	-	-
Israel	35.11	37.84	39.92	35.11	39.92	-12.0
Japan	41.42	41.96	44.21	41.42	44.21	-6.3
Korea, Republic of	43.16	45.19	45.17	43.16	45.17	-4.5
Other ²	44.27	35.73	40.26	44.27	40.26	10.0
Oceania & Australia Total	34.43	-	34.50	34.43	34.50	-.2
Africa Total	42.53	42.73	43.74	42.53	43.74	-2.8
Algeria	45.01	46.54	47.73	45.01	47.73	-5.7
Egypt	46.44	45.97	45.54	46.44	45.54	2.0
Morocco	33.92	33.98	33.63	33.92	33.63	.9
South Africa, Rep of	45.92	46.72	48.76	45.92	48.76	-5.8
Total³	42.49	41.14	42.59	42.49	42.59	-.2
U.S. Total⁴	42.46	41.07	42.28	42.46	42.28	.4

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.

⁵ Rounded to zero

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

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

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

Continent and Country of Destination	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	79,750	2,919,921	993,616	79,750	993,616	-92.0
Canada ¹	56,243	2,867,422	966,213	56,243	966,213	-94.2
Dominican Republic	163	26,515	16,649	163	16,649	-99.0
Jamaica	-	13,698	-	-	-	-
Mexico	23,217	10,138	10,469	23,217	10,469	121.8
Other ²	127	2,148	285	127	285	-55.4
South America Total	169,904	68,016	1,983	169,904	1,983	(³)
Argentina	67	1,753	347	67	347	-80.7
Brazil	163,431	64,562	50	163,431	50	(³)
Other ²	6,406	1,701	1,566	6,406	1,566	309.1
Europe Total	4,170,935	4,846,705	7,014,886	4,170,935	7,014,886	-40.5
Belgium & Luxembourg	209,758	531,823	498,318	209,758	498,318	-57.9
Denmark	230,243	557,463	1,062,117	230,243	1,062,117	-78.3
France	775,442	494,081	1,567,006	775,442	1,567,006	-50.5
Germany, FR	224,448	92,006	294,640	224,448	294,640	-23.8
Ireland	248,252	352,498	352,118	248,252	352,118	-29.5
Italy	640,240	856,163	1,019,406	640,240	1,019,406	-37.2
Netherlands	697,094	982,953	1,012,764	697,094	1,012,764	-31.2
Norway	5,616	6,516	6,587	5,616	6,587	-14.7
Portugal	497,298	190,483	285,270	497,298	285,270	74.3
Romania	121,700	-	-	121,700	-	-
Spain	210,338	271,180	671,475	210,338	671,475	-68.7
Sweden	-	-	247	-	247	-
Turkey	312	-	71	312	71	339.4
United Kingdom	310,194	311,539	244,867	310,194	244,867	26.7
Asia Total	2,186,612	2,179,964	1,408,756	2,186,612	1,408,756	55.2
China (Taiwan)	699,024	719,878	587,720	699,024	587,720	18.9
Hong Kong	-	122,813	-	-	-	-
Israel	121,848	122,100	123,889	121,848	123,889	-1.6
Japan	1,189,581	917,530	538,150	1,189,581	538,150	121.1
Korea, Republic of	175,831	158,796	156,779	175,831	156,779	12.2
Other ²	328	138,847	2,218	328	2,218	-85.2
Oceania & Australia Total	342	-	286	342	286	19.6
Africa Total	147,843	207,873	178,192	147,843	178,192	-17.0
Egypt	-	736	-	-	-	-
Morocco	147,843	207,137	178,192	147,843	178,192	-17.0
Total	6,755,386	10,022,479	9,597,699	6,755,386	9,597,699	-29.6

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 Changes of 500 percent or more are not shown.

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

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

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

Continent and Country of Destination	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$35.62	\$31.28	\$31.34	\$35.62	\$31.34	13.6
Canada ¹	31.59	31.22	31.23	31.59	31.23	1.2
Dominican Republic	40.73	35.06	35.80	40.73	35.80	13.8
Mexico	43.81	39.24	35.00	43.81	35.00	25.2
Other ²	40.63	40.29	34.62	40.63	34.62	17.4
South America Total	40.60	43.06	40.26	40.60	40.26	.8
Argentina	-	34.48	40.80	-	40.80	-
Brazil	40.65	43.21	-	40.65	-	-
Other ²	39.39	38.85	40.17	39.39	40.17	-1.9
Europe Total	37.39	37.54	36.91	37.39	36.91	1.3
Belgium & Luxembourg	37.05	35.81	36.88	37.05	36.88	.4
Denmark	34.34	31.17	33.94	34.34	33.94	1.2
France	31.87	32.41	33.89	31.87	33.89	-6.0
Germany, FR	34.64	38.11	37.63	34.64	37.63	-7.9
Ireland	38.70	37.95	36.02	38.70	36.02	7.4
Italy	39.93	41.72	41.83	39.93	41.83	-4.5
Netherlands	40.90	39.42	38.59	40.90	38.59	6.0
Portugal	38.82	40.83	40.40	38.82	40.40	-3.9
Romania	36.29	-	-	36.29	-	-
Spain	35.19	42.79	37.44	35.19	37.44	-6.0
Sweden	-	-	34.53	-	34.53	-
Turkey	40.84	-	40.76	40.84	40.76	.2
United Kingdom	40.11	39.26	37.83	40.11	37.83	6.0
Asia Total	36.69	36.84	38.37	36.69	38.37	-4.4
China (Taiwan)	39.36	39.25	40.09	39.36	40.09	-1.8
Hong Kong	-	37.56	-	-	-	-
Israel	35.11	37.84	39.92	35.11	39.92	-12.0
Japan	35.58	35.27	35.97	35.58	35.97	-1.1
Korea, Republic of	34.69	34.69	38.94	34.69	38.94	-10.9
Other ²	44.27	35.73	40.26	44.27	40.26	10.0
Oceania & Australia Total	34.43	-	34.50	34.43	34.50	-.2
Africa Total	33.92	34.00	33.63	33.92	33.63	.9
Egypt	-	39.92	-	-	-	-
Morocco	33.92	33.98	33.63	33.92	33.63	.9
Total³	37.14	35.53	36.46	37.14	36.46	1.9
U.S. Total⁴	36.90	35.55	35.74	36.90	35.74	3.2

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

² Includes countries with exports less than or equal to 50,000 short tons in 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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	287,820	1,378,247	243,400	287,820	243,400	18.2
Canada ¹	202,361	1,378,225	207,359	202,361	207,359	-2.4
Mexico	85,459	-	36,041	85,459	36,041	137.1
Other ²	-	22	-	-	-	-
South America Total	1,695,856	1,492,766	1,579,531	1,695,856	1,579,531	7.4
Argentina	157,318	30,554	95,922	157,318	95,922	64.0
Brazil	1,538,538	1,462,212	1,483,609	1,538,538	1,483,609	3.7
Europe Total	6,697,355	7,736,622	9,080,095	6,697,355	9,080,095	-24.0
Albania	-	-	22,284	-	22,284	-
Belgium & Luxembourg	691,033	1,195,475	1,410,373	691,033	1,410,373	-51.0
Bulgaria	222,682	221,250	111,764	222,682	111,764	99.2
Finland	72,778	-	-	72,778	-	-
France	990,200	1,050,387	1,254,863	990,200	1,254,863	-21.1
Germany, FR	97,011	-	23,031	97,011	23,031	321.2
Italy	1,139,346	1,249,609	1,821,177	1,139,346	1,821,177	-37.4
Netherlands	1,217,440	1,003,247	1,290,241	1,217,440	1,290,241	-5.6
Norway	19,407	15,152	17,662	19,407	17,662	9.9
Portugal	48,491	-	46,430	48,491	46,430	4.4
Romania	187,877	183,184	151,193	187,877	151,193	24.3
Spain	696,906	665,588	771,912	696,906	771,912	-9.7
Sweden	167,064	491,129	163,908	167,064	163,908	1.9
Turkey	388,731	487,184	277,030	388,731	277,030	40.3
United Kingdom	915,562	995,342	1,352,877	915,562	1,352,877	-32.3
Yugoslavia	42,827	169,075	357,563	42,827	357,563	-88.0
Other ²	-	-	7,787	-	7,787	-
Asia Total	2,853,344	3,165,732	3,650,672	2,853,344	3,650,672	-21.8
China (Taiwan)	90,937	110,512	107,511	90,937	107,511	-15.4
Israel	-	-	36	-	36	-
Japan	2,250,030	2,186,418	2,953,128	2,250,030	2,953,128	-23.8
Korea, Republic of	512,377	868,802	589,997	512,377	589,997	-13.2
Africa Total	380,015	498,298	579,633	380,015	579,633	-34.4
Algeria	118,447	170,886	127,107	118,447	127,107	-6.8
Egypt	176,325	193,393	303,838	176,325	303,838	-42.0
South Africa, Rep of	85,243	134,019	148,688	85,243	148,688	-42.7
Total	12,114,390	14,271,665	15,133,331	12,114,390	15,133,331	-19.9

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

² Includes countries with exports less than or equal to 50,000 short tons in 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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$40.53	\$35.69	\$37.98	\$40.53	\$37.98	6.7
Canada ¹	38.72	35.69	36.25	38.72	36.25	6.8
Mexico	44.82	-	47.92	44.82	47.92	-6.5
South America Total	44.98	45.29	45.67	44.98	45.67	-1.5
Argentina	43.19	45.31	44.68	43.19	44.68	-3.3
Brazil	45.17	45.29	45.73	45.17	45.73	-1.2
Europe Total	46.03	46.23	46.81	46.03	46.81	-1.7
Belgium & Luxembourg	45.47	46.15	46.75	45.47	46.75	-2.7
Bulgaria	42.23	42.90	43.59	42.23	43.59	-3.1
Finland	36.97	-	-	36.97	-	-
France	46.10	45.29	43.80	46.10	43.80	5.3
Germany, FR	46.84	-	46.93	46.84	46.93	-.2
Italy	46.43	46.32	48.13	46.43	48.13	-3.5
Netherlands	46.64	47.06	47.00	46.64	47.00	-.8
Norway	-	-	42.27	-	42.27	-
Portugal	35.95	-	46.04	35.95	46.04	-21.9
Romania	38.24	38.31	45.51	38.24	45.51	-16.0
Spain	47.95	47.85	49.11	47.95	49.11	-2.3
Sweden	46.36	46.22	46.45	46.36	46.45	-.2
Turkey	43.04	45.22	46.66	43.04	46.66	-7.7
United Kingdom	47.52	47.85	47.92	47.52	47.92	-.8
Yugoslavia	48.31	46.81	44.04	48.31	44.04	9.7
Asia Total	44.82	45.43	45.89	44.82	45.89	-2.3
China (Taiwan)	45.69	45.41	45.81	45.69	45.81	-.3
Japan	44.51	44.76	45.71	44.51	45.71	-2.6
Korea, Republic of	46.06	47.11	46.82	46.06	46.82	-1.6
Africa Total	45.88	46.37	46.85	45.88	46.85	-2.1
Algeria	45.01	46.54	47.73	45.01	47.73	-5.7
Egypt	46.44	45.99	45.54	46.44	45.54	2.0
South Africa, Rep of	45.92	46.72	48.76	45.92	48.76	-5.8
Total²	45.45	44.94	46.32	45.45	46.32	-1.9
U.S. Total³	45.57	44.95	46.43	45.57	46.43	-1.9

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

² 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.

³ 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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
Eastern Total	12,527,126	14,703,886	17,131,842	12,527,126	17,131,842	-26.9
Baltimore, MD	1,837,705	2,029,537	2,296,061	1,837,705	2,296,061	-20.0
Portland, ME	170	-	-	170	-	-
Buffalo, NY	11,721	494,088	38,168	11,721	38,168	-69.3
New York City, NY	216	423	1,110	216	1,110	-80.5
Ogdensburg, NY	2,797	45,242	2,717	2,797	2,717	2.9
Philadelphia, PA	968	101,078	562	968	562	72.2
Norfolk, VA	10,673,549	12,033,518	14,793,047	10,673,549	14,793,047	-27.8
St. Albans, VT	-	-	177	-	177	-
Southern Total	5,043,689	4,686,584	5,722,622	5,043,689	5,722,622	-11.9
Mobile, AL	1,567,711	1,705,285	2,152,894	1,567,711	2,152,894	-27.2
Savannah, GA	-	853	34,955	-	34,955	-
Miami, FL	753	271	258	753	258	191.9
New Orleans, LA	3,182,572	2,756,458	3,395,360	3,182,572	3,395,360	-6.3
Charleston, SC	217,391	171,339	90,693	217,391	90,693	139.7
El Paso, TX	-	90	-	-	-	-
Houston-Galveston, TX	52,475	44,495	39,502	52,475	39,502	32.8
Laredo, TX	22,787	7,793	8,960	22,787	8,960	154.3
Western Total	1,113,603	1,293,819	743,047	1,113,603	743,047	49.9
Anchorage, AK	175,831	158,796	156,167	175,831	156,167	12.6
Nogales, AZ	62	198	-	62	-	-
Los Angeles, CA	877,715	1,116,410	552,398	877,715	552,398	58.9
San Diego, CA	424	2,057	1,608	424	1,608	-73.6
Seattle, WA	59,571	16,358	32,874	59,571	32,874	81.2
Northern Total	180,226	3,603,650	1,130,148	180,226	1,130,148	-84.1
Detroit, MI	2,975	635,061	62,678	2,975	62,678	-95.3
Duluth, MN	-	-	118,782	-	118,782	-
Pembina, ND	-	129	-	-	-	-
Cleveland, OH	177,251	2,968,460	948,688	177,251	948,688	-81.3
Other Ports	5,132	6,205	3,371	5,132	3,371	52.2
Total	18,869,776	24,294,144	24,731,030	18,869,776	24,731,030	-23.7

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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	52,229	116,281	41,897	52,229	41,897	24.7
Canada ¹	35,281	100,154	17,195	35,281	17,195	105.2
Mexico	16,328	15,761	24,339	16,328	24,339	-32.9
Other ²	620	366	363	620	363	70.8
South America Total	11,364	7,331	45,287	11,364	45,287	-74.9
Europe Total	31,243	592	19,446	31,243	19,446	60.7
Asia Total	116	49	9,244	116	9,244	-98.7
Total	94,952	124,253	115,874	94,952	115,874	-18.1

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

² Includes countries with exports less than or equal to 50,000 short tons in 1992.

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

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

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

Continent and Country of Origin	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	174,159	292,956	257,583	174,159	257,583	-32.4
Canada	174,159	292,956	257,583	174,159	257,583	-32.4
South America Total	796,587	751,688	390,120	796,587	390,120	104.2
Colombia	552,051	505,173	241,483	552,051	241,483	128.6
Venezuela	244,536	246,515	148,637	244,536	148,637	64.5
Asia Total	242,374	119,573	-	242,374	-	-
India	-	66,154	-	-	-	-
Indonesia	242,374	-	-	242,374	-	-
Malaysia	-	53,419	-	-	-	-
Oceania & Australia Total	-	28,624	31,131	-	31,131	-
Australia	-	28,624	31,131	-	31,131	-
Africa Total	-	5,762	-	-	-	-
South Africa, Rep of	-	5,762	-	-	-	-
Total	1,213,120	1,198,603	678,834	1,213,120	678,834	76.7

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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$22.55	\$34.31	\$24.65	\$22.55	\$24.65	-8.5
Canada	22.55	34.31	24.65	22.55	24.65	-8.5
South America Total	28.81	30.66	37.74	28.81	37.74	-23.7
Colombia	29.06	30.52	33.64	29.06	33.64	-13.6
Venezuela	28.26	30.96	44.41	28.26	44.41	-36.4
Asia Total	38.93	34.11	-	38.93	-	-
India	-	23.65	-	-	-	-
Indonesia	38.93	-	-	38.93	-	-
Malaysia	-	47.06	-	-	-	-
Oceania & Australia Total	-	33.67	33.38	-	33.38	-
Australia	-	33.67	33.38	-	33.38	-
Africa Total	-	49.29	-	-	-	-
South Africa, Rep of	-	49.29	-	-	-	-
Total¹	30.09	31.95	32.74	30.09	32.74	-8.1
U.S. Total²	30.70	33.08	33.63	30.70	33.63	-8.7

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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
Eastern Total	143,279	119,796	127,370	143,279	127,370	12.5
Boston, MA	89,276	59,537	34,681	89,276	34,681	157.4
Portland, ME	26,479	26,249	58,345	26,479	58,345	-54.6
Philadelphia, PA	27,524	34,010	34,344	27,524	34,344	-19.9
Southern Total	727,864	723,929	262,750	727,864	262,750	177.0
Mobile, AL	140,644	-	-	140,644	-	-
Tampa, FL	407,446	407,258	149,913	407,446	149,913	171.8
New Orleans, LA	70,272	154,600	-	70,272	-	-
San Juan, PR	55,363	59,856	26,857	55,363	26,857	106.1
Houston-Galveston, TX	-	40,982	-	-	-	-
Virgin Islands	54,139	61,233	85,980	54,139	85,980	-37.0
Western Total	189,983	93,893	46,505	189,983	46,505	308.5
Honolulu, HI	167,818	82,043	31,131	167,818	31,131	439.1
Great Falls, MT	11,141	10,793	10,354	11,141	10,354	7.6
Seattle, WA	11,024	1,057	5,020	11,024	5,020	119.6
Northern Total	151,994	260,985	242,209	151,994	242,209	-37.2
Chicago, IL	-	91,013	56,832	-	56,832	-
Detroit, MI	-	58,937	-	-	-	-
Duluth, MN	212	-	-	212	-	-
Pembina, ND	151,782	111,035	185,377	151,782	185,377	-18.1
Total	1,213,120	1,198,603	678,834	1,213,120	678,834	78.7

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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	6,012	13,695	9,747	6,012	9,747	-38.3
Canada	6,012	13,695	9,747	6,012	9,747	-38.3
Europe Total	-	26,267	-	-	-	-
United Kingdom	-	26,267	-	-	-	-
Asia Total	306,302	379,534	451,527	306,302	451,527	-32.2
Japan	306,302	379,534	451,527	306,302	451,527	-32.2
Oceania & Australia Total	47,811	48,477	47,058	47,811	47,058	1.6
Australia	47,811	48,477	47,058	47,811	47,058	1.6
Total	360,125	487,973	508,332	360,125	508,332	-29.2

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-8, "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	18,185	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	17,835	1,843	218,227
April - June	187,772	7,915	17,804	1,149	214,639
July - September	201,143	7,582	18,437	1,236	228,407
October - December	196,909	8,110	19,568	1,925	226,512
Total	775,963	32,027	73,643	6,153	887,786
1993 January - March	188,342	7,951	18,245	2,052	216,590
Total	188,342	7,951	18,245	2,052	216,590

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

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

Figure 9. Quarterly Average Price of U.S. Coal Receipts, 1985-1993

Note: Each increment represents end-of-quarter data.
 Sources: Energy Information Administration (EIA), Electric Utilities: Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" Coke Plants: Form EIA-6, "Coke Plant Report - Quarterly;" Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

Table 29. Average Price of U.S. Coal Receipts by End-Use Sector, 1985-1993
(Dollars per Short Ton)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial ¹
1985 January - March	\$34.63	\$55.15	\$38.36
April - June	35.04	54.48	37.74
July - September	34.32	53.69	36.29
October - December	34.15	53.91	36.67
Average Annual Price	34.53	54.30	37.21
1986 January - March	33.87	52.05	36.80
April - June	34.43	51.01	35.76
July - September	32.79	51.34	35.17
October - December	32.19	48.65	35.60
Average Annual Price	33.30	50.83	35.84
1987 January - March	32.08	46.60	33.92
April - June	32.74	46.24	33.94
July - September	31.47	46.51	33.23
October - December	31.15	46.85	33.75
Average Annual Price	31.83	46.55	33.71
1988 January - March	31.08	47.02	33.91
April - June	31.09	48.04	32.73
July - September	30.28	48.13	33.44
October - December	30.20	47.66	33.59
Average Annual Price	30.64	47.70	33.43
1989 January - March	30.11	47.36	33.19
April - June	30.30	47.23	32.68
July - September	30.00	48.10	32.61
October - December	30.17	47.28	33.61
Average Annual Price	30.15	47.50	33.03
1990 January - March	30.61	47.40	33.33
April - June	30.89	47.65	33.73
July - September	30.16	47.76	33.00
October - December	30.16	48.15	34.30
Average Annual Price	30.45	47.73	33.59
1991 January - March	30.23	48.12	34.24
April - June	30.77	49.44	33.76
July - September	29.61	48.96	32.89
October - December	29.53	49.00	33.26
Average Annual Price	30.02	48.88	33.54
1992 January - March	29.48	47.88	33.64
April - June	29.76	48.22	32.00
July - September	29.01	48.06	32.42
October - December	29.21	47.51	33.31
Average Annual Price	29.36	47.92	32.85
1993 January - March	28.65	48.50	32.90

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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
New England Total	1,661	1,835	2,073	1,661	2,073	-19.9
Connecticut	244	189	246	244	246	-.9
Maine	66	206	373	66	373	-82.4
Massachusetts	918	1,116	1,105	918	1,105	-16.9
New Hampshire	431	318	342	431	342	25.9
Rhode Island	1	2	1	1	1	-7.9
Vermont	1	4	5	1	5	-68.2
Middle Atlantic Total	17,145	18,678	17,893	17,145	17,893	-4.2
New Jersey	725	702	695	725	695	4.3
New York	2,762	3,602	3,160	2,762	3,160	-12.6
Pennsylvania	13,659	14,374	14,038	13,659	14,038	-2.7
East North Central Total	46,041	48,978	48,931	46,041	48,931	-5.9
Illinois	8,287	7,718	8,293	8,287	8,293	-.1
Indiana	13,936	13,846	15,758	13,936	15,758	-11.6
Michigan	4,457	8,070	4,720	4,457	4,720	-5.6
Ohio	14,973	14,667	15,749	14,973	15,749	-4.9
Wisconsin	4,387	4,676	4,412	4,387	4,412	-.5
West North Central Total	28,367	29,141	29,159	28,367	29,159	-2.7
Iowa	3,844	3,750	4,203	3,844	4,203	-8.5
Kansas	3,460	3,222	3,779	3,460	3,779	-8.4
Minnesota	4,642	4,687	4,023	4,642	4,023	15.4
Missouri	5,431	6,526	6,480	5,431	6,480	-16.2
Nebraska	2,402	2,015	2,171	2,402	2,171	10.7
North Dakota	8,002	8,223	7,961	8,002	7,961	.5
South Dakota	586	717	544	586	544	7.8
South Atlantic Total	34,273	38,134	35,010	34,273	35,010	-2.1
Delaware	528	455	457	528	457	15.5
District of Columbia	26	13	28	26	28	-8.1
Florida	6,253	6,390	6,280	6,253	6,280	-.4
Georgia	5,971	7,356	5,756	5,971	5,756	3.7
Maryland	2,373	2,540	2,237	2,373	2,237	6.1
North Carolina	5,344	6,875	5,278	5,344	5,278	1.2
South Carolina	2,883	3,074	2,904	2,883	2,904	-.7
Virginia	3,298	3,363	3,665	3,298	3,665	-10.0
West Virginia	7,598	8,070	8,404	7,598	8,404	-9.6
East South Central Total	26,199	25,082	23,320	26,199	23,320	12.3
Alabama	7,948	8,238	7,679	7,948	7,679	3.5
Kentucky	9,843	10,116	8,654	9,843	8,654	13.7
Mississippi	752	720	779	752	779	-3.5
Tennessee	7,655	6,009	6,207	7,655	6,207	23.3
West South Central Total	32,570	33,498	31,774	32,570	31,774	2.5
Arkansas	2,626	3,230	2,880	2,626	2,880	-8.8
Louisiana	3,239	3,103	2,843	3,239	2,843	13.9
Oklahoma	4,443	4,946	4,156	4,443	4,156	6.9
Texas	22,262	22,218	21,895	22,262	21,895	1.7
Mountain Total	27,714	28,009	27,457	27,714	27,457	.9
Arizona	4,403	4,270	4,087	4,403	4,087	7.7
Colorado	4,320	3,832	4,143	4,320	4,143	4.3
Idaho	124	149	183	124	183	-32.5
Montana	2,838	3,085	3,073	2,838	3,073	-7.7
Nevada	1,866	1,909	2,067	1,866	2,067	-9.7
New Mexico	3,380	4,200	3,296	3,380	3,296	2.6
Utah	4,115	3,837	3,744	4,115	3,744	9.9
Wyoming	6,669	6,727	6,864	6,669	6,864	-2.8
Pacific Total	2,620	3,157	2,611	2,620	2,611	.3
Alaska	160	157	149	160	149	7.3
California	411	681	718	411	718	-42.8
Hawaii	-	12	-	-	-	-
Oregon	536	648	459	536	459	16.7
Washington	1,512	1,658	1,284	1,512	1,284	17.8
U.S. Total	216,590	226,512	216,227	216,590	216,227	-.8

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	January-March 1993		January-March 1992		Year to Date					
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	1993		1992		Percent Change	
					Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	1,490	169	1,623	174	1,490	169	1,623	174	-8.2	-3.1
Connecticut	239	169	240	204	239	169	240	204	-.4	-17.2
Massachusetts	885	170	1,045	169	885	170	1,045	169	-15.3	.5
New Hampshire	365	167	337	169	365	167	337	169	8.2	-1.6
Mid Atlantic	12,427	147	13,142	158	12,427	147	13,142	158	-5.4	-7.1
New Jersey	639	179	624	174	639	179	624	174	2.3	2.5
New York	2,112	148	2,408	154	2,112	148	2,408	154	-12.3	-4.1
Pennsylvania	9,676	144	10,110	158	9,676	144	10,110	158	-4.3	-8.6
East North Central	38,140	141	41,168	146	38,140	141	41,168	146	-7.4	-3.5
Illinois	6,438	174	6,841	171	6,438	174	6,841	171	-5.9	1.8
Indiana	10,798	127	12,671	132	10,798	127	12,671	132	-14.8	-4.0
Michigan	3,939	154	4,216	159	3,939	154	4,216	159	-6.6	-3.1
Ohio	13,009	139	13,423	144	13,009	139	13,423	144	-3.1	-3.7
Wisconsin	3,957	119	4,017	141	3,957	119	4,017	141	-1.5	-15.8
West North Central	25,160	102	26,168	110	25,160	102	26,168	110	-3.9	-7.4
Iowa	3,380	94	3,764	103	3,380	94	3,764	103	-10.2	-8.7
Kansas	3,411	103	3,755	121	3,411	103	3,755	121	-9.2	-15.2
Minnesota	4,347	116	3,722	125	4,347	116	3,722	125	16.8	-7.0
Missouri	5,109	127	6,172	135	5,109	127	6,172	135	-17.2	-5.7
Nebraska	2,317	79	2,091	75	2,317	79	2,091	75	10.8	4.5
North Dakota	6,086	72	6,153	70	6,086	72	6,153	70	-1.1	2.7
South Dakota	509	110	511	119	509	110	511	119	-.4	-7.7
South Atlantic	29,664	164	30,191	168	29,664	164	30,191	168	-1.7	-2.4
Delaware	493	172	423	176	493	172	423	176	16.6	-2.7
Florida	5,951	175	5,991	188	5,951	175	5,991	188	-.7	-6.6
Georgia	5,478	180	5,243	184	5,478	180	5,243	184	4.5	-2.3
Maryland	2,200	159	2,082	165	2,200	159	2,082	165	5.7	-3.7
North Carolina	4,617	173	4,521	178	4,617	173	4,521	178	2.1	-2.7
South Carolina	2,222	156	2,355	152	2,222	156	2,355	152	-5.6	2.7
Virginia	2,174	147	2,262	146	2,174	147	2,262	146	-3.9	.6
West Virginia	6,529	145	7,314	148	6,529	145	7,314	148	-10.7	-2.2
East South Central	22,510	138	19,808	139	22,510	138	19,808	139	13.6	-1.2
Alabama	6,446	178	6,025	177	6,446	178	6,025	177	7.0	.8
Kentucky	8,819	116	7,875	116	8,819	116	7,875	116	12.0	-.4
Mississippi	683	168	726	162	683	168	726	162	-5.9	4.0
Tennessee	6,562	124	5,182	127	6,562	124	5,182	127	26.6	-2.7
West South Central	30,911	148	30,663	146	30,911	148	30,663	146	.8	1.1
Arkansas	2,547	161	2,809	166	2,547	161	2,809	166	-9.3	-3.0
Louisiana	3,080	159	2,709	160	3,080	159	2,709	160	13.7	-.7
Oklahoma	4,214	124	4,002	128	4,214	124	4,002	128	5.3	-2.6
Texas	21,069	150	21,143	145	21,069	150	21,143	145	-.4	3.1
Mountain	26,087	112	25,739	107	26,087	112	25,739	107	1.4	5.4
Arizona	4,239	132	3,931	129	4,239	132	3,931	129	7.8	2.5
Colorado	4,135	112	3,911	108	4,135	112	3,911	108	5.7	3.7
Montana	2,755	65	2,985	65	2,755	65	2,985	65	-7.7	-.6
Nevada	1,811	144	2,023	135	1,811	144	2,023	135	-10.5	6.8
New Mexico	3,365	143	3,282	134	3,365	143	3,282	134	2.5	6.9
Utah	3,654	120	3,285	118	3,654	120	3,285	118	11.2	1.3
Wyoming	6,127	83	6,320	75	6,127	83	6,320	75	-3.1	10.6
Pacific	1,953	128	1,637	134	1,953	128	1,637	134	19.3	-4.1
Oregon	507	113	419	109	507	113	419	109	21.0	3.7
Washington	1,446	134	1,218	144	1,446	134	1,218	144	18.8	-7.0
U.S. Total	188,342	138	190,139	142	188,342	138	190,139	142	-.9	-2.3

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	January-March 1993		January-March 1992		Year to Date					
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	1993		1992		Percent Change	
					Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	1,406	169	1,477	175	1,406	169	1,477	175	-4.8	-3.3
Connecticut	239	169	214	207	239	169	214	207	11.7	-18.5
Massachusetts	812	170	956	169	812	170	956	169	-15.0	.6
New Hampshire	355	167	307	171	355	167	307	171	15.6	-2.1
Mid Atlantic	9,278	154	10,022	167	9,278	154	10,022	167	-7.4	-7.5
New Jersey	578	179	607	175	578	179	607	175	-4.8	2.2
New York	1,153	157	1,506	161	1,153	157	1,506	161	-23.4	-2.7
Pennsylvania	7,546	152	7,909	168	7,546	152	7,909	168	-4.6	-9.3
East North Central	29,056	151	32,460	154	29,056	151	32,460	154	-10.5	-2.4
Illinois	5,748	181	6,197	176	5,748	181	6,197	176	-7.2	3.0
Indiana	7,849	133	9,099	138	7,849	133	9,099	138	-13.7	-3.3
Michigan	3,402	157	3,201	166	3,402	157	3,201	166	6.3	-5.5
Ohio	9,254	151	10,656	154	9,254	151	10,656	154	-13.2	-1.7
Wisconsin	2,804	124	3,308	148	2,804	124	3,308	148	-15.2	-15.8
West North Central	22,191	104	21,100	113	22,191	104	21,100	113	5.2	-8.3
Iowa	2,197	93	2,583	112	2,197	93	2,583	112	-15.0	-16.9
Kansas	2,442	109	2,539	129	2,442	109	2,539	129	-3.8	-15.6
Minnesota	4,264	116	3,691	125	4,264	116	3,691	125	15.5	-7.4
Missouri	5,021	127	4,322	142	5,021	127	4,322	142	16.2	-10.7
Nebraska	2,085	79	1,600	79	2,085	79	1,600	79	30.3	.7
North Dakota	5,673	74	5,854	71	5,673	74	5,854	71	-3.1	3.5
South Dakota	509	110	511	119	509	110	511	119	-4	5.9
South Atlantic	23,304	173	24,414	177	23,304	173	24,414	177	-4.5	-2.5
Delaware	493	172	401	176	493	172	401	176	23.1	-2.8
Florida	4,191	192	4,828	199	4,191	192	4,828	199	-13.2	-3.8
Georgia	4,355	189	4,994	186	4,355	189	4,994	186	-12.8	1.7
Maryland	1,656	162	1,726	168	1,656	162	1,726	168	-4.0	-3.4
North Carolina	3,938	178	3,941	184	3,938	178	3,941	184	-1	-3.1
South Carolina	1,825	158	1,304	160	1,825	158	1,304	160	39.9	-1.4
Virginia	1,665	149	1,467	151	1,665	149	1,467	151	13.5	-1.1
West Virginia	5,182	157	5,753	161	5,182	157	5,753	161	-9.9	-2.2
East South Central	16,363	147	17,214	143	16,363	147	17,214	143	-4.9	2.7
Alabama	5,465	189	5,282	183	5,465	189	5,282	183	3.5	3.1
Kentucky	5,981	119	6,286	119	5,981	119	6,286	119	-4.8	.5
Mississippi	511	173	613	166	511	173	613	166	-16.7	4.4
Tennessee	4,406	128	5,033	127	4,406	128	5,033	127	-12.5	.6
West South Central	28,877	148	28,101	146	28,877	148	28,101	146	2.8	1.5
Arkansas	2,100	167	2,335	173	2,100	167	2,335	173	-10.1	-3.6
Louisiana	3,080	159	2,709	160	3,080	159	2,709	160	13.7	-7
Oklahoma	4,079	126	3,933	128	4,079	126	3,933	128	3.7	-1.7
Texas	19,617	149	19,125	144	19,617	149	19,125	144	2.6	3.8
Mountain	23,528	115	23,245	108	23,528	115	23,245	108	1.2	6.2
Arizona	2,943	142	3,144	135	2,943	142	3,144	135	-6.4	4.8
Colorado	3,976	112	3,318	108	3,976	112	3,318	108	19.8	3.8
Montana	2,755	65	2,985	65	2,755	65	2,985	65	-7.7	-6
Nevada	1,811	144	2,023	135	1,811	144	2,023	135	-10.5	6.8
New Mexico	3,365	143	3,282	134	3,365	143	3,282	134	2.5	6.9
Utah	3,170	127	2,951	120	3,170	127	2,951	120	7.4	6.2
Wyoming	5,507	86	5,541	77	5,507	86	5,541	77	-6	11.0
Pacific	1,144	137	1,213	144	1,144	137	1,213	144	-5.7	-5.2
Washington	1,144	137	1,213	144	1,144	137	1,213	144	-5.7	-5.2
U.S. Total	155,146	144	159,247	146	155,146	144	159,247	146	-2.6	-1.9

Notes: Total may not equal sum of components because of independent rounding. MM Btu represents million Btu.
Source: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

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

Census Division and State	January-March 1993		January-March 1992		Year to Date					
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	1993		1992		Percent Change	
					Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	84	169	146	170	84	169	146	170	-42.7	-0.4
Connecticut	-	-	26	178	-	-	26	178	-	-
Massachusetts	74	171	90	172	74	171	90	172	-18.0	-.4
New Hampshire	10	156	30	156	10	156	30	156	-67.0	.1
Mid Atlantic	3,150	124	3,120	129	3,150	124	3,120	129	1.0	-3.8
New Jersey	60	177	17	147	60	177	17	147	261.8	20.5
New York	959	137	902	142	959	137	902	142	6.3	-3.7
Pennsylvania	2,131	117	2,201	123	2,131	117	2,201	123	-3.2	-5.5
East North Central	9,084	111	8,708	116	9,084	111	8,708	116	4.3	-4.3
Illinois	690	123	644	129	690	123	644	129	7.1	-4.8
Indiana	2,949	109	3,572	117	2,949	109	3,572	117	-17.4	-7.2
Michigan	536	133	1,015	133	536	133	1,015	133	-47.2	-.1
Ohio	3,755	109	2,767	107	3,755	109	2,767	107	35.7	1.7
Wisconsin	1,154	105	709	109	1,154	105	709	109	62.7	-3.9
West North Central	2,969	88	5,068	97	2,969	88	5,068	97	-41.4	-10.0
Iowa	1,184	95	1,181	82	1,184	95	1,181	82	.2	15.4
Kansas	969	87	1,216	105	969	87	1,216	105	-20.3	-17.8
Minnesota	84	132	31	117	84	132	31	117	168.6	13.5
Missouri	88	128	1,850	114	88	128	1,850	114	-95.2	11.8
Nebraska	232	74	491	64	232	74	491	64	-52.8	15.9
North Dakota	413	45	299	44	413	45	299	44	38.2	1.2
South Atlantic	6,359	132	5,777	130	6,359	132	5,777	130	10.1	1.5
Delaware	-	-	22	174	-	-	22	174	-	-
Florida	1,760	135	1,163	138	1,760	135	1,163	138	51.3	-2.1
Georgia	1,123	144	250	145	1,123	144	250	145	350.1	-.3
Maryland	543	150	356	152	543	150	356	152	52.6	-1.6
North Carolina	679	144	580	138	679	144	580	138	17.2	4.3
South Carolina	397	149	1,050	142	397	149	1,050	142	-62.2	4.6
Virginia	509	140	795	138	509	140	795	138	-36.0	1.9
West Virginia	1,347	96	1,561	100	1,347	96	1,561	100	-13.7	-4.4
East South Central	6,148	114	2,594	117	6,148	114	2,594	117	137.0	-2.7
Alabama	981	122	743	135	981	122	743	135	32.0	-10.0
Kentucky	2,838	109	1,590	107	2,838	109	1,590	107	78.5	1.7
Mississippi	172	151	112	134	172	151	112	134	53.2	12.7
Tennessee	2,157	114	149	119	2,157	114	149	119	NM	-3.6
West South Central	2,034	145	2,562	149	2,034	145	2,562	149	-20.6	-2.8
Arkansas	447	130	474	126	447	130	474	126	-5.7	3.0
Oklahoma	135	88	69	122	135	88	69	122	94.7	-28.0
Texas	1,452	155	2,018	156	1,452	155	2,018	156	-28.1	-.3
Mountain	2,559	89	2,493	91	2,559	89	2,493	91	2.6	-2.8
Arizona	1,295	107	787	99	1,295	107	787	99	64.6	8.3
Colorado	159	88	593	104	159	88	593	104	-73.1	-15.9
Utah	485	73	334	106	485	73	334	106	45.0	-30.9
Wyoming	620	62	779	61	620	62	779	61	-20.4	2.5
Pacific	809	119	424	110	809	119	424	110	90.9	7.7
Oregon	507	113	419	109	507	113	419	109	21.0	3.7
Washington	302	128	5	215	302	128	5	215	NM	-40.7
U.S. Total	33,196	116	30,891	119	33,196	116	30,891	119	7.5	-2.1

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	January-March 1993	October-December 1992	January-March 1992	Year to Date		
				1993	1992	Percent Change
New England	\$44.05	\$43.93	\$45.81	\$44.05	\$45.81	-3.8
Connecticut	44.48	44.59	53.80	44.48	53.80	-17.3
Massachusetts	43.83	43.60	44.34	43.83	44.34	-1.2
New Hampshire	44.30	44.70	44.66	44.30	44.66	-.8
Mid Atlantic	36.96	36.80	39.64	36.96	39.64	-6.8
New Jersey	48.05	46.14	47.37	48.05	47.37	1.4
New York	38.29	37.76	40.05	38.29	40.05	-4.4
Pennsylvania	35.94	35.93	39.06	35.94	39.06	-8.0
East North Central	31.07	31.83	32.40	31.07	32.40	-4.1
Illinois	36.74	38.45	36.65	36.74	36.65	.2
Indiana	26.55	27.56	28.02	26.55	28.02	-5.3
Michigan	35.56	33.23	37.49	35.56	37.49	-5.2
Ohio	33.45	34.14	34.47	33.45	34.47	-2.9
Wisconsin	21.90	24.57	26.73	21.90	26.73	-18.1
West North Central	17.06	18.21	18.86	17.06	18.86	-9.5
Iowa	15.93	17.98	17.63	15.93	17.63	-9.7
Kansas	17.86	20.70	21.83	17.86	21.83	-18.2
Minnesota	20.54	18.96	22.08	20.54	22.08	-7.0
Missouri	25.40	27.87	27.88	25.40	27.88	-8.9
Nebraska	13.58	12.21	12.88	13.58	12.88	5.4
North Dakota	9.40	9.47	9.21	9.40	9.21	2.1
South Dakota	13.33	12.97	14.37	13.33	14.37	-7.2
South Atlantic	40.84	40.72	41.96	40.84	41.96	-2.7
Delaware	44.59	45.56	45.81	44.59	45.81	-2.7
Florida	43.16	43.88	46.50	43.16	46.50	-7.2
Georgia	43.36	41.65	44.32	43.36	44.32	-2.2
Maryland	40.31	40.34	42.09	40.31	42.09	-4.2
North Carolina	43.07	41.90	44.47	43.07	44.47	-3.2
South Carolina	39.99	39.76	39.00	39.99	39.00	2.5
Virginia	37.63	38.40	37.38	37.63	37.38	.6
West Virginia	36.30	37.01	37.12	36.30	37.12	-2.2
East South Central	32.91	32.52	33.33	32.91	33.33	-1.3
Alabama	42.86	40.30	42.71	42.86	42.71	.3
Kentucky	27.04	27.17	27.07	27.04	27.07	-.1
Mississippi	40.92	41.14	39.67	40.92	39.67	3.1
Tennessee	30.19	31.01	31.04	30.19	31.04	-2.8
West South Central	22.46	22.96	22.36	22.46	22.36	.5
Arkansas	27.95	27.60	29.01	27.95	29.01	-3.7
Louisiana	25.85	25.26	26.43	25.85	26.43	-2.2
Oklahoma	21.58	20.55	22.38	21.58	22.38	-3.6
Texas	21.48	22.49	20.95	21.48	20.95	2.5
Mountain	21.75	21.82	20.72	21.75	20.72	5.0
Arizona	26.72	29.85	26.33	26.72	26.33	1.5
Colorado	21.71	21.53	21.18	21.71	21.18	2.5
Montana	11.02	12.14	11.25	11.02	11.25	-2.1
Nevada	31.55	34.32	29.84	31.55	29.84	5.7
New Mexico	25.76	23.97	24.24	25.76	24.24	6.3
Utah	27.51	25.57	27.13	27.51	27.13	1.4
Wyoming	14.62	13.99	13.33	14.62	13.33	9.6
Pacific	21.52	23.41	22.22	21.52	22.22	-3.1
Oregon	20.40	21.42	21.05	20.40	21.05	-3.1
Washington	21.92	24.12	22.62	21.92	22.62	-3.1
U.S. Total	28.65	29.21	29.48	28.65	29.48	-2.8

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

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

Table 35. Coal Receipts and Prices by Sulfur Content at Electric Utility Plants, by State of Origin and Imports, January-March 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	1,339	262	2,709	180	151	134	4,198	205	1.00	-2.5	4.1	-0.6
Arizona	2,854	111	-	-	-	-	2,854	111	.46	-5.7	5.9	-2.0
Colorado	3,643	141	115	95	-	-	3,758	140	.40	-1.0	*	4.1
Illinois	-	-	3,236	145	10,109	150	13,345	149	2.24	-4.1	-5.5	-4.7
Indiana	119	134	554	120	5,001	120	5,674	120	2.24	-9.6	-3.6	1.4
Iowa	-	-	-	-	7	173	7	173	2.78	-65.0	4.0	-25.1
Kansas	-	-	-	-	69	128	69	128	2.89	-6.7	.3	-8
Kentucky	3,367	160	15,257	156	8,569	121	27,192	146	1.39	-3.9	-2.0	-4.7
Louisiana	-	-	742	137	-	-	742	137	.83	33.5	-1.0	-5.0
Maryland	-	-	563	148	-	-	563	148	1.30	-23.9	8.4	-2.4
Missouri	-	-	-	-	202	272	202	272	3.90	-65.6	77.2	.1
Montana	1,993	180	4,769	90	-	-	6,762	118	.65	-5.0	-6.0	-1.3
New Mexico	2,090	143	4,228	149	-	-	6,318	147	.69	16.1	5.3	-8.6
North Dakota	-	-	6,412	74	184	75	6,595	74	1.14	-1.0	1.6	-32.7
Ohio	2	144	305	124	6,913	139	7,220	138	2.88	-9.4	-.7	-1.1
Oklahoma	-	-	-	-	24	111	24	111	2.95	-73.4	-6.1	41.2
Pennsylvania	371	159	7,623	143	3,789	128	11,783	139	1.51	-1.0	-11.1	4.8
Tennessee	54	133	404	140	75	110	534	136	1.14	-20.3	4.8	2.5
Texas	-	-	6,518	112	5,989	136	12,507	124	1.72	-1.7	7.6	3.1
Utah	3,806	119	-	-	-	-	3,806	119	.39	4.9	1.7	4.0
Virginia	928	170	2,917	161	16	122	3,861	163	.81	-9.5	-.9	-6.3
Washington	19	127	1,153	136	-	-	1,172	136	.88	-3.4	-5.5	3.9
West Virginia	6,356	169	9,682	151	4,657	142	20,695	154	1.20	-2.0	-2.5	-9.6
Wyoming	44,559	127	3,122	98	-	-	47,681	125	.42	5.0	-2.2	-1.6
Imported	573	158	207	132	-	-	780	151	.53	109.4	-7.1	-14.8
Total	72,072	140	70,515	140	45,755	135	188,342	138	1.20	-.9	-2.3	-6.1

* 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-March 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	6,446	6,025	84.8	87.7	1.16	1.16	178	177
Alabama	4,198	4,262	88.2	83.1	1.00	.99	205	197
Illinois	445	224	86.8	100.0	1.76	1.55	123	121
Indiana	10	-	-	-	3.12	-	102	-
Kentucky	1,042	672	60.7	97.6	1.89	2.75	120	115
Tennessee	109	182	95.5	100.0	.71	.62	128	133
West Virginia	642	684	99.4	98.9	.72	.86	148	139
Arizona	4,239	3,931	69.4	80.0	.50	.50	132	129
Arizona	1,683	1,650	100.0	100.0	.48	.46	107	104
Colorado	-	119	-	100.0	-	.34	-	168
New Mexico	2,556	2,162	49.3	63.6	.51	.54	150	147
Arkansas	2,547	2,809	82.5	83.1	.36	.36	161	166
Wyoming	2,547	2,809	82.5	83.1	.36	.36	161	166
Colorado	4,135	3,911	96.1	84.8	.40	.38	112	108
Colorado	2,495	2,495	93.6	78.2	.40	.38	115	110
Wyoming	1,640	1,417	100.0	100.0	.38	.39	105	103
Connecticut	239	240	100.0	89.2	.45	.42	169	204
Kentucky	164	240	100.0	89.2	.42	.42	169	204
West Virginia	75	-	100.0	-	.50	-	169	-
Delaware	493	423	100.0	94.8	.77	.77	172	176
Pennsylvania	54	53	100.0	58.3	1.10	1.09	172	177
Virginia	68	-	100.0	-	.68	-	209	-
West Virginia	371	370	100.0	100.0	.74	.72	165	176
Florida	5,951	5,991	70.4	80.6	1.37	1.36	175	188
Alabama	-	45	-	-	-	2.31	-	121
Colorado	-	24	-	-	-	.37	-	117
Illinois	1,717	1,370	55.2	78.8	2.22	2.32	172	200
Indiana	45	-	-	-	3.12	-	159	-
Kentucky	2,750	3,673	87.5	80.0	1.17	1.15	182	182
Tennessee	71	46	100.0	100.0	.87	.88	209	216
Utah	124	32	-	-	.31	.34	157	164
Virginia	182	221	100.0	100.0	.58	.58	217	235
West Virginia	476	375	69.8	100.0	1.20	1.15	169	203
Imported coal Colombia	520	207	48.1	82.5	.58	.61	135	157
Imported coal Venezuela	66	-	-	-	.41	-	221	-
Georgia	5,478	5,243	79.5	95.2	1.32	1.47	180	184
Illinois	1,339	1,304	95.4	100.0	2.45	2.51	206	210
Indiana	94	126	100.0	100.0	2.25	2.29	136	137
Kentucky	2,577	2,756	73.5	91.5	1.07	1.22	160	165
Virginia	709	648	90.3	99.6	.96	1.07	162	183
West Virginia	759	409	59.1	96.6	.56	.53	209	257
Illinois	6,438	6,841	89.3	90.6	1.73	1.89	174	171
Colorado	60	97	-	-	.42	.39	131	136
Illinois	3,722	4,096	89.1	94.1	2.56	2.73	139	137
Indiana	148	242	74.4	65.8	1.55	1.68	132	133
Kentucky	274	298	70.1	74.5	.45	.44	163	173
Montana	701	766	100.0	100.0	.43	.35	266	287
Utah	51	97	-	-	.36	.37	129	114
West Virginia	118	148	53.2	66.4	.52	.59	158	152
Wyoming	1,365	1,097	100.0	100.0	.34	.48	258	262
Indiana	10,798	12,671	72.7	71.8	1.66	1.72	127	132
Colorado	219	106	94.7	-	.38	.35	148	159
Illinois	1,637	2,422	84.0	90.2	1.89	2.33	152	159
Indiana	4,645	4,922	63.5	66.3	2.22	2.25	118	120
Kentucky	936	1,286	89.4	73.1	2.42	2.02	119	122
Montana	147	204	100.0	100.0	.42	.35	255	279
Ohio	5	7	-	-	1.29	2.72	122	127
Virginia	-	27	-	-	-	.54	-	165
West Virginia	136	549	-	7.1	.55	.56	136	140
Wyoming	3,074	3,148	75.9	78.3	.39	.40	120	122
Iowa	3,380	3,764	65.0	68.6	.47	.50	94	103
Illinois	17	93	-	100.0	1.46	2.18	129	160
Indiana	2	-	-	-	1.72	-	123	-
Iowa	7	20	100.0	100.0	2.78	3.71	173	166
Wyoming	3,354	3,651	65.3	67.7	.46	.42	93	100
Kansas	3,411	3,755	71.8	67.6	.45	.68	103	121
Colorado	10	-	100.0	-	.38	-	117	-
Illinois	44	464	-	12.8	2.43	2.16	123	139
Kansas	25	24	100.0	100.0	2.54	2.59	120	120

See footnotes at end of table.

**Table 36. Destination of Coal Received at Electric Utility Plants by Origin,
January-March 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
Kansas								
Missouri	-	15	-	-	-	2.89	-	120
Wyoming	3,332	3,252	72.3	75.5	0.40	.38	102	118
Kentucky	8,819	7,875	67.8	76.8	2.02	2.14	116	116
Illinois	178	-	-	-	2.37	-	111	-
Indiana	341	535	44.1	58.7	2.51	2.52	96	101
Kentucky	6,876	6,323	73.2	81.0	2.23	2.32	114	116
Ohio	107	40	100.0	100.0	2.03	2.34	187	183
Pennsylvania	42	-	-	-	1.79	-	101	-
Tennessee	88	165	-	91.3	2.09	1.93	112	113
West Virginia	1,187	812	58.1	81.2	.64	.66	126	127
Louisiana	3,080	2,709	100.0	100.0	.80	.59	159	180
Louisiana	742	556	100.0	100.0	.83	.88	137	138
Wyoming	2,338	2,153	100.0	100.0	.54	.53	165	165
Maryland	2,200	2,082	75.3	82.9	1.08	1.06	159	165
Kentucky	104	50	100.0	100.0	.56	.56	156	158
Maryland	264	213	88.1	80.4	1.24	1.20	173	179
Pennsylvania	737	758	80.0	77.7	1.43	1.46	169	174
Virginia	-	22	-	-	-	.55	-	170
West Virginia	1,084	1,039	71.6	88.2	.86	.79	149	156
Massachusetts	885	1,045	91.7	91.4	.90	.93	170	169
Kentucky	29	-	-	-	.52	-	184	-
Pennsylvania	87	74	100.0	78.7	1.14	1.07	175	169
Virginia	-	203	-	100.0	-	.76	-	177
West Virginia	681	665	93.4	93.8	.93	1.01	168	167
Imported coal Canada	-	33	-	-	-	1.03	-	175
Imported coal Colombia	40	-	100.0	-	.52	-	186	-
Imported coal Venezuela	49	70	100.0	100.0	.58	.55	164	167
Michigan	3,939	4,216	86.4	75.9	.68	.69	154	159
Kentucky	1,292	1,323	97.7	98.5	.73	.77	176	178
Montana	144	96	100.0	100.0	.37	.36	116	114
Ohio	49	-	100.0	-	2.58	-	198	-
Pennsylvania	306	394	100.0	78.2	1.10	1.12	160	155
West Virginia	1,145	1,470	72.6	64.6	.69	.68	158	167
Wyoming	1,002	933	80.7	58.3	.31	.32	107	110
Minnesota	4,347	3,722	98.1	99.2	.47	.52	116	125
Illinois	13	6	-	100.0	1.49	1.65	170	172
Montana	2,103	2,124	96.6	99.1	.66	.69	115	125
Wyoming	2,231	1,592	100.0	99.2	.29	.29	117	125
Mississippi	683	726	74.8	84.5	1.13	1.26	168	162
Illinois	236	269	78.7	96.4	2.02	2.16	135	133
Kentucky	343	374	94.7	94.6	.73	.77	191	186
Montana	36	82	-	-	.39	.32	162	136
Missouri	5,109	6,172	98.3	70.0	1.44	1.70	127	135
Colorado	121	152	100.0	94.1	.40	.44	161	161
Illinois	1,948	2,838	98.6	89.2	2.22	2.12	149	156
Indiana	226	-	100.0	-	2.73	-	122	-
Kansas	45	51	100.0	40.0	3.10	3.07	132	132
Kentucky	9	201	100.0	95.0	.48	2.95	211	126
Missouri	202	572	86.2	99.5	3.90	3.92	272	154
Utah	-	79	-	-	-	.35	-	141
Wyoming	2,558	2,278	98.8	38.1	.32	.33	90	93
Montana	2,755	2,985	100.0	100.0	.76	.78	65	65
Montana	2,755	2,985	100.0	100.0	.76	.78	65	65
Nebraska	2,317	2,091	90.0	76.5	.41	.44	79	75
Wyoming	2,317	2,091	90.0	76.5	.41	.44	79	75
Nevada	1,811	2,023	100.0	100.0	.44	.46	144	135
Arizona	1,171	1,375	100.0	100.0	.45	.49	118	106
Colorado	101	25	100.0	100.0	.45	.41	217	217
Utah	323	493	100.0	100.0	.38	.38	181	190
Wyoming	215	130	100.0	100.0	.50	.53	200	204
New Hampshire	385	337	97.3	91.1	1.19	1.08	167	169
Pennsylvania	204	179	100.0	100.0	1.22	1.20	173	172
West Virginia	134	100	92.6	100.0	1.26	1.20	163	168
Imported coal Colombia	-	30	-	-	-	.52	-	156
Imported coal Venezuela	27	28	100.0	100.0	.51	.44	139	172
New Jersey	639	624	90.5	97.3	.77	.92	179	174
Kentucky	61	33	100.0	74.0	.64	.61	185	180
Pennsylvania	8	-	-	-	1.97	-	152	-

See footnotes at end of table.

Table 36. Destination of Coal Received at Electric Utility Plants by Origin, January-March 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
New Jersey								
Virginia	230	295	100.0	100.0	0.56	0.59	178	178
West Virginia	340	298	84.5	97.3	.93	1.30	179	169
New Mexico	3,365	3,282	100.0	100.0	.89	.91	143	134
New Mexico	3,365	3,282	100.0	100.0	.89	.91	143	134
New York	2,112	2,408	54.6	62.5	1.24	1.26	148	154
Kentucky	81	116	100.0	48.8	.42	.45	217	202
Maryland	-	7	-	-	-	1.42	-	137
Pennsylvania	1,515	1,629	52.2	56.6	1.33	1.34	139	148
West Virginia	516	656	54.4	80.4	1.09	1.20	162	162
North Carolina	4,617	4,521	85.3	87.2	.75	.75	173	178
Kentucky	2,174	2,044	89.8	88.8	.78	.75	177	185
Tennessee	1	3	-	-	.90	1.01	148	147
Virginia	1,009	1,094	97.2	97.3	.80	.85	172	174
West Virginia	1,433	1,381	70.2	77.0	.65	.65	169	171
North Dakota	6,086	6,153	93.2	95.1	1.12	1.72	72	70
North Dakota	6,086	6,153	93.2	95.1	1.12	1.72	72	70
Ohio	13,009	13,423	71.1	79.4	2.09	2.23	139	144
Indiana	-	5	-	-	-	3.37	-	89
Kentucky	1,802	2,142	75.2	63.7	.81	1.01	154	147
Ohio	6,695	7,547	80.2	83.5	2.90	2.91	139	141
Pennsylvania	1,118	633	16.1	66.6	1.60	1.68	108	133
West Virginia	3,394	3,085	69.3	83.3	1.38	1.57	143	153
Wyoming	-	13	-	-	-	.44	-	127
Oklahoma	4,214	4,002	96.8	98.3	.45	.50	124	128
Oklahoma	24	91	100.0	73.7	2.95	2.09	111	118
Wyoming	4,190	3,911	96.8	98.8	.43	.45	125	128
Oregon	507	419	-	-	.42	.40	113	109
Montana	289	419	-	-	.42	.40	113	109
Wyoming	218	-	-	-	.43	-	113	-
Pennsylvania	9,676	10,110	78.0	78.2	1.67	1.71	144	158
Ohio	138	74	88.8	76.5	2.43	2.88	163	149
Pennsylvania	7,294	7,447	73.0	73.4	1.56	1.47	140	160
West Virginia	2,244	2,589	93.6	92.3	1.99	2.37	157	152
South Carolina	2,222	2,355	82.1	55.4	.87	.89	156	152
Kentucky	2,012	2,141	80.8	51.0	.86	.88	157	151
Virginia	202	198	98.0	100.0	.92	1.09	153	159
West Virginia	8	15	-	100.0	.76	.71	156	180
South Dakota	509	511	100.0	100.0	1.46	1.46	110	119
North Dakota	509	511	100.0	100.0	1.46	1.46	110	119
Tennessee	6,562	5,182	67.1	97.1	1.61	1.66	124	127
Illinois	2,047	643	34.4	92.6	1.97	1.68	118	124
Kentucky	3,721	3,834	83.2	97.4	1.54	1.76	126	128
Pennsylvania	7	-	-	-	1.82	-	120	-
Tennessee	264	273	77.4	98.7	1.08	1.01	127	122
Virginia	415	432	97.1	100.0	1.00	1.20	123	129
West Virginia	109	-	-	-	1.45	-	121	-
Texas	21,069	21,143	93.1	90.5	1.07	1.06	150	145
Colorado	406	421	76.4	70.4	.37	.34	212	206
Texas	12,507	12,718	100.0	99.5	1.72	1.67	124	115
Wyoming	8,156	8,004	83.4	77.2	.40	.41	175	176
Utah	3,654	3,285	86.7	89.8	.40	.39	120	118
Colorado	346	358	100.0	100.0	.40	.46	203	247
Utah	3,308	2,927	85.4	88.6	.40	.38	112	104
Virginia	2,174	2,282	76.6	64.9	.76	.80	147	146
Kentucky	821	632	59.9	62.2	.77	.89	146	150
Virginia	1,040	1,126	89.4	68.8	.71	.73	144	140
West Virginia	313	505	77.7	59.5	.89	.83	161	156
Washington	1,446	1,218	79.1	99.6	.78	.85	134	144
Montana	263	-	-	-	.43	-	126	-
Washington	1,172	1,213	97.6	100.0	.88	.85	136	144
Imported coal Canada	12	5	-	-	.48	.42	179	215
West Virginia	6,529	7,314	79.4	78.7	1.55	1.64	145	148
Kentucky	124	146	100.0	93.9	.67	.70	187	181
Maryland	298	519	87.2	64.0	1.34	1.38	126	119
Ohio	226	297	-	-	3.19	3.08	86	92
Pennsylvania	407	384	29.3	35.3	1.95	1.89	108	113
West Virginia	5,474	5,968	85.5	86.3	1.48	1.59	150	155

See footnotes at end of table.

**Table 36. Destination of Coal Received at Electric Utility Plants by Origin,
January-March 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
Wisconsin	3,957	4,017	70.9	82.4	0.50	0.78	119	141
Illinois	3	181	100.0	70.0	1.82	1.33	164	150
Indiana	164	443	100.0	98.0	1.99	1.75	193	198
Montana	323	440	100.0	100.0	.87	.83	156	164
New Mexico	397	-	99.2	-	.40	-	152	-
Pennsylvania	4	346	-	100.0	1.67	1.24	170	152
Virginia	7	-	-	-	.53	-	153	-
West Virginia	46	-	100.0	-	.51	-	179	-
Wyoming	3,014	2,606	62.2	75.2	.37	.40	102	122
Wyoming	6,127	6,320	89.9	87.7	.59	.56	83	75
Wyoming	6,127	6,320	89.9	87.7	.59	.56	83	75
U.S. Total	188,342	190,139	82.4	83.8	1.20	1.28	138	142

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-March 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	4,198	4,307	88.2	82.2	1.00	1.00	205	197
Alabama	4,198	4,262	88.2	83.1	1.00	.99	205	197
Florida	-	45	-	-	-	2.31	-	121
Arizona	2,854	3,025	100.0	100.0	.46	.47	111	105
Arizona	1,683	1,650	100.0	100.0	.48	.46	107	104
Nevada	1,171	1,375	100.0	100.0	.45	.49	118	106
Colorado	3,758	3,796	91.3	74.9	.40	.38	140	140
Arizona	-	119	-	100.0	-	.34	-	168
Colorado	2,495	2,495	93.6	76.2	.40	.38	115	110
Florida	-	24	-	-	-	.37	-	117
Illinois	60	97	-	-	.42	.39	131	136
Indiana	219	106	94.7	-	.38	.35	148	159
Kansas	10	-	100.0	-	.36	-	117	-
Missouri	121	152	100.0	94.1	.40	.44	161	161
Nevada	101	25	100.0	100.0	.45	.41	217	217
Texas	406	421	76.4	70.4	.37	.34	212	206
Utah	346	358	100.0	100.0	.40	.46	203	247
Illinois	13,345	13,910	75.8	88.6	2.24	2.35	149	157
Alabama	445	224	86.8	100.0	1.76	1.55	123	121
Florida	1,717	1,370	55.2	78.8	2.22	2.32	172	200
Georgia	1,339	1,304	95.4	100.0	2.45	2.51	206	210
Illinois	3,722	4,096	89.1	94.1	2.56	2.73	139	137
Indiana	1,637	2,422	84.0	90.2	1.89	2.33	152	159
Iowa	17	93	-	100.0	1.46	2.18	129	160
Kansas	44	464	-	12.8	2.43	2.16	123	139
Kentucky	178	-	-	-	2.37	-	111	-
Minnesota	13	6	-	100.0	1.49	1.65	170	172
Mississippi	236	269	78.7	96.4	2.02	2.16	135	133
Missouri	1,948	2,838	98.6	89.2	2.22	2.12	149	156
Tennessee	2,047	643	34.4	92.6	1.97	1.68	118	124
Wisconsin	3	181	100.0	70.0	1.82	1.33	164	150
Indiana	5,674	6,274	65.1	68.5	2.24	2.21	120	125
Alabama	10	-	-	-	3.12	-	102	-
Florida	45	-	-	-	3.12	-	159	-
Georgia	94	126	100.0	100.0	2.25	2.29	136	137
Illinois	148	242	74.4	65.8	1.55	1.68	132	133
Indiana	4,645	4,922	63.5	66.3	2.22	2.25	118	120
Iowa	2	-	-	-	1.72	-	123	-
Kentucky	341	535	44.1	58.7	2.51	2.52	96	101
Missouri	226	-	100.0	-	2.73	-	122	-
Ohio	-	5	-	-	-	3.37	-	89
Wisconsin	164	443	100.0	98.0	1.99	1.75	193	198
Iowa	7	20	100.0	100.0	2.78	3.71	173	166
Iowa	7	20	100.0	100.0	2.78	3.71	173	166
Kansas	69	74	100.0	59.1	2.89	2.92	128	128
Kansas	25	24	100.0	100.0	2.54	2.59	120	120
Missouri	45	51	100.0	40.0	3.10	3.07	132	132
Kentucky	27,192	28,284	79.6	81.8	1.39	1.46	146	149
Alabama	1,042	672	60.7	97.6	1.89	2.75	120	115
Connecticut	164	240	100.0	89.2	.42	.42	169	204
Florida	2,750	3,673	87.5	80.0	1.17	1.15	182	182
Georgia	2,577	2,756	73.5	91.5	1.07	1.22	160	165
Illinois	274	298	70.1	74.5	.45	.44	163	173
Indiana	936	1,286	89.4	73.1	2.42	2.02	119	122
Kentucky	6,876	6,323	73.2	81.0	2.23	2.32	114	116
Maryland	104	50	100.0	100.0	.56	.56	156	158
Massachusetts	29	-	-	-	.52	-	184	-
Michigan	1,292	1,323	97.7	98.5	.73	.77	176	178
Mississippi	343	374	94.7	94.6	.73	.77	191	186
Missouri	9	201	100.0	95.0	.48	2.95	211	126
New Jersey	61	33	100.0	74.0	.64	.61	185	180
New York	81	116	100.0	48.8	.42	.45	217	202
North Carolina	2,174	2,044	89.8	88.8	.78	.75	177	185
Ohio	1,802	2,142	75.2	63.7	.81	1.01	154	147
South Carolina	2,012	2,141	80.8	51.0	.86	.88	157	151
Tennessee	3,721	3,834	83.2	97.4	1.54	1.76	126	128
Virginia	821	632	59.9	62.2	.77	.89	146	150
West Virginia	124	146	100.0	93.9	.67	.70	187	181

See footnotes at end of table.

**Table 37. Origin of Coal Received at Electric Utility Plants by Destination,
January-March 1993, 1992 (Continued)**

State of Origin and Import 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
Louisiana	742	556	100.0	100.0	0.83	0.88	137	138
Louisiana	742	556	100.0	100.0	.83	.88	137	138
Maryland	563	739	78.2	68.0	1.30	1.33	148	137
Maryland	563	739	78.2	68.0	1.30	1.33	148	137
Maryland	264	213	68.1	80.4	1.24	1.20	173	179
New York	-	7	-	-	-	1.42	-	137
West Virginia	298	519	87.2	64.0	1.34	1.38	126	119
Missouri	202	587	86.2	97.0	3.90	3.89	272	153
Missouri	202	587	86.2	97.0	3.90	3.89	272	153
Kansas	-	15	-	-	-	2.89	-	120
Missouri	202	572	86.2	99.5	3.90	3.92	272	154
Montana	6,762	7,117	90.3	92.7	.65	.66	118	126
Montana	6,762	7,117	90.3	92.7	.65	.66	118	126
Illinois	701	766	100.0	100.0	.43	.35	266	287
Indiana	1	204	100.0	100.0	.42	.35	255	279
Michigan	-	96	100.0	100.0	.37	.36	116	114
Minnesota	2,100	2,124	96.6	99.1	.66	.69	115	125
Mississippi	36	82	-	-	.39	.32	162	136
Montana	2,755	2,985	100.0	100.0	.76	.78	65	65
Oregon	289	419	-	-	.42	.40	113	109
Washington	263	-	-	-	.43	-	126	-
Wisconsin	323	440	100.0	100.0	.87	.83	156	164
New Mexico	6,318	5,444	79.4	85.5	.69	.76	147	139
New Mexico	6,318	5,444	79.4	85.5	.69	.76	147	139
Arizona	2,556	2,162	49.3	63.6	.51	.54	150	147
New Mexico	3,365	3,282	100.0	100.0	.89	.91	143	134
Wisconsin	397	-	99.2	-	.40	-	152	-
North Dakota	6,595	6,664	93.7	95.5	1.14	1.70	74	73
North Dakota	6,595	6,664	93.7	95.5	1.14	1.70	74	73
North Dakota	6,086	6,153	93.2	95.1	1.12	1.72	72	70
South Dakota	509	511	100.0	100.0	1.46	1.46	110	119
Ohio	7,220	7,966	78.2	80.3	2.88	2.91	138	139
Ohio	7,220	7,966	78.2	80.3	2.88	2.91	138	139
Indiana	5	7	-	-	1.29	2.72	122	127
Kentucky	107	40	100.0	100.0	2.03	2.34	187	183
Michigan	49	-	100.0	-	2.58	-	198	-
Ohio	6,695	7,547	80.2	83.5	2.90	2.91	139	141
Pennsylvania	138	74	88.8	76.5	2.43	2.88	163	149
West Virginia	226	297	-	-	3.19	3.08	86	92
Oklahoma	24	91	100.0	73.7	2.95	2.09	111	118
Oklahoma	24	91	100.0	73.7	2.95	2.09	111	118
Pennsylvania	11,783	11,896	65.0	71.0	1.51	1.44	139	156
Pennsylvania	11,783	11,896	65.0	71.0	1.51	1.44	139	156
Delaware	54	53	100.0	58.3	1.10	1.09	172	177
Kentucky	42	-	-	-	1.79	-	101	-
Maryland	7	758	80.0	77.7	1.43	1.46	169	174
Massachusetts	87	74	100.0	78.7	1.14	1.07	175	169
Michigan	306	394	100.0	78.2	1.10	1.12	160	155
New Hampshire	204	179	100.0	100.0	1.22	1.20	173	172
New Jersey	8	-	-	-	1.97	-	152	-
New York	1,515	1,629	52.2	56.0	1.33	1.34	139	148
Ohio	1,118	633	16.1	66.6	1.60	1.68	108	133
Pennsylvania	7,294	7,447	73.0	73.4	1.56	1.47	140	160
Tennessee	7	-	-	-	1.82	-	120	-
West Virginia	407	384	29.3	35.3	1.95	1.89	108	113
Wisconsin	4	346	-	100.0	1.67	1.24	170	152
Tennessee	534	669	71.2	96.9	1.14	1.12	136	129
Tennessee	534	669	71.2	96.9	1.14	1.12	136	129
Alabama	109	182	95.5	100.0	.71	.62	128	133
Florida	71	46	100.0	100.0	.87	.88	209	216
Kentucky	98	105	-	91.3	2.09	1.93	112	113
North Carolina	1	3	-	-	.90	1.01	148	147
Tennessee	264	273	77.4	98.7	1.08	1.01	127	122
Texas	12,507	12,718	100.0	99.5	1.72	1.67	124	115
Texas	12,507	12,718	100.0	99.5	1.72	1.67	124	115
Utah	3,806	3,629	82.7	85.1	.39	.38	119	117
Utah	3,806	3,629	82.7	85.1	.39	.38	119	117
Florida	124	32	-	-	.31	.34	157	164
Illinois	51	97	-	-	.36	.37	129	114
Missouri	-	79	-	-	-	.35	-	141
Nevada	323	493	100.0	100.0	.38	.38	181	190
Utah	3,308	2,927	85.4	88.6	.40	.38	112	104
Virginia	3,861	4,266	94.1	89.8	.81	.86	163	165
Virginia	3,861	4,266	94.1	89.8	.81	.86	163	165
Delaware	68	-	100.0	-	.68	-	209	-
Florida	182	221	100.0	100.0	.58	.58	217	235
Georgia	709	648	90.3	99.6	.96	1.07	182	183
Indiana	-	27	-	-	-	.54	-	165
Maryland	-	22	-	-	-	.55	-	170

See footnotes at end of table.

**Table 37. Origin of Coal Received at Electric Utility Plants by Destination,
January-March 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
Virginia								
Massachusetts	-	203	-	100.0	-	0.76	-	177
New Jersey	230	295	100.0	100.0	0.56	.59	178	178
North Carolina	1,009	1,094	97.2	97.3	.80	.85	172	174
South Carolina	202	198	98.0	100.0	.92	1.09	153	159
Tennessee	415	432	97.1	100.0	1.00	1.20	123	129
Virginia	1,040	1,126	89.4	68.8	.71	.73	144	140
Wisconsin	7	-	-	-	.53	-	153	-
Washington	1,172	1,213	97.6	100.0	.88	.85	136	144
Washington	1,172	1,213	97.6	100.0	.88	.85	136	144
West Virginia	20,695	21,114	77.2	82.9	1.20	1.33	154	158
Alabama	642	684	99.4	98.9	.72	.86	148	139
Connecticut	75	-	100.0	-	.50	-	169	-
Delaware	371	370	100.0	100.0	.74	.72	165	176
Florida	476	375	69.8	100.0	1.20	1.15	169	203
Georgia	759	409	59.1	96.6	.56	.53	209	257
Illinois	118	148	53.2	66.4	.52	.59	158	152
Indiana	136	549	-	7.1	.55	.56	138	140
Kentucky	1,187	812	58.1	81.2	.64	.66	126	127
Maryland	1,094	1,039	71.6	88.2	.86	.79	149	156
Massachusetts	681	665	93.4	93.8	.93	1.01	168	167
Michigan	1,145	1,470	72.6	64.6	.69	.68	158	167
New Hampshire	134	100	92.6	100.0	1.26	1.20	163	168
New Jersey	340	296	84.5	97.3	.93	1.30	179	169
New York	516	656	54.4	80.4	1.09	1.20	162	162
North Carolina	1,433	1,381	70.2	77.0	.65	.65	169	171
Ohio	3,394	3,085	69.3	83.3	1.38	1.57	143	153
Pennsylvania	2,244	2,589	93.6	92.3	1.99	2.37	157	152
South Carolina	8	15	-	100.0	.76	.71	156	180
Tennessee	109	-	-	-	1.45	-	121	-
Virginia	313	505	77.7	59.5	.89	.83	161	156
West Virginia	5,474	5,968	85.5	86.3	1.48	1.59	150	155
Wisconsin	46	-	100.0	-	.51	-	179	-
Wyoming	47,681	45,405	84.9	80.7	.42	.43	125	128
Arkansas	2,547	2,809	82.5	83.1	.36	.36	161	166
Colorado	1,640	1,417	100.0	100.0	.38	.39	105	103
Illinois	1,365	1,097	100.0	100.0	.34	.48	258	262
Indiana	3,074	3,148	75.9	78.3	.39	.40	120	122
Iowa	3,354	3,651	65.3	67.7	.46	.42	93	100
Kansas	3,332	3,252	72.3	75.5	.40	.38	102	118
Louisiana	2,338	2,153	100.0	100.0	.54	.53	165	165
Michigan	1,002	933	80.7	58.3	.31	.32	107	110
Minnesota	2,231	1,592	100.0	99.2	.29	.29	117	125
Missouri	2,558	2,278	98.8	38.1	.32	.33	90	93
Nebraska	2,317	2,091	90.0	76.5	.41	.44	79	75
Nevada	215	130	100.0	100.0	.50	.53	200	204
Ohio	-	13	-	-	-	.44	-	127
Oklahoma	4,190	3,911	96.8	98.8	.43	.45	125	128
Oregon	218	-	-	-	.43	-	113	-
Texas	8,156	8,004	83.4	77.2	.40	.41	175	176
Wisconsin	3,014	2,606	62.2	75.2	.37	.40	102	122
Wyoming	6,127	6,320	89.9	87.7	.59	.56	83	75
Imported Coal	780	373	46.8	72.1	.53	.62	151	162
Canada	12	38	-	-	.48	.97	179	179
Massachusetts	-	33	-	-	-	1.03	-	175
Washington	12	5	-	-	.48	.42	179	215
Colombia	560	237	51.8	72.0	.58	.60	139	156
Florida	520	207	48.1	82.5	.58	.61	135	157
Massachusetts	40	-	100.0	-	.52	-	186	-
New Hampshire	-	30	-	-	-	.52	-	156
Venezuela	141	98	53.2	100.0	.48	.52	186	188
Florida	66	-	-	-	.41	-	221	-
Massachusetts	49	70	100.0	100.0	.58	.55	164	167
New Hampshire	27	28	100.0	100.0	.51	.44	139	172
U.S. Total	188,342	190,139	82.4	83.8	1.20	1.28	138	142

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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
By State						
Alabama	856	807	899	856	899	-4.8
Illinois	w	w	w	w	w	w
Indiana	1,790	1,383	1,890	1,790	1,890	-5.3
Kentucky	w	w	w	w	w	w
Maryland	w	w	w	w	w	w
Michigan	w	w	w	w	w	w
New York	w	w	w	w	w	w
Ohio	720	888	1,006	720	1,006	-28.5
Pennsylvania	2,420	2,736	2,427	2,420	2,427	-.3
Utah	w	w	w	w	w	w
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
By Plant Type						
Merchant Coke Plants	1,082	1,073	1,129	1,082	1,129	-4.2
Furnace Coke Plants	6,869	7,037	7,281	6,869	7,281	-5.7
U.S. Total	7,951	8,110	8,410	7,951	8,410	-5.5

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

Average Price ¹	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
By State						
Alabama	\$47.94	\$47.23	\$48.48	\$47.94	\$48.48	-1.1
Illinois	w	w	w	w	w	w
Indiana	\$55.69	\$53.41	\$53.45	\$55.69	\$53.45	4.2
Kentucky	w	w	w	w	w	w
Maryland	w	w	w	w	w	w
Michigan	w	w	w	w	w	w
New York	w	w	w	w	w	w
Ohio	\$46.86	\$48.02	\$45.10	\$46.86	\$45.10	3.9
Pennsylvania	46.57	47.35	46.07	46.57	46.07	1.1
Utah	w	w	w	w	w	w
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
By Plant Type						
Merchant Coke Plants	\$47.16	\$46.18	\$47.54	\$47.16	\$47.54	-.8
Furnace Coke Plants	48.71	47.72	47.93	48.71	47.93	1.6
U.S. Total	48.50	47.51	47.88	48.50	47.88	1.3

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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
New England Total	148	228	429	148	429	-85.4
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	360	494	335	360	335	7.5
Pennsylvania	1,163	1,220	950	1,163	950	22.5
East North Central Total	4,291	4,682	3,819	4,291	3,819	12.4
Illinois	1,133	1,090	756	1,133	756	49.7
Indiana	1,166	1,140	1,071	1,166	1,071	8.9
Michigan	477	1,001	469	477	469	1.6
Ohio	1,086	1,006	1,129	1,086	1,129	-3.8
Wisconsin	430	444	394	430	394	9.2
West North Central Total	3,038	3,470	2,841	3,038	2,841	6.9
Iowa	452	596	414	452	414	9.2
Kansas	31	67	24	31	24	29.3
Minnesota	292	380	282	292	282	3.6
Missouri	249	333	247	249	247	.8
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	302	392	289	302	289	4.7
Georgia	487	424	507	487	507	-3.8
Maryland	170	186	150	170	150	13.2
North Carolina	655	641	717	655	717	-8.7
South Carolina	624	626	547	624	547	14.2
Virginia	801	771	1,111	801	1,111	-27.9
West Virginia	472	533	677	472	677	-30.3
East South Central Total	w	w	w	w	w	w
Alabama	622	835	732	622	732	-15.0
Kentucky	645	466	408	645	408	58.1
Mississippi	w	w	w	w	w	w
Tennessee	917	995	990	917	990	-7.4
West South Central Total	1,655	1,391	1,106	1,655	1,106	49.6
Arkansas	79	79	69	79	69	14.1
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	1,189	896	749	1,189	749	58.8
Mountain Total	1,233	1,253	1,271	1,233	1,271	-3.0
Arizona	164	154	156	164	156	5.1
Colorado	175	224	213	175	213	-17.9
Idaho	109	129	168	109	168	-35.5
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	170	94	99	170	99	70.7
Wyoming	472	495	508	472	508	-6.9
Pacific Total	474	804	802	474	802	-40.9
Alaska	-	-	-	-	-	-
California	411	661	718	411	718	-42.8
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	35	38	43	35	43	-19.3
U.S. Total	16,245	19,568	17,835	16,245	17,835	2.3

w Withheld to avoid disclosure of individual company data.

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

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

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

Census Division and State	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
New England Total	\$62.10	\$66.34	\$68.86	\$62.10	\$68.86	-9.8
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	w	w	w	w	w	w
New Jersey	w	w	w	w	w	w
New York	\$37.83	\$42.85	\$43.72	\$37.83	\$43.72	-13.5
Pennsylvania	36.51	35.40	37.20	36.51	37.20	-1.8
East North Central Total	34.74	35.54	35.67	34.74	35.67	-2.6
Illinois	28.15	28.37	29.68	28.15	29.68	-5.1
Indiana	31.60	31.58	32.98	31.60	32.98	-4.2
Michigan	44.82	43.48	44.82	44.82	44.82	*
Ohio	35.55	36.17	35.56	35.55	35.56	*
Wisconsin	42.63	43.10	44.50	42.63	44.50	-4.2
West North Central Total	18.62	18.28	17.31	18.62	17.31	7.6
Iowa	25.18	26.49	23.91	25.18	23.91	5.3
Kansas	35.29	32.10	34.38	35.29	34.38	2.7
Minnesota	34.38	35.94	34.97	34.38	34.97	-1.7
Missouri	33.61	30.82	34.34	33.61	34.34	-2.1
Nebraska	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic Total	w	w	w	w	w	w
Delaware	w	w	w	w	w	w
District of Columbia	-	-	-	-	-	-
Florida	\$49.78	\$48.71	\$48.08	\$49.78	\$48.08	3.5
Georgia	45.04	45.26	44.56	45.04	44.56	1.1
Maryland	31.63	35.52	32.04	31.63	32.04	-1.3
North Carolina	43.14	44.13	43.99	43.14	43.99	-1.9
South Carolina	44.41	43.20	43.47	44.41	43.47	2.2
Virginia	41.51	40.78	40.63	41.51	40.63	2.2
West Virginia	31.67	30.97	31.41	31.67	31.41	.8
East South Central Total	w	w	w	w	w	w
Alabama	\$40.55	\$40.33	\$39.70	\$40.55	\$39.70	2.1
Kentucky	43.91	43.30	43.93	43.91	43.93	*
Mississippi	w	w	w	w	w	w
Tennessee	\$35.82	\$35.83	\$35.66	\$35.82	\$35.66	.4
West South Central Total	22.92	26.96	26.03	22.92	26.03	-11.9
Arkansas	42.99	45.94	44.96	42.99	44.96	-4.4
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	\$19.23	\$22.47	\$20.97	\$19.23	\$20.97	-8.3
Mountain Total	26.69	29.21	29.28	26.69	29.28	-2.0
Arizona	40.73	41.16	40.92	40.73	40.92	-.4
Colorado	27.13	29.89	29.69	27.13	29.69	-8.6
Idaho	32.22	32.71	34.26	32.22	34.26	-6.0
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	\$24.99	\$23.99	\$25.64	\$24.99	\$25.64	-2.5
Wyoming	24.10	24.67	24.26	24.10	24.26	-.6
Pacific Total	41.11	41.40	44.39	41.11	44.39	-7.4
Alaska	-	-	-	-	-	-
California	40.01	40.47	44.23	40.01	44.23	-9.6
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	\$58.30	\$54.79	\$55.41	\$58.30	\$55.41	5.2
U.S. Total	32.90	33.31	33.84	32.90	33.84	-2.2

* 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".

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

SIC Code	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
20 Food and kindred products	2,017	2,299	1,972	2,017	1,972	2.2
21 Tobacco products	172	193	201	172	201	-14.5
22 Textile mill products	350	363	362	350	362	-3.3
23 Apparel, other textile products	w	w	w	w	w	w
24 Lumber and wood products	11	28	15	11	15	-20.8
25 Furniture and fixtures	18	21	24	18	24	-24.9
26 Paper and allied products	3,122	2,832	3,076	3,122	3,076	1.5
27 Printing and publishing	w	w	w	w	w	w
28 Chemicals, allied products	3,447	3,370	3,542	3,447	3,542	-2.7
29 Petroleum and coal products ¹	1,816	2,045	1,885	1,816	1,885	-3.6
30 Rubber, misc. plastic products	78	72	80	78	80	-2.2
31 Leather, leather products	4	4	8	4	8	-52.2
32 Stone, clay, glass products	2,403	3,358	2,207	2,403	2,207	8.8
33 Primary metal industries ²	1,772	1,505	1,543	1,772	1,543	14.8
34 Fabricated metal products	74	135	101	74	101	-26.7
35 Machinery, except electric	108	109	86	108	86	26.1
36 Electric, electronic equipment	92	78	88	92	88	5.0
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	16,202	17,126	15,889	16,202	15,889	2.0

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

SIC Code	January - March 1993	October - December 1992	January - March 1992	Percent Difference January - March: 1993 versus 1992
20 Food and kindred products	\$29.39	\$30.44	\$29.91	-1.7
21 Tobacco products	46.07	46.54	46.70	-1.3
22 Textile mill products	45.49	45.11	45.64	-.3
23 Apparel, other textile products	w	w	w	w
24 Lumber and wood products	\$41.32	\$45.44	\$40.34	2.4
25 Furniture and fixtures	47.35	46.91	46.69	1.4
26 Paper and allied products	41.08	42.24	41.44	-.9
27 Printing and publishing	w	w	w	w
28 Chemicals, allied products	\$35.38	\$35.32	\$35.18	.6
29 Petroleum and coal products ¹	12.85	11.89	11.94	7.6
30 Rubber, misc. plastic products	37.18	37.22	38.68	-3.9
31 Leather, leather products	41.31	43.15	46.43	-11.0
32 Stone, clay, glass products	35.80	35.39	36.26	-1.3
33 Primary metal industries ²	25.36	28.50	30.57	-17.0
34 Fabricated metal products	50.73	49.15	48.79	4.0
35 Machinery, except electric	32.46	34.55	36.44	-10.9
36 Electric, electronic equipment	45.11	43.59	44.78	.7
37 Transportation equipment	w	w	w	w
38 Instruments, related products	w	w	w	w
39 Misc. manufacturing industries	w	w	w	w
U.S. Total	\$32.90	\$33.31	\$33.64	-2.2

¹ Includes coal gasification projects.

² Excludes coke plants.

w Withheld to avoid disclosure of individual company data.

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

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

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

Census Division and State	January-March 1993	October-December 1992	January-March 1992	Year to Date		
				1993	1992	Percent Change
New England Total	23	40	21	23	21	9.7
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	469	495	620	469	620	-24.3
New Jersey	w	w	w	w	w	w
New York	w	w	w	w	w	w
Pennsylvania	400	431	552	400	552	-27.6
East North Central Total	476	456	430	476	430	10.9
Illinois	w	w	w	w	w	w
Indiana	182	155	125	182	125	45.2
Michigan	w	w	w	w	w	w
Ohio	158	194	191	158	191	-17.1
Wisconsin	w	w	w	w	w	w
West North Central Total	w	w	w	w	w	w
Iowa	11	*	24	11	24	-54.0
Kansas	18	*	*	18	*	NM
Minnesota	3	5	19	3	19	-86.2
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	279	250	158	279	158	76.2
Delaware	w	w	w	w	w	w
District of Columbia	26	13	28	26	28	-8.1
Florida	*	15	*	*	*	NM
Georgia	6	7	6	6	6	-6
Maryland	w	w	w	w	w	w
North Carolina	72	104	40	72	40	80.6
South Carolina	37	16	3	37	3	NM
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
East South Central Total	293	187	109	293	109	168.8
Alabama	24	28	24	24	24	1.5
Kentucky	w	w	w	w	w	w
Mississippi	w	w	w	w	w	w
Tennessee	w	w	w	w	w	w
West South Central Total	5	4	5	5	5	1.8
Arkansas	*	*	2	*	2	-87.6
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	4	4	3	4	3	36.4
Mountain Total	w	w	w	w	w	w
Arizona	*	2	-	*	-	-
Colorado	9	24	18	9	18	-48.8
Idaho	15	21	15	15	15	.8
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	w	w	w	w	w	w
Wyoming	69	48	36	69	36	91.0
Pacific Total	192	187	172	192	172	11.6
Alaska	160	157	149	160	149	7.3
California	*	*	*	*	*	NM
Oregon	1	*	*	1	*	191.9
Washington	31	29	22	31	22	38.6
U.S. Total	2,052	1,925	1,843	2,052	1,843	11.4

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

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

w Withheld to avoid disclosure of individual company data.

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

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

Consumption

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

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

Note: Each increment represents end-of-quarter data.
 Sources: Energy Information Administration (EIA), Electric Utilities: Form EIA-750, "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	211,666
July - September	211,658	9,476	18,244	1,443	240,821
October - December	193,915	9,562	20,405	2,096	225,978
Total	773,549	38,877	76,330	6,724	895,480
1991 January - March	189,291	8,291	19,618	2,008	219,208
April - June	182,488	8,075	17,139	1,055	208,757
July - September	208,133	8,777	18,051	1,132	236,093
October - December	192,356	8,711	20,596	1,899	223,562
Total	772,268	33,854	75,405	6,094	887,621
1992 January - March	191,151	8,340	19,196	1,843	220,531
April - June	183,507	8,097	17,299	1,149	210,052
July - September	210,419	8,200	17,802	1,236	237,658
October - December	194,783	7,729	19,594	1,925	224,031
Total	779,860	32,366	73,891	6,153	892,270
1993 January - March	200,764	7,783	19,096	2,052	229,695
Total	200,764	7,783	19,096	2,052	229,695

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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
New England Total	1,649	1,667	2,222	1,649	2,222	-16.8
Connecticut	243	209	255	243	255	-4.6
Maine	69	206	364	69	364	-81.1
Massachusetts	1,105	1,100	1,220	1,105	1,220	-9.5
New Hampshire	429	345	376	429	376	14.1
Rhode Island	1	2	1	1	1	-7.9
Vermont	1	4	5	1	5	-68.2
Middle Atlantic Total	18,637	17,389	18,549	18,637	18,549	.5
New Jersey	778	735	616	778	616	26.2
New York	3,180	3,034	3,401	3,180	3,401	-6.5
Pennsylvania	14,679	13,620	14,532	14,679	14,532	1.0
East North Central Total	53,379	50,462	51,833	53,379	51,833	3.0
Illinois	9,223	7,800	8,660	9,223	8,660	6.5
Indiana	15,957	15,014	14,934	15,957	14,934	6.9
Michigan	7,613	8,161	7,880	7,613	7,880	-3.4
Ohio	15,183	14,196	15,235	15,183	15,235	-.3
Wisconsin	5,403	5,291	5,124	5,403	5,124	5.4
West North Central Total	30,715	30,039	30,083	30,715	30,083	2.1
Iowa	5,019	4,312	4,960	5,019	4,960	1.2
Kansas	3,899	3,594	3,740	3,899	3,740	4.3
Minnesota	4,678	4,759	4,452	4,678	4,452	5.1
Missouri	5,830	6,495	5,904	5,830	5,904	-1.3
Nebraska	2,572	1,980	2,287	2,572	2,287	12.5
North Dakota	8,073	8,101	8,118	8,073	8,118	-.6
South Dakota	644	798	622	644	622	3.7
South Atlantic Total	35,898	34,637	33,606	35,898	33,606	6.8
Delaware	564	378	428	564	428	31.8
District of Columbia	26	13	28	26	28	-8.1
Florida	6,434	6,261	6,032	6,434	6,032	6.7
Georgia	5,784	6,047	4,992	5,784	4,992	15.9
Maryland	2,447	2,345	2,236	2,447	2,236	9.4
North Carolina	5,944	5,820	5,317	5,944	5,317	11.8
South Carolina	2,931	2,586	2,570	2,931	2,570	14.0
Virginia	3,894	3,024	3,881	3,894	3,881	.3
West Virginia	7,874	8,363	8,122	7,874	8,122	-3.1
East South Central Total	24,283	22,762	21,990	24,283	21,990	10.4
Alabama	6,814	7,777	6,808	6,814	6,808	.1
Kentucky	9,768	9,000	8,200	9,768	8,200	19.1
Mississippi	775	620	804	775	804	-3.5
Tennessee	6,928	5,366	6,178	6,928	6,178	12.1
West South Central Total	33,712	33,997	31,212	33,712	31,212	8.0
Arkansas	2,743	3,536	2,670	2,743	2,670	2.7
Louisiana	3,269	3,411	3,141	3,269	3,141	4.1
Oklahoma	4,535	4,691	4,060	4,535	4,060	11.7
Texas	23,165	22,357	21,342	23,165	21,342	8.5
Mountain Total	28,174	29,568	27,892	28,174	27,892	1.0
Arizona	4,314	4,846	4,020	4,314	4,020	7.3
Colorado	4,326	4,225	4,242	4,326	4,242	2.0
Idaho	183	217	227	183	227	-19.4
Montana	2,763	3,045	3,080	2,763	3,080	-10.3
Nevada	2,446	1,907	2,126	2,446	2,126	15.0
New Mexico	3,459	3,981	3,265	3,459	3,265	5.9
Utah	3,971	4,143	4,044	3,971	4,044	-1.8
Wyoming	6,710	7,204	6,888	6,710	6,888	-2.6
Pacific Total	3,048	3,310	3,144	3,048	3,144	-3.0
Alaska	243	238	231	243	231	5.0
California	411	693	702	411	702	-41.5
Hawaii	8	14	6	8	6	29.7
Oregon	605	628	653	605	653	-7.4
Washington	1,781	1,737	1,551	1,781	1,551	14.8
U.S. Total	229,695	224,031	220,531	229,695	220,531	4.2

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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
New England Total	1,674	1,599	1,781	1,674	1,781	-6.0
Connecticut	238	196	249	238	249	-4.2
Maine	-	-	-	-	-	-
Massachusetts	1,073	1,063	1,161	1,073	1,161	-7.6
New Hampshire	363	340	371	363	371	-2.2
Rhode Island	-	-	-	-	-	-
Vermont	-	-	-	-	-	-
Middle Atlantic Total	13,790	12,333	13,725	13,790	13,725	.5
New Jersey	695	681	542	695	542	28.3
New York	2,403	2,316	2,618	2,403	2,618	-8.2
Pennsylvania	10,693	9,336	10,566	10,693	10,566	1.2
East North Central Total	45,014	42,733	43,300	45,014	43,300	4.0
Illinois	7,459	6,098	7,089	7,459	7,089	5.2
Indiana	12,762	12,380	11,675	12,762	11,675	9.3
Michigan	6,672	7,236	6,976	6,672	6,976	-4.4
Ohio	13,219	12,177	12,936	13,219	12,936	2.2
Wisconsin	4,902	4,842	4,624	4,902	4,624	6.0
West North Central Total	27,246	26,398	26,679	27,246	26,679	2.1
Iowa	4,324	3,634	4,275	4,324	4,275	1.2
Kansas	3,851	3,526	3,717	3,851	3,717	3.6
Minnesota	4,364	4,373	4,139	4,364	4,139	5.4
Missouri	5,476	6,148	5,535	5,476	5,535	-1.1
Nebraska	2,482	1,835	2,200	2,482	2,200	12.9
North Dakota	6,177	6,174	6,228	6,177	6,228	-.8
South Dakota	571	708	585	571	585	-2.4
South Atlantic Total	31,321	30,163	28,812	31,321	28,812	8.7
Delaware	525	344	392	525	392	34.1
District of Columbia	-	-	-	-	-	-
Florida	6,110	5,864	5,776	6,110	5,776	5.8
Georgia	5,297	5,597	4,464	5,297	4,464	18.7
Maryland	2,274	2,158	2,073	2,274	2,073	9.7
North Carolina	5,213	4,872	4,566	5,213	4,566	14.3
South Carolina	2,317	1,976	2,000	2,317	2,000	15.9
Virginia	2,699	1,985	2,492	2,699	2,492	8.3
West Virginia	6,880	7,367	7,050	6,880	7,050	-2.4
East South Central Total	20,652	19,123	18,650	20,652	18,650	10.7
Alabama	5,422	6,105	5,248	5,422	5,248	3.3
Kentucky	8,752	8,161	7,471	8,752	7,471	17.1
Mississippi	709	547	755	709	755	-6.0
Tennessee	5,769	4,310	5,176	5,769	5,176	11.5
West South Central Total	32,233	32,355	29,925	32,233	29,925	7.7
Arkansas	2,664	3,460	2,597	2,664	2,597	2.6
Louisiana	3,125	3,231	3,000	3,125	3,000	4.2
Oklahoma	4,295	4,467	3,908	4,295	3,908	9.9
Texas	22,149	21,198	20,420	22,149	20,420	8.5
Mountain Total	26,485	27,781	26,115	26,485	26,115	1.4
Arizona	4,163	4,685	3,872	4,163	3,872	7.5
Colorado	4,132	3,987	4,007	4,132	4,007	3.1
Idaho	-	-	-	-	-	-
Montana	2,669	2,940	2,980	2,669	2,980	-10.4
Nevada	2,396	1,870	2,081	2,396	2,081	15.1
New Mexico	3,445	3,965	3,252	3,445	3,252	6.0
Utah	3,509	3,690	3,557	3,509	3,557	-1.3
Wyoming	6,171	6,644	6,366	6,171	6,366	-3.1
Pacific Total	2,349	2,298	2,164	2,349	2,164	8.5
Alaska	82	81	82	82	82	.7
California	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Oregon	569	548	610	569	610	-6.8
Washington	1,697	1,669	1,472	1,697	1,472	15.3
U.S. Total	200,764	194,783	191,151	200,764	191,151	5.0

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

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

Census Division and State	January - March 1993	October - December 1992	January - March 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	2,443	2,617	2,456	2,443	2,456	-0.6
East North Central Total	3,056	2,791	3,574	3,056	3,574	-14.5
Illinois	w	w	w	w	w	w
Indiana	1,773	1,344	2,004	1,773	2,004	-11.5
Michigan	w	w	w	w	w	w
Ohio	711	864	969	711	969	-26.7
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	788	808	836	788	836	-5.7
Kentucky	w	w	w	w	w	w
Mississippi	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-
West South Central Total	-	-	-	-	-	-
Arkansas	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-
Texas	-	-	-	-	-	-
Mountain Total	w	w	w	w	w	w
Arizona	-	-	-	-	-	-
Colorado	-	-	-	-	-	-
Idaho	-	-	-	-	-	-
Montana	-	-	-	-	-	-
Nevada	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-
Utah	w	w	w	w	w	w
Wyoming	-	-	-	-	-	-
Pacific Total	-	-	-	-	-	-
Alaska	-	-	-	-	-	-
California	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-
Oregon	-	-	-	-	-	-
Washington	-	-	-	-	-	-
By Plant Type						
Merchant Coke Plants	1,059	1,073	1,082	1,059	1,082	-2.1
Furnace Coke Plants	6,724	6,657	7,258	6,724	7,258	-7.4
U.S. Total	7,783	7,729	8,340	7,783	8,340	-6.7

w Withheld to avoid disclosure of individual company data.

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

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

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

Census Division and State	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
New England Total	151	228	419	151	419	-63.9
Connecticut	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	w	w	w	w	w	w
Rhode Island	w	w	w	w	w	w
Vermont	w	w	w	w	w	w
Middle Atlantic Total	w	w	w	w	w	w
New Jersey	w	w	w	w	w	w
New York	449	395	413	449	413	8.7
Pennsylvania	1,144	1,236	958	1,144	958	19.5
East North Central Total	4,833	4,482	4,530	4,833	4,530	6.7
Illinois	1,098	1,040	893	1,098	893	23.0
Indiana	1,239	1,135	1,129	1,239	1,129	9.8
Michigan	899	900	869	899	869	3.5
Ohio	1,095	961	1,140	1,095	1,140	-4.0
Wisconsin	501	446	499	501	499	.5
West North Central Total	3,300	3,521	3,253	3,300	3,253	1.5
Iowa	683	678	661	683	661	3.4
Kansas	30	68	23	30	23	32.9
Minnesota	312	381	294	312	294	6.1
Missouri	280	287	307	280	307	-9.0
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	324	382	255	324	255	26.6
Georgia	481	443	522	481	522	-7.8
Maryland	170	184	159	170	159	7.3
North Carolina	654	645	711	654	711	-8.0
South Carolina	577	593	567	577	567	1.8
Virginia	870	736	1,098	870	1,098	-20.7
West Virginia	480	529	683	480	683	-29.7
East South Central Total	w	w	w	w	w	w
Alabama	580	836	700	580	700	-17.1
Kentucky	656	463	397	656	397	65.0
Mississippi	w	w	w	w	w	w
Tennessee	981	977	968	981	968	1.3
West South Central Total	1,473	1,637	w	1,473	1,283	14.9
Arkansas	78	78	71	78	71	10.1
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	1,011	1,155	919	1,011	919	10.1
Mountain Total	1,279	1,325	1,318	1,279	1,318	-2.9
Arizona	151	159	148	151	148	2.2
Colorado	185	213	216	185	216	-14.5
Idaho	168	196	212	168	212	-20.8
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	157	96	116	157	116	35.3
Wyoming	470	512	485	470	485	-3.1
Pacific Total	507	825	808	507	808	-37.2
Alaska	-	w	-	w	-	-
California	411	693	702	411	702	-41.5
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	52	38	57	52	57	-7.2
U.S. Total	19,096	19,594	19,196	19,096	19,196	-5

* 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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
20 Food and kindred products	2,264	2,411	2,246	2,264	2,246	0.8
21 Tobacco products	184	178	186	184	186	-1.2
22 Textile mill products	370	333	359	370	359	3.3
23 Apparel, other textile products	w	w	w	w	w	w
24 Lumber and wood products	27	26	28	27	28	-2.0
25 Furniture and fixtures	35	30	37	35	37	-6.1
26 Paper and allied products	3,302	2,830	3,234	3,302	3,234	2.1
27 Printing and publishing	w	w	w	w	w	w
28 Chemicals, allied products	3,570	3,333	3,585	3,570	3,585	-.4
29 Petroleum and coal products ¹	1,759	2,034	1,923	1,759	1,923	-8.5
30 Rubber, misc. plastic products	78	71	81	78	81	-4.2
31 Leather, leather products	4	4	8	4	8	-53.1
32 Stone, clay, glass products	2,735	3,175	2,601	2,735	2,601	5.2
33 Primary metal industries ²	1,623	1,768	1,714	1,623	1,714	-5.3
34 Fabricated metal products	113	95	135	113	135	-16.2
35 Machinery, except electric	180	137	146	180	146	23.1
36 Electric, electronic equipment	99	74	89	99	69	10.5
37 Transportation equipment	w	w	w	w	w	w
38 Instruments, related products	w	w	w	w	w	w
39 Misc. manufacturing industries	w	w	w	w	w	w
U.S. Total	17,207	17,152	17,156	17,207	17,156	.3

¹ Includes coal gasification projects.

² Excludes coke plants.

w Withheld to avoid disclosure of individual company data.

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

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

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

Census Division and State	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
New England Total	23	40	21	23	21	9.7
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	469	495	620	469	620	-24.3
New Jersey	w	w	w	w	w	w
New York	w	w	w	w	w	w
Pennsylvania	400	431	552	400	552	-27.6
East North Central Total	478	456	430	478	430	10.9
Illinois	w	w	w	w	w	w
Indiana	182	155	125	182	125	45.2
Michigan	w	w	w	w	w	w
Ohio	158	194	191	158	191	-17.1
Wisconsin	w	w	w	w	w	w
West North Central Total	w	w	w	w	w	w
Iowa	11	*	24	11	24	-54.0
Kansas	18	*	*	18	*	NM
Minnesota	3	5	19	3	19	-86.2
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	279	250	158	279	158	76.2
Delaware	w	w	w	w	w	w
District of Columbia	26	13	28	26	28	-8.1
Florida	*	15	*	*	*	-79.6
Georgia	6	7	6	6	6	-6
Maryland	w	w	w	w	w	w
North Carolina	72	104	40	72	40	80.6
South Carolina	37	16	3	37	3	NM
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
East South Central Total	293	187	109	293	109	168.8
Alabama	24	28	24	24	24	1.5
Kentucky	w	w	w	w	w	w
Mississippi	w	w	w	w	w	w
Tennessee	w	w	w	w	w	w
West South Central Total	5	4	5	5	5	1.8
Arkansas	*	*	2	*	2	-87.6
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	*	w	w	w
Texas	4	4	3	4	3	36.4
Mountain Total	w	w	w	w	w	w
Arizona	*	2	-	*	-	-
Colorado	9	24	18	9	18	-48.8
Idaho	15	21	15	15	15	.8
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	w	w	w	w	w	w
Wyoming	69	48	36	69	36	91.0
Pacific Total	192	187	172	192	172	11.6
Alaska	160	157	149	160	149	7.3
California	*	*	*	*	*	-75.0
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	31	29	22	31	22	38.6
U.S. Total	2,052	1,925	1,843	2,052	1,843	11.4

* 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-739, "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	139,036	3,518	6,683	149,238	35,508	184,745
June 30	148,981	3,361	6,671	159,013	30,598	189,612
September 30	135,640	3,707	7,818	147,165	28,848	176,013
December 31	135,860	2,864	7,363	146,087	29,000	175,087
1990 March 31	150,118	3,680	6,984	160,782	35,099	195,881
June 30	161,908	3,739	7,413	173,061	36,895	209,956
September 30	149,913	3,124	8,603	161,639	33,659	195,298
December 31	156,166	3,329	8,716	168,210	33,418	201,629
1991 March 31	161,084	3,130	7,271	171,485	42,162	213,647
June 30	163,459	3,283	6,921	173,663	41,054	214,716
September 30	153,907	2,695	7,258	163,860	33,628	197,488
December 31	157,876	2,773	7,061	167,711	32,971	200,682
1992 March 31	160,032	2,875	5,725	168,632	39,853	208,485
June 30	164,176	2,776	6,314	173,267	40,513	213,780
September 30	152,685	2,215	6,979	161,878	35,198	197,076
December 31	154,130	2,597	6,964	163,691	33,993	197,684
1993 March 31	143,978	2,809	5,872	152,659	38,319	190,977

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,
March 31, 1993**
(Thousand Short Tons)

Census Division and State	Electric Utilities	Coke Plants	Other Industrial ¹	Total
New England Total	1,067	-	13	1,080
Connecticut	161	-	w	w
Maine	-	-	w	w
Massachusetts	527	-	w	w
New Hampshire	378	-	w	w
Rhode Island	-	-	w	w
Vermont	-	-	w	w
Middle Atlantic Total	16,304	w	w	17,868
New Jersey	723	-	w	w
New York	1,787	w	317	w
Pennsylvania	13,794	793	255	14,841
East North Central Total	35,712	997	1,830	38,538
Illinois	6,380	w	320	w
Indiana	9,284	504	658	10,447
Michigan	6,712	w	433	w
Ohio	10,371	190	219	10,780
Wisconsin	2,965	-	201	3,165
West North Central Total	17,124	-	744	17,867
Iowa	3,318	-	327	3,644
Kansas	2,301	-	12	2,313
Minnesota	1,747	-	57	1,804
Missouri	5,833	-	199	6,033
Nebraska	1,626	-	w	w
North Dakota	2,029	-	w	w
South Dakota	271	-	w	w
South Atlantic Total	26,597	w	w	27,902
Delaware	329	-	w	w
District of Columbia	-	-	-	-
Florida	3,948	-	84	4,033
Georgia	5,038	-	148	5,186
Maryland	2,324	w	35	w
North Carolina	3,960	-	204	4,164
South Carolina	2,164	-	256	2,420
Virginia	1,399	w	204	w
West Virginia	7,436	w	148	w
East South Central Total	14,927	w	w	15,987
Alabama	4,988	411	166	5,566
Kentucky	5,196	w	116	w
Mississippi	872	-	w	w
Tennessee	3,871	-	203	4,074
West South Central Total	15,362	21	576	15,959
Arkansas	1,397	-	20	1,417
Louisiana	1,763	-	68	1,831
Oklahoma	3,096	-	84	3,180
Texas	9,105	21	405	9,531
Mountain Total	15,856	w	311	w
Arizona	3,607	-	66	3,673
Colorado	3,458	-	19	3,477
Idaho	-	-	50	50
Montana	822	-	w	w
Nevada	1,232	-	w	w
New Mexico	1,492	-	w	w
Utah	3,288	w	29	w
Wyoming	1,956	-	89	2,045
Pacific Total	1,030	-	195	1,224
Alaska	5	-	-	5
California	-	-	126	126
Hawaii	-	-	w	w
Oregon	576	-	w	w
Washington	449	-	21	469
U.S. Total	143,978	2,809	5,872	152,659

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	March 31, 1993	December 31, 1992	March 31, 1992	Percent Difference March 31: 1993 versus 1992
New England Total	1,067	1,237	961	11.0
Connecticut	161	150	164	-1.7
Maine	-	-	-	-
Massachusetts	527	727	460	14.6
New Hampshire	378	361	337	12.3
Rhode Island	-	-	-	-
Vermont	-	-	-	-
Middle Atlantic Total	16,304	17,743	16,049	1.6
New Jersey	723	771	752	-3.9
New York	1,787	2,106	1,341	33.2
Pennsylvania	13,794	14,866	13,956	-1.2
East North Central Total	35,712	40,250	39,844	-10.4
Illinois	6,380	7,399	6,735	-5.3
Indiana	9,284	11,294	11,113	-16.5
Michigan	6,712	7,402	7,516	-10.7
Ohio	10,371	10,395	10,696	-3.0
Wisconsin	2,965	3,760	3,784	-21.7
West North Central Total	17,124	19,712	19,698	-13.1
Iowa	3,318	4,301	3,966	-16.4
Kansas	2,301	2,747	3,328	-30.9
Minnesota	1,747	2,175	2,123	-17.7
Missouri	5,833	6,211	6,114	-4.6
Nebraska	1,626	1,798	1,879	-13.5
North Dakota	2,029	2,194	1,996	1.6
South Dakota	271	285	291	-7.1
South Atlantic Total	26,597	27,977	30,607	-13.1
Delaware	329	361	488	-32.5
District of Columbia	-	-	-	-
Florida	3,948	4,021	5,005	-21.1
Georgia	5,038	4,692	6,343	-20.6
Maryland	2,324	2,400	2,255	3.1
North Carolina	3,960	4,512	4,752	-16.7
South Carolina	2,164	2,206	2,373	-8.8
Virginia	1,399	1,922	1,448	-3.4
West Virginia	7,436	7,863	7,943	-6.4
East South Central Total	14,927	13,401	15,031	-7
Alabama	4,988	4,071	4,970	4
Kentucky	5,196	5,415	6,019	-13.7
Mississippi	872	899	905	-3.6
Tennessee	3,871	3,016	3,137	23.4
West South Central Total	15,362	16,483	18,323	-16.2
Arkansas	1,397	1,572	2,278	-38.7
Louisiana	1,763	1,701	1,987	-11.3
Oklahoma	3,096	3,066	2,960	4.6
Texas	9,105	10,143	11,098	-18.0
Mountain Total	15,858	16,009	18,152	-12.6
Arizona	3,607	3,543	4,411	-18.2
Colorado	3,458	3,410	3,401	1.7
Idaho	-	-	-	-
Montana	822	735	748	9.9
Nevada	1,232	1,447	1,411	-12.7
New Mexico	1,492	1,570	1,426	4.7
Utah	3,288	3,153	3,851	-14.6
Wyoming	1,956	2,153	2,904	-32.6
Pacific Total	1,030	1,317	1,367	-24.6
Alaska	5	6	8	-28.1
California	-	-	-	-
Hawaii	-	-	-	-
Oregon	576	615	470	22.5
Washington	449	697	889	-49.5
U.S. Total	143,978	154,130	160,032	-10.0

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

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

Census Division and State	March 31, 1993	December 31, 1992	March 31, 1992	Percent Difference March 31: 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	793	804	849	-6.7
East North Central Total	997	906	1,142	-12.8
Illinois	w	w	w	w
Indiana	504	481	574	-12.2
Michigan	w	w	w	w
Ohio	190	180	242	-21.5
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	411	332	362	13.6
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	333	298	370	-9.8
Furnace Coke Plants	2,476	2,300	2,506	-1.2
U.S. Total	2,809	2,597	2,875	-2.3

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	March 31, 1993	December 31, 1992	March 31, 1992	Percent Difference March 31: 1993 versus 1992
New England Total	13	16	15	-16.8
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	317	409	225	40.5
Pennsylvania	255	306	274	-7.1
East North Central Total	1,830	2,505	1,872	-2.2
Illinois	320	389	286	12.1
Indiana	658	732	706	-6.9
Michigan	433	882	491	-12.0
Ohio	219	228	179	22.4
Wisconsin	201	274	210	-4.2
West North Central Total	744	1,020	766	-2.9
Iowa	327	556	398	-17.8
Kansas	12	11	11	10.0
Minnesota	57	77	71	-20.1
Missouri	199	227	149	33.7
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	84	100	132	-36.1
Georgia	148	144	152	-2.6
Maryland	35	35	28	26.1
North Carolina	204	203	215	-4.9
South Carolina	256	245	233	9.6
Virginia	204	275	220	-7.1
West Virginia	148	156	125	18.4
East South Central Total	w	w	w	w
Alabama	166	127	163	2.0
Kentucky	116	127	134	-13.1
Mississippi	w	w	w	w
Tennessee	203	270	242	-15.8
West South Central Total	576	395	426	35.1
Arkansas	20	19	13	49.6
Louisiana	w	w	w	w
Oklahoma	w	w	w	w
Texas	405	228	267	51.7
Mountain Total	311	352	261	19.0
Arizona	66	53	60	9.8
Colorado	19	29	17	9.5
Idaho	50	101	35	42.9
Montana	w	w	w	w
Nevada	w	w	w	w
New Mexico	w	w	w	w
Utah	29	26	22	28.1
Wyoming	89	81	91	-1.5
Pacific Total	195	211	216	-10.1
Alaska	-	-	-	-
California	126	109	155	-18.9
Hawaii	w	w	w	w
Oregon	w	w	w	w
Washington	21	39	35	-42.1
U.S. Total	5,872	6,964	5,725	2.6

* Withheld to avoid disclosure of individual company data.

Notes: Total may not equal sum of components because of independent rounding. Other industrial plants include manufacturing plants only.
Source: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

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

SIC Code	March 31, 1993	December 31, 1992	March 31, 1992	Percent Difference March 31: 1993 versus 1992
20 Food and kindred products	528	771	512	3.1
21 Tobacco products	68	79	82	-17.9
22 Textile mill products	119	137	130	-8.1
23 Apparel, other textile products	w	w	w	w
24 Lumber and wood products	16	32	22	-27.9
25 Furniture and fixtures	4	20	16	-73.6
26 Paper and allied products	945	1,147	987	-4.3
27 Printing and publishing	w	w	w	w
28 Chemicals, allied products	1,112	1,230	1,031	7.9
29 Petroleum and coal products ¹	161	136	145	11.3
30 Rubber, misc. plastic products	16	15	12	27.3
31 Leather, leather products	*	1	*	NM
32 Stone, clay, glass products	1,553	1,886	1,458	6.5
33 Primary metal industries ²	896	814	851	5.3
34 Fabricated metal products	65	104	64	1.6
35 Machinery, except electric	63	123	89	-29.1
36 Electric, electronic equipment	11	18	23	-52.8
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	5,872	6,964	5,725	2.6

¹ Includes coal gasification projects.

² Excludes coke plants.

* 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-3, "Quarterly Coal Consumption Report - Manufacturing Plants."

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

Stocks	March 31, 1993	December 31, 1992	March 31, 1992	Percent Difference March 31: 1993 versus 1992
Coke Total	1,678	1,883	2,101	-20.1
By State				
Alabama	89	139	103	-13.6
Illinois	w	w	w	w
Indiana	332	371	376	-11.8
Kentucky	w	w	w	w
Maryland	w	w	w	w
Michigan	w	w	w	w
New York	w	w	w	w
Ohio	127	153	139	-8.5
Pennsylvania	432	534	730	-40.9
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	263	267	263	.3
Furnace Coke Plants	1,415	1,616	1,838	-23.0
Breeze Total	176	215	252	-30.2

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."

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

Coal-Producing State	March 31, 1993	December 31, 1992	March 31, 1992	Percent Difference March 31: 1993 versus 1992
Alabama	2,243	2,185	2,534	-11.5
Alaska	69	71	56	22.3
Arizona	1,641	1,555	1,702	-3.6
Arkansas	4	6	2	87.0
California	-	36	21	-
Colorado	1,581	955	843	87.6
Illinois	1,955	1,969	2,859	-31.6
Indiana	826	1,016	954	-13.5
Kansas	35	28	24	44.2
Kentucky Total	5,233	3,796	6,053	-13.6
Eastern	4,067	2,809	4,141	-1.8
Western	1,166	987	1,912	-39.0
Louisiana	94	2	-	-
Maryland	134	59	106	25.8
Missouri	-	-	5	-
Montana	750	694	641	17.0
New Mexico	2,283	1,648	2,100	8.8
North Dakota	1,847	1,614	1,608	14.9
Ohio	780	1,087	587	33.0
Oklahoma	8	19	67	-88.6
Pennsylvania Total	2,914	2,903	4,309	-32.4
Anthracite	225	198	170	32.4
Bituminous	2,689	2,706	4,139	-35.0
Tennessee	40	21	62	-35.0
Texas	558	543	191	191.6
Utah	1,324	1,827	2,327	-43.1
Virginia	2,289	1,714	2,384	-4.0
Washington	51	47	34	50.0
West Virginia Total	8,655	7,405	7,225	19.8
Northern	2,732	3,222	3,089	-11.5
Southern	5,923	4,183	4,136	43.2
Wyoming	3,006	2,794	3,159	-4.9
Appalachian Total	21,122	18,183	21,348	-1.1
Interior Total	4,645	4,570	6,015	-22.8
Western Total	12,552	11,241	12,490	.5
East of the Miss. River	25,069	22,155	27,074	-7.4
West of the Miss. River	13,249	11,838	12,779	3.7
U.S. Total	38,319	33,993	39,853	-3.9

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

From January through March 1993, U.S. coal imports totaled 1.2 million short tons. This was a record quarterly total and 79 percent higher than coal imports in the first quarter of 1992.

During the first quarter of 1993, Colombia was the leading source of imported coal, followed by Venezuela and Indonesia. U.S. coal imports totaled 552 thousand short tons from Colombia and 245 thousand short tons from Venezuela, an increase of 129 percent and 65 percent, respectively, over the first quarter of 1992. Coal imports from Indonesia, amounted to 242 thousand short tons. Most of the Indonesian coal went to an independent power producer in Hawaii, while the remainder went to Mississippi Power's Daniel plant.

Receipts of coal imports at electric utility plants during the first 3 months of 1993, totaled 714 thousand short tons, 92 percent above the level for the first quarter of 1992. This increase can be primarily attributed to higher receipts at the St. Johns River plant of Jacksonville Electric Authority (JEA) and the Daniel plant of Mississippi Power. The JEA received 520 thousand short tons of imported coal from Colombia, 152 percent more than in January through March 1992. Receipts of imported coal from Indonesia at Mississippi Power's Daniel plant in the first quarter of 1993 were 68 thousand short tons. These were the first shipments of imported coal to this plant since 1989, when coal was imported from Colombia.

Coal imports for the first 3 months of 1993 were valued at \$37 million based on an average price of \$30.70 per short ton.

Table A1. Quantity and Average Price of U.S. Coal Imports, 1985-1993
(Thousand Short Tons and Dollars per Short Ton)

Year	January - March		April - June		July - September		October - December		U.S. Total	
	Quantity	Average Price	Quantity	Average Price	Quantity	Average Price	Quantity	Average Price	Quantity	Average Price
1985	330	\$37.74	500	\$35.24	623	\$36.75	500	\$34.82	1,952	\$36.04
1986	485	34.21	576	36.14	537	35.90	614	37.44	2,212	36.02
1987	331	35.04	483	31.69	475	31.94	459	30.35	1,747	32.04
1988	542	28.94	587	33.74	437	26.77	567	29.47	2,134	29.96
1989	531	33.65	687	34.19	925	34.92	708	33.44	2,851	34.14
1990	735	35.07	674	33.67	514	32.05	776	36.14	2,699	34.45
1991	938	33.71	730	34.60	984	31.45	738	33.16	3,390	33.12
1992	679	33.63	1,043	32.96	882	34.43	1,199	33.08	3,803	33.46
1993	1,213	30.70	NA	NA	NA	NA	NA	NA	1,213	30.70

NA Not available.

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

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

Table A2. Quantity and Average Price of U.S. Coal Imports by Origin, 1985-1993
(Thousand Short Tons and Dollars per Short Ton)

Year and Quarter	Australia	Canada	Colombia	Indonesia	Malaysia	Venezuela	Other Countries	Total
Quantity								
1985	39	404	594	-	-	-	915	1,952
1986	6	433	742	*	-	-	1,031	2,212
1987	211	507	957	-	-	30	43	1,747
1988	66	552	1,225	-	-	203	88	2,134
1989	35	1,004	1,339	-	-	357	117	2,851
1990	24	973	1,428	-	-	263	12	2,699
1991	31	935	1,881	7	-	535	*	3,390
1992								
January - March	31	258	241	-	-	149	-	679
April - June	18	255	539	140	-	92	*	1,043
July - September	23	215	478	113	-	52	*	882
October - December	29	293	505	-	53	247	72	1,199
Total	101	1,021	1,763	253	53	539	72	3,803
1993								
January - March	-	174	552	242	-	245	-	1,213
Total	-	174	552	242	-	245	-	1,213
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
Total	-	22.55	29.06	38.93	-	28.26	-	30.09

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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
U.S. Total	1,213,120	1,198,603	678,834	1,213,120	678,834	78.7
Exporting Country: Australia						
Honolulu, HI	-	28,624	31,131	-	31,131	-
Total	-	28,624	31,131	-	31,131	-
Exporting Country: Canada						
Chicago, IL	-	91,013	56,832	-	56,832	-
New Orleans, LA	-	20,098	-	-	-	-
Detroit, MI	-	58,937	-	-	-	-
Duluth, MN	212	-	-	212	-	-
Great Falls, MT	11,141	10,793	10,354	11,141	10,354	7.6
Pembina, ND	151,782	111,035	185,377	151,782	185,377	-18.1
Houston-Galveston, TX ..	-	23	-	-	-	-
Seattle, WA	11,024	1,057	5,020	11,024	5,020	119.6
Total	174,159	292,956	257,583	174,159	257,583	-32.4
Exporting Country: Colombia						
Tampa, FL	407,446	407,258	149,913	407,446	149,913	171.8
Boston, MA	89,276	24,658	34,681	89,276	34,681	157.4
Portland, ME	-	-	30,032	-	30,032	-
Philadelphia, PA	27,524	-	-	27,524	-	-
San Juan, PR	27,805	32,298	26,857	27,805	26,857	3.5
Houston-Galveston, TX ..	-	40,959	-	-	-	-
Total	552,051	505,173	241,483	552,051	241,483	128.6
Exporting Country: Indonesia						
Mobile, AL	74,556	-	-	74,556	-	-
Honolulu, HI	167,818	-	-	167,818	-	-
Total	242,374	-	-	242,374	-	-
Exporting Country: Malaysia						
Honolulu, HI	-	53,419	-	-	-	-
Total	-	53,419	-	-	-	-
Exporting Country: Venezuela						
Mobile, AL	66,088	-	-	66,088	-	-
New Orleans, LA	70,272	62,586	-	70,272	-	-
Boston, MA	-	34,879	-	-	-	-
Portland, ME	26,479	26,249	28,313	26,479	28,313	-6.5
Philadelphia, PA	-	34,010	34,344	-	34,344	-
San Juan, PR	27,558	27,558	-	27,558	-	-
Virgin Islands	54,139	61,233	85,980	54,139	85,980	-37.0
Total	244,536	246,515	148,637	244,536	148,637	64.5
Other Exporting Countries						
New Orleans, LA	-	71,916	-	-	-	-
Total	-	71,916	-	-	-	-

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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
Total	\$30.09	\$31.95	\$32.74	\$30.09	\$32.74	-8.1
Exporting Country: Australia						
Honolulu, HI	-	\$33.67	\$33.38	-	\$33.38	-
Total	-	33.67	33.38	-	33.38	-
Exporting Country: Canada						
Chicago, IL	-	\$34.94	\$23.22	-	\$23.22	-
New Orleans, LA	-	38.00	-	-	-	-
Detroit, MI	-	46.71	-	-	-	-
Pembina, ND	\$21.95	26.17	24.84	\$21.95	24.84	-11.7
Seattle, WA	30.10	22.68	34.00	30.10	34.00	-11.5
Total	22.55	34.31	24.65	22.55	24.65	-8.5
Exporting Country: Colombia						
Tampa, FL	\$27.74	\$30.08	\$33.37	\$27.74	\$33.37	-16.9
Boston, MA	31.19	30.48	35.06	31.19	35.06	-11.0
Portland, ME	-	-	31.34	-	31.34	-
Philadelphia, PA	32.66	-	-	32.66	-	-
San Juan, PR	38.03	38.27	35.88	38.03	35.88	6.0
Houston-Galveston, TX ..	-	28.81	-	-	-	-
Total	29.06	30.52	33.64	29.06	33.64	-13.6
Exporting Country: Indonesia						
Mobile, AL	\$24.78	-	-	\$24.78	-	-
Honolulu, HI	45.22	-	-	45.22	-	-
Total	38.93	-	-	38.93	-	-
Exporting Country: Malaysia						
Honolulu, HI	-	\$47.06	-	-	-	-
Total	-	47.06	-	-	-	-
Exporting Country: Venezuela						
Mobile, AL	\$27.76	-	-	\$27.76	-	-
New Orleans, LA	26.12	\$26.45	-	26.12	-	-
Boston, MA	-	28.99	-	-	-	-
Portland, ME	27.52	35.75	\$45.22	27.52	\$45.22	-39.1
Philadelphia, PA	-	33.38	36.83	-	36.83	-
San Juan, PR	27.22	32.66	-	27.22	-	-
Virgin Islands	32.52	32.52	47.17	32.52	47.17	-31.1
Total	28.26	30.96	44.41	28.26	44.41	-36.4
Other Exporting Countries						
New Orleans, LA	-	\$25.71	-	-	-	-
Total	-	25.71	-	-	-	-

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	January - March 1993	October - December 1992	January - March 1992	Year to Date		
				1993	1992	Percent Change
U.S. Total	714,177	501,878	372,650	714,177	372,650	91.6
Exporting Country: Canada						
New England Power (NEES), Salem Harbor ...	-	-	32,800	-	32,800	-
Takoma Dept. of Public Utilities, Steam No.2 ..	11,680	-	5,000	11,680	5,000	133.6
Total	11,680	-	37,800	11,680	37,800	-69.1
Exporting Country: Colombia						
Central Power and Light (CSW), Coleta Creek	-	37,158	-	-	-	-
Jacksonville Electric Authority, St Johns River	519,650	367,620	206,550	519,650	206,550	151.6
New England Power (NEES), Brayton Point	40,300	-	-	40,300	-	-
New England Power (NEES), Salem Harbor ...	-	34,800	-	-	-	-
Public Serv Co of New Hampshire, Schiller	-	18,400	30,000	-	30,000	-
Total	559,950	457,978	236,550	559,950	236,550	136.7
Exporting Country: Indonesia						
Mississippi Power (Southern Co), Daniel	67,547	-	-	67,547	-	-
Ohio Edison, Burger Plant	-	13,100	-	-	-	-
Total	67,547	13,100	-	67,547	-	-
Exporting Country: Venezuela						
New England Power (NEES), Brayton Point	48,500	24,600	70,000	48,500	70,000	-30.7
Public Serv Co of New Hampshire, Schiller	26,500	6,000	28,300	26,500	28,300	-6.4
Total	75,000	30,600	98,300	75,000	98,300	-23.7

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

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

**Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants
by Origin, 1980-1993**

Exporting Country and Time Period	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Baltimore Gas and Electric, Brandon Shores						
Colombia 1989	132.0	12,361	0.57	5.30	193.3	47.79
Company and Plant: Baltimore Gas and Electric, Wagner						
Colombia 1989	115.0	12,159	0.60	6.00	196.2	47.71
Company and Plant: Central Power and Light (CSW), Coletto Creek						
Australia 1987	57.1	12,549	0.54	11.80	149.5	37.52
Colombia 1987	37.2	11,951	.53	6.50	188.8	45.13
1992 October - December	37.2	12,892	.62	7.90	174.5	44.99
Total	37.2	12,892	.62	7.90	174.5	44.99
Venezuela 1992 July - September	42.5	13,214	.66	7.20	175.8	46.46
Total	42.5	13,214	.66	7.20	175.8	46.46
Company and Plant: Florida Power Corp, Crystal River ²						
Australia 1987	26.1	12,345	0.69	9.71	141.6	34.95
1988	38.4	12,415	.66	9.31	154.4	38.34
Canada 1986	37.0	10,005	.63	13.50	133.4	26.70
Colombia 1984	17.7	12,588	.71	9.50	248.0	62.44
1985	361.7	12,483	.64	8.94	223.8	55.88
1986	418.3	12,257	.50	5.45	155.9	38.22
1987	333.3	12,236	.54	5.39	175.0	42.83
Venezuela 1987	19.3	12,744	.68	7.90	150.0	38.23
1988	192.8	13,302	.49	3.57	137.6	36.62
Company and Plant: Gulf Power, 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

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: Jacksonville Electric Authority, St Johns River						
Colombia						
1991	1,582.6	11,978	0.73	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
Total	519.6	11,903	.70	6.77	135.0	32.13
Venezuela						
1989	37.1	13,461	.48	4.00	141.0	37.96
1990	40.1	12,288	.77	11.50	170.7	41.95
1991	42.2	12,913	.56	8.90	126.9	32.77
Company and Plant: Mississippi Power (Southern Co), Daniel						
Colombia						
1987	65.9	12,206	0.49	4.27	173.5	42.35
Indonesia						
1993						
January - March	67.5	9,745	.08	1.23	168.9	32.92
Total	67.5	9,745	.08	1.23	168.9	32.92
Company and Plant: New England Power (NEES), Brayton Point						
Canada						
1984	40.0	12,846	0.53	8.90	199.4	51.23
1985	42.7	12,622	.45	9.61	179.0	45.19
Colombia						
1987	29.0	11,928	.72	7.15	132.5	31.61
1989	27.8	12,617	.67	9.09	167.1	42.17
1990	30.1	12,837	.76	8.70	177.3	45.52
1993						
January - March	40.3	12,237	.64	5.29	186.0	45.52
Total	40.3	12,237	.64	5.29	186.0	45.52
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
Total	48.5	13,034	.76	8.00	163.6	42.64
Company and Plant: New England Power (NEES), Salem Harbor						
Canada						
1992						
January - March	32.8	13,569	1.49	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

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), Salem Harbor						
Colombia						
1992						
October - December	34.8	12,893	0.58	7.02	145.3	37.47
Total	34.8	12,893	.58	7.02	145.3	37.47
Company and Plant: Ohio Edison, Burger Plant						
Indonesia						
1992						
October - December	13.1	9,587	0.14	1.20	166.9	32.00
Total	13.1	9,587	.14	1.20	166.9	32.00
Company and Plant: Public Serv Co of New Hampshire, Merrimack						
Canada						
1987	14.1	13,100	1.80	8.50	171.0	44.80
1988	46.3	13,397	2.10	5.61	175.9	47.14
Company and Plant: Public Serv Co of New Hampshire, Schiller						
Canada						
1987	1.5	13,100	1.80	8.50	146.5	38.38
1988	5.6	13,452	1.10	3.10	146.1	39.31
1990	33.6	13,459	1.30	5.90	181.0	48.72
Colombia						
1987	9.2	11,825	.67	7.30	153.8	36.37
1992						
January - March	30.0	12,154	.63	5.49	156.2	37.96
October - December	18.4	12,876	.59	7.65	158.9	40.92
Total	48.4	12,428	.61	6.31	157.2	39.08
Venezuela						
1990	110.2	13,105	.49	4.82	187.7	49.19
1991	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
Total	26.5	12,918	.66	4.47	138.9	35.89
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

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: 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
Total	11.7	10,159	.49	13.00	179.5	36.46
Company and Plant: Tampa Electric, Big Bend ²						
Indonesia						
1991	24.3	9,815	0.07	1.20	227.3	44.62
Poland						
1980	179.5	11,300	1.40	12.00	169.7	38.36
1984	109.1	12,624	.61	7.09	155.5	39.27
Company and Plant: Tampa Electric, Gannon						
Poland						
1980	57.4	12,144	0.81	9.07	183.3	44.53
1984	.2	13,238	.75	4.40	143.5	38.00
Company and Plant: Virginia Electric and Power, Chesterfield						
Colombia						
1985	29.0	11,795	0.73	7.70	175.4	41.38
Total Of U. S. Electric Utility Plants						
Australia						
1987	83.2	12,485	0.59	11.15	147.0	36.72
1988	38.4	12,415	.66	9.31	154.4	38.34
Canada						
1984	40.0	12,846	.53	8.90	199.4	51.23
1985	42.7	12,622	.45	9.61	179.0	45.19
1986	37.0	10,005	.63	13.50	133.4	26.70
1987	15.6	13,100	1.80	8.50	168.6	44.18
1988	51.9	13,403	1.99	5.34	172.7	46.29
1990	33.6	13,459	1.30	5.90	181.0	48.72
1991	26.9	9,994	.46	12.76	209.2	41.82
1992						
January - March	37.8	13,072	1.27	4.90	178.9	46.77
July - September	10.3	10,079	.42	13.42	214.5	43.25
Total	48.1	12,432	1.09	6.72	185.1	46.01
1993						
January - March	11.7	10,159	.49	13.00	179.5	36.46
Total	11.7	10,159	.49	13.00	179.5	36.46
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

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						
1992						
January - March	236.5	11,971	0.72	7.03	156.5	37.47
April - June	402.8	11,867	.71	7.33	152.4	36.17
July - September	441.6	11,906	.70	6.88	151.6	36.09
October - December	458.0	12,087	.68	6.52	145.8	35.25
Total	1,538.9	11,960	.70	6.91	150.8	36.07
1993						
January - March	559.9	11,927	.69	6.67	138.7	33.09
Total	559.9	11,927	.69	6.67	138.7	33.09
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
Total	67.5	9,745	.08	1.23	168.9	32.92
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	30.6	13,000	.74	7.55	155.6	40.46
Total	205.8	13,259	.70	7.20	167.8	44.50
1993						
January - March	75.0	12,993	.73	6.75	154.9	40.26
Total	75.0	12,993	.73	6.75	154.9	40.26

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: Baltimore Gas and Electric, Brandon Shores						
1984						
Kentucky	297.0	13,047	0.71	8.04	203.8	53.17
Virginia	15.0	12,405	.72	9.29	190.6	47.28
West Virginia	768.0	12,667	.69	9.76	197.7	50.08
Total	1,080.0	12,768	.70	9.28	199.3	50.89
1985						
Kentucky	273.0	13,020	.71	8.56	185.6	48.32
West Virginia	750.0	12,743	.71	9.87	190.0	48.42
Total	1,023.0	12,817	.71	9.52	188.8	48.39
1986						
Kentucky	338.0	13,036	.70	8.01	180.7	47.11
West Virginia	1,157.0	12,635	.72	10.23	172.6	43.61
Total	1,495.0	12,726	.72	9.73	174.5	44.40
1987						
Kentucky	316.0	13,047	.73	8.47	167.3	43.66
West Virginia	1,039.0	12,512	.73	11.06	164.3	41.11
Total	1,355.0	12,637	.73	10.46	165.0	41.71
1988						
Kentucky	320.0	13,063	.78	8.56	161.8	42.28
West Virginia	1,165.0	12,616	.71	10.64	158.6	40.01
Total	1,485.0	12,712	.72	10.19	159.3	40.50
1989						
Kentucky	608.0	12,888	.71	8.10	158.5	40.86
West Virginia	1,047.0	12,819	.73	8.95	154.6	39.63
Colombia	132.0	12,361	.57	5.30	193.3	47.79
Total	1,787.0	12,808	.71	8.39	158.7	40.65
1990						
Kentucky	406.0	12,942	.73	7.88	159.6	41.30
Virginia	7.0	13,175	.56	8.70	168.4	44.37
West Virginia	1,449.0	12,681	.69	9.87	155.3	39.40
Total	1,862.0	12,740	.70	9.43	156.3	39.40
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
Year to Date						
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
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

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						
1984						
West Virginia	424.0	13,078	0.87	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
Year to Date						
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
Company and Plant: Central Power and Light (CSW), Coletto Creek						
1980						
Colorado	982.7	10,555	0.36	6.52	207.9	43.88
Total	982.7	10,555	.36	6.52	207.9	43.88
1981						
Colorado	1,775.8	10,584	.32	6.03	225.9	47.82
Total	1,775.8	10,584	.32	6.03	225.9	47.82
1982						
Colorado	2,035.9	10,680	.34	5.53	246.7	52.69
Total	2,035.9	10,680	.34	5.53	246.7	52.69
1983						
Colorado	1,952.3	10,710	.35	5.39	245.6	52.61
Total	1,952.3	10,710	.35	5.39	245.6	52.61
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

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Central Power and Light (CSW), Coletto Creek						
1988						
Colorado	1,794.8	10,827	0.37	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
Year to Date						
Colorado	406.0	10,590	.40	6.08	212.1	44.93
Total	406.0	10,590	.40	6.08	212.1	44.93
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	64.28
1984						
Illinois	31.4	12,219	1.11	10.06	256.5	62.68
Kentucky	2,342.2	12,328	.98	10.13	248.8	61.34
Virginia	601.6	12,547	.74	9.73	251.0	62.99
West Virginia	1,069.1	12,572	.71	9.76	250.9	63.09
Colombia	17.7	12,588	.71	9.50	248.0	62.44
Total	4,062.1	12,425	.87	9.97	249.7	62.06
1985						
Kentucky	2,948.9	12,572	.87	9.63	220.3	55.40
Virginia	757.3	12,656	.68	9.09	244.6	61.91
West Virginia	695.4	12,690	.68	9.04	242.9	61.65
Colombia	361.7	12,483	.64	8.94	223.8	55.88
Total	4,763.4	12,596	.79	9.41	227.8	57.39
1986						
Alabama	27.5	12,083	.70	10.65	176.1	42.55
Kentucky	3,727.0	12,704	.89	8.79	185.8	47.20
Virginia	708.6	12,540	.71	9.23	246.7	61.88

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						
1986						
West Virginia	741.8	12,651	0.72	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	25.1	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	1.60	184.4	46.81
1989						
Kentucky	4,059.1	12,670	.88	8.24	162.1	41.09
Virginia	821.2	12,480	.72	8.99	233.7	58.33
West Virginia	783.6	12,569	.69	10.62	174.4	43.84
Total	5,663.8	12,628	.83	8.68	174.1	43.97
1990						
Kentucky	3,910.5	12,770	.86	7.94	162.8	41.57
Virginia	878.9	12,389	.71	9.21	245.2	60.75
West Virginia	752.5	12,582	.66	9.85	174.9	44.00
Total	5,541.9	12,684	.81	8.40	177.2	44.94
1991						
Kentucky	3,949.2	12,694	.90	8.42	168.8	42.84
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
Year to Date						
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
Company and Plant: Florida Power Corp, IMT Transfer						
1992						
Kentucky	1,183.1	12,423	0.86	8.98	170.0	42.23
West Virginia	195.7	12,633	.80	9.90	167.1	42.23
Total	1,378.8	12,452	.85	9.11	169.6	42.23
1993						
January - March						
Kentucky	128.0	12,505	.88	8.79	164.5	41.15
West Virginia	43.4	12,477	.66	8.34	170.5	42.56
Total	171.5	12,498	.82	8.68	166.1	41.51
Year to Date						
Kentucky	128.0	12,505	.88	8.79	164.5	41.15
West Virginia	43.4	12,477	.66	8.34	170.5	42.56
Total	171.5	12,498	.82	8.68	166.1	41.51

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						
1992						
Kentucky	316.2	12,338	0.93	7.89	140.8	34.74
Total	316.2	12,338	.93	7.89	140.8	34.74
1993						
January - March						
Kentucky	26.7	12,392	.94	9.10	125.5	31.11
Total	26.7	12,392	.94	9.10	125.5	31.11
Year to Date						
Kentucky	26.7	12,392	.94	9.10	125.5	31.11
Total	26.7	12,392	.94	9.10	125.5	31.11
Company and Plant: Gulf Power, Smith						
1980						
Illinois	207.0	11,809	2.64	9.99	179.0	42.26
South Africa	749.8	11,908	.67	12.96	187.8	44.72
Total	956.8	11,866	1.10	12.32	185.9	44.19
1981						
Alabama	82.1	11,929	.75	13.50	220.2	52.54
Illinois	234.0	11,832	2.71	10.04	197.6	46.76
Kentucky	35.1	12,133	2.50	8.53	185.3	40.12
South Africa	712.3	11,894	.71	13.06	211.4	50.29
Total	1,063.5	11,891	1.21	12.28	207.5	49.35
1982						
Illinois	298.4	11,673	2.76	10.31	212.0	49.50
South Africa	605.0	11,950	.66	12.71	216.2	51.68
Total	903.4	11,858	1.37	11.91	214.9	50.96
1983						
Illinois	15.4	11,729	2.62	10.48	219.3	51.44
Kentucky	3.3	12,381	2.33	8.80	195.4	48.38
South Africa	813.7	12,156	.65	11.96	224.5	54.12
Total	832.4	12,051	.70	11.92	224.3	54.05
1984						
Alabama	12.6	12,321	3.08	11.82	208.6	51.40
South Africa	616.4	11,914	.64	12.52	243.8	58.10
Total	629.0	11,922	.68	12.50	243.1	57.96
1985						
Alabama	4.2	11,811	2.76	11.49	211.0	49.84
Kentucky	33.0	11,975	3.05	10.25	175.5	42.03
South Africa	865.5	11,757	.59	12.78	254.5	59.85
Total	902.7	11,765	.69	12.68	251.4	59.16
1986						
Kentucky	13.4	12,476	3.18	10.22	182.5	45.53
South Africa	1,030.5	11,755	.53	12.45	216.9	50.98
Total	1,043.9	11,764	.57	12.42	216.4	50.91
1987						
Alabama	17.5	11,982	3.00	13.90	118.2	28.33
Illinois	336.6	12,083	2.78	9.74	220.1	53.18
Kentucky	422.0	12,490	2.96	9.68	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	188.0	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	498.5	12,005	2.71	9.04	205.3	49.29
Kentucky	100.4	12,445	3.03	9.52	128.9	32.07
Total	598.9	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

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						
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
Year to Date						
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
Company and Plant: Jacksonville Electric Authority, St Johns River						
1986						
Kentucky	204.0	11,728	3.83	12.81	142.6	33.45
Total	204.0	11,728	3.83	12.81	142.6	33.45
1987						
Kentucky	1,109.7	12,557	1.87	9.77	160.8	40.39
West Virginia	563.2	12,232	.87	12.25	160.4	39.25
Colombia	93.6	11,646	.58	7.90	137.0	31.91
Total	1,766.4	12,405	1.49	10.46	159.5	39.58
1988						
Kentucky	1,215.3	12,702	1.03	9.18	164.4	41.75
West Virginia	966.4	12,115	.84	12.63	175.6	42.54
Colombia	686.9	11,838	.70	6.72	144.4	34.19
Total	2,868.6	12,297	.89	9.76	163.5	40.21
1989						
Kentucky	1,500.3	12,590	1.54	9.76	168.8	42.51
West Virginia	607.7	12,095	.93	12.84	189.4	45.82
Colombia	803.5	11,978	.74	7.36	173.4	41.54
Venezuela	37.1	13,461	.48	4.00	141.0	37.96
Total	2,948.6	12,332	1.18	9.67	173.8	42.87
1990						
Kentucky	1,622.3	12,629	1.03	9.28	174.2	44.00
West Virginia	784.8	12,246	1.03	11.80	187.4	45.91
Colombia	1,007.7	11,938	.74	6.58	171.6	40.96
Venezuela	40.1	12,288	.77	11.50	170.7	41.95
Total	3,454.9	12,336	.94	9.09	176.4	43.52
1991						
Kentucky	1,475.3	12,802	1.10	8.96	166.4	42.59
Ohio	240.2	12,530	3.74	9.20	163.8	41.04
West Virginia	643.0	12,102	.85	11.61	200.3	48.47
Colombia	1,582.6	11,978	.73	7.04	153.1	36.68
Venezuela	42.2	12,913	.56	8.90	126.9	32.77
Total	3,983.4	12,346	1.07	8.64	166.0	41.00
1992						
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
Year to Date						
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

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						
1980						
Colorado	754.6	11,530	.56	9.55	238.7	55.05
Utah	405.1	11,987	.52	7.77	250.0	59.93
Total	1,159.7	11,690	.54	8.93	242.7	56.75
1981						
Colorado	755.6	11,579	.59	9.97	260.7	60.37
Utah	584.3	12,062	.55	7.62	278.6	67.21
Total	1,339.9	11,789	.57	8.95	268.7	63.36
1982						
Alabama	.1	11,531	1.00	13.90	100.7	23.22
Colorado	804.5	11,573	.61	9.40	286.5	66.32
Utah	815.0	12,076	.53	7.30	305.6	73.80
Total	1,619.6	11,826	.57	8.34	296.3	70.08
1983						
Colorado	875.6	11,648	.61	8.82	297.5	69.31
Utah	684.7	12,093	.54	7.18	315.1	76.21
Total	1,560.3	11,844	.58	8.10	305.4	72.34
1984						
Colorado	1,037.1	11,668	.63	8.67	305.7	71.33
Utah	608.2	12,103	.53	7.79	319.8	77.41
Total	1,645.3	11,829	.59	8.34	311.0	73.58
1985						
Colorado	1,182.0	11,725	.54	8.07	319.8	74.99
Utah	424.7	12,237	.53	8.03	329.6	80.67
Total	1,606.7	11,860	.54	8.06	322.5	76.49
1986						
Colorado	1,047.8	11,700	.54	7.85	322.0	75.34
Utah	226.4	12,126	.52	8.47	330.7	80.21
West Virginia	104.7	13,380	.72	5.95	195.3	52.25
Total	1,378.9	11,898	.55	7.81	312.6	74.39
1987						
Kentucky	1,130.2	13,002	.69	7.23	200.6	52.16
Virginia	138.9	13,400	.69	6.87	193.9	51.96
West Virginia	708.3	13,072	.67	7.72	213.7	55.86
Colombia	65.9	12,206	.49	4.27	173.5	42.35
Total	2,043.3	13,028	.68	7.28	203.8	53.11
1988						
Kentucky	1,911.1	13,007	.70	6.96	193.9	50.45
Virginia	64.2	13,458	.71	6.54	166.7	44.86
West Virginia	330.6	12,702	.68	9.29	159.2	40.43
Total	2,305.9	12,976	.70	7.28	188.3	48.86
1989						
Kentucky	1,105.2	13,031	.71	6.72	179.5	46.78
Total	1,105.2	13,031	.71	6.72	179.5	46.78
1990						
Kentucky	1,221.9	12,996	.72	6.95	166.1	43.17
Total	1,221.9	12,996	.72	6.95	166.1	43.17
1991						
Kentucky	1,306.9	12,952	.72	7.41	171.3	44.38
Montana	105.5	9,344	.30	4.10	145.2	27.14
Total	1,412.3	12,682	.69	7.16	169.9	43.09
1992						
Kentucky	810.6	12,988	.73	7.22	170.0	44.15
Montana	82.2	9,383	.30	4.15	136.0	25.51
Wyoming	70.9	8,760	.34	4.92	153.0	26.81
Total	963.7	12,369	.66	6.79	166.9	41.29
1993						
January - March						
Kentucky	139.1	12,987	.73	7.37	175.7	45.64
Montana	36.0	9,444	.37	4.40	162.2	30.64
Indonesia	67.5	9,745	.08	1.23	168.9	32.92
Total	242.6	11,559	.49	5.22	172.5	39.87
Year to Date						
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

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						
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
1990						
Kentucky	12.5	12,600	.94	7.07	172.9	43.57
Maryland	40.1	13,684	1.02	6.61	185.2	50.69
Pennsylvania	247.9	12,996	1.43	9.46	166.1	43.18
Virginia	898.8	13,018	1.26	8.37	173.9	45.28
West Virginia	1,121.3	13,053	1.25	8.41	166.2	43.39
Colombia	30.1	12,837	.76	8.70	177.3	45.52
Venezuela	69.8	12,773	.61	7.39	181.0	46.23
Total	2,420.5	13,032	1.24	8.44	170.0	44.30

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (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						
1991						
Kentucky	0.5	12,970	0.75	8.49	174.6	45.29
Pennsylvania	33.6	13,164	1.32	9.03	166.9	43.94
Virginia	742.1	13,260	1.06	7.23	173.1	45.91
West Virginia	1,852.8	13,083	1.20	8.50	170.7	44.66
Venezuela	83.7	13,390	.77	7.55	167.3	44.81
Total	2,712.7	13,142	1.15	8.13	171.2	45.00
1992						
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
Year to Date						
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
Company and Plant: New England Power (NEES), Salem Harbor						
1982						
Pennsylvania	372.9	13,247	1.38	6.13	252.9	67.01
Virginia	133.1	13,167	1.28	7.37	262.2	69.04
West Virginia	36.1	13,340	1.39	8.26	259.6	69.26
Total	542.1	13,234	1.36	6.58	255.6	67.66
1983						
Pennsylvania	606.5	13,308	1.32	5.87	246.9	65.70
Virginia	37.1	13,740	1.41	5.60	205.0	56.33
Total	643.6	13,333	1.33	5.85	244.4	65.16
1984						
Pennsylvania	507.2	13,341	1.33	6.11	220.7	58.89
Virginia	248.1	13,345	1.06	6.89	217.8	58.14
Total	755.3	13,343	1.24	6.37	219.8	58.64
1985						
Kentucky	.1	13,443	.86	8.10	183.2	49.26
Pennsylvania	388.6	13,357	1.32	6.34	197.6	52.79
Virginia	391.7	13,279	1.15	7.18	206.0	54.70
West Virginia	111.4	13,445	1.07	7.58	187.7	50.46
Total	891.8	13,334	1.22	6.87	200.0	53.34
1986						
Pennsylvania	235.6	13,362	1.27	6.42	179.0	47.85
Virginia	242.0	13,210	1.22	6.99	191.2	50.51
West Virginia	433.8	13,144	1.14	8.60	163.6	43.01
Total	911.4	13,218	1.20	7.61	175.0	46.25
1987						
Pennsylvania	137.1	13,265	1.31	6.03	159.7	42.36
Virginia	279.9	13,073	1.16	7.79	166.4	43.52
West Virginia	237.1	13,176	1.18	9.07	156.9	41.34
Total	654.1	13,151	1.20	7.89	161.5	42.49
1988						
Maryland	5.2	13,324	1.12	7.76	152.8	40.71
Pennsylvania	14.2	13,291	1.64	8.08	156.1	41.50
Virginia	383.8	13,063	1.15	8.22	165.3	43.20
West Virginia	447.8	13,024	1.22	9.19	159.2	41.48
Total	851.0	13,048	1.19	8.72	161.9	42.25
1989						
Kentucky	1.7	12,825	.89	9.12	137.9	35.37
Pennsylvania	15.8	13,073	1.51	9.29	162.8	42.56
Virginia	467.9	12,919	1.25	7.98	158.8	41.02
West Virginia	334.2	12,931	1.09	8.43	159.7	41.29
Colombia	35.0	12,201	.58	4.61	196.4	47.93
Total	854.6	12,897	1.16	8.05	160.6	41.43

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						
1990						
Kentucky	36.5	12,598	0.94	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
Colombia	34.8	12,893	.58	7.02	145.3	37.47
Total	870.9	13,140	1.41	9.04	166.3	43.70
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
Year to Date						
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
Company and Plant: Ohio Edison, Burger Plant						
1980						
Ohio	945.5	12,298	4.02	11.68	176.9	43.52
West Virginia	45.6	13,067	2.91	8.46	125.1	32.70
Total	991.1	12,334	3.97	11.53	174.4	43.02
1981						
Ohio	824.0	12,484	4.04	10.33	187.5	46.81
Total	824.0	12,484	4.04	10.33	187.5	46.81
1982						
Ohio	1,048.1	12,449	3.91	10.34	190.7	47.48
Total	1,048.1	12,449	3.91	10.34	190.7	47.48
1983						
Kentucky	1.2	12,000	4.20	10.00	141.7	34.01
Ohio	830.3	12,245	3.39	10.96	142.6	34.93
Total	831.5	12,245	3.39	10.96	142.6	34.93
1984						
Ohio	1,148.8	12,066	3.30	10.96	136.2	32.86
West Virginia	34.7	11,914	3.81	12.17	116.7	27.80
Total	1,183.5	12,062	3.32	11.00	135.6	32.72
1985						
Ohio	1,146.8	11,975	3.03	11.88	133.8	32.05
Total	1,146.8	11,975	3.03	11.88	133.8	32.05
1986						
Ohio	1,185.3	12,108	2.88	11.52	131.9	31.93
Total	1,185.3	12,108	2.88	11.52	131.9	31.93
1987						
Kentucky	7.6	12,202	.83	12.10	121.4	29.63
Ohio	1,259.5	12,084	2.88	11.49	121.4	29.34
Total	1,267.1	12,085	2.87	11.50	121.4	29.34
1988						
Ohio	1,042.2	11,894	2.92	11.54	116.0	27.61
Total	1,042.2	11,894	2.92	11.54	116.0	27.61
1989						
Ohio	935.3	11,810	3.06	11.31	107.0	25.28
Pennsylvania	239.8	12,053	2.46	12.07	142.8	34.42
West Virginia	60.6	11,905	3.10	11.54	105.3	25.08
Total	1,235.7	11,862	2.95	11.47	114.0	27.05
1990						
Kentucky	3.2	11,718	1.11	11.40	129.2	30.28
Ohio	991.0	11,829	3.09	12.00	110.8	26.22
Pennsylvania	228.5	11,993	2.62	11.94	149.6	35.89
West Virginia	82.7	11,652	3.07	12.73	108.9	25.39
Total	1,305.4	11,846	3.00	12.03	117.6	27.87

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						
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
Year to Date						
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
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
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

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						
1990						
Pennsylvania	273.5	13,308	1.36	6.37	178.7	47.55
West Virginia	697.5	13,386	2.43	7.19	172.9	46.29
Total	971.0	13,364	2.13	6.96	174.5	46.65
1991						
Pennsylvania	740.1	13,249	1.51	6.57	176.2	46.68
West Virginia	219.6	13,411	2.41	6.82	165.9	44.48
Total	959.7	13,286	1.71	6.63	173.8	46.18
1992						
Pennsylvania	671.5	13,266	1.57	6.30	171.5	45.50
West Virginia	331.8	13,416	2.27	6.94	161.4	43.30
Total	1,003.3	13,316	1.80	6.51	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
Year to Date						
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
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	49.81
1991						
West Virginia	117.5	13,384	.69	6.24	180.6	48.34
Venezuela	207.1	12,989	.52	5.65	173.6	45.10
Total	324.6	13,132	.58	5.86	176.2	46.28
1992						
Pennsylvania	8.3	13,080	1.46	6.25	173.0	45.26
West Virginia	88.4	13,274	.74	6.44	176.8	46.93
Colombia	48.4	12,428	.61	6.31	157.2	39.08
Venezuela	34.3	12,881	.58	6.76	168.0	43.29
Total	179.4	12,962	.71	6.46	169.9	44.04

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						
1993						
January - March						
West Virginia	28.9	13,263	0.74	6.99	170.8	45.32
Venezuela	26.5	12,918	.66	4.47	138.9	35.89
Total	55.4	13,098	.70	5.79	155.8	40.81
Year to Date						
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	13,098	.70	5.79	155.8	40.81
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	502.8	13,400	1.20	6.99	236.6	63.40
West Virginia	410.5	13,365	1.15	7.23	213.6	57.10
Total	1,065.8	13,362	1.20	7.04	225.4	60.22
1982						
Kentucky	.1	13,018	1.06	7.00	242.3	63.09
Pennsylvania	113.0	13,245	1.25	6.39	220.3	58.36
Virginia	534.4	13,481	.90	6.89	243.0	65.51
West Virginia	493.7	13,356	1.18	7.06	224.0	59.84
Total	1,141.2	13,403	1.06	6.91	232.6	62.35
1983						
Virginia	673.0	13,504	.97	6.51	216.7	58.52
West Virginia	549.1	13,427	1.11	6.87	208.4	55.97
Total	1,222.1	13,469	1.03	6.67	213.0	57.37
1984						
Virginia	735.2	13,430	.98	6.76	212.9	57.17
West Virginia	552.1	13,503	1.12	6.72	198.1	53.51
Total	1,287.3	13,461	1.04	6.75	206.5	55.60
1985						
Kentucky	.5	13,436	1.45	8.50	176.4	47.40
Pennsylvania	7.6	13,428	1.22	6.70	187.6	50.38
Virginia	703.0	13,507	1.06	6.37	204.3	55.19
West Virginia	389.3	13,469	1.09	6.97	188.0	50.65
Total	1,100.4	13,493	1.07	6.59	198.4	53.55
1986						
Virginia	530.1	13,545	1.04	6.03	198.9	53.87
West Virginia	258.0	13,333	1.05	7.31	185.8	49.56
Total	788.1	13,476	1.04	6.45	194.6	52.46
1987						
Virginia	647.2	13,594	1.01	5.96	194.2	52.81
West Virginia	146.9	13,268	1.07	8.69	184.8	49.04
Total	794.1	13,534	1.03	6.46	192.5	52.11
1988						
Virginia	883.0	13,719	.83	5.87	172.2	47.26
West Virginia	1.4	13,222	.70	9.26	162.2	42.90
Total	884.4	13,718	.83	5.87	172.2	47.25
1989						
Kentucky	.3	12,997	.74	7.40	190.9	49.62
Virginia	1,121.6	13,878	.85	5.30	172.7	47.94
West Virginia	14.5	13,421	.87	7.32	173.3	46.51
Colombia	12.4	13,116	.57	4.20	175.8	46.12
Venezuela	28.6	13,149	.51	4.57	188.2	49.49
Total	1,177.4	13,846	.84	5.29	173.1	47.94
1990						
Kentucky	.1	13,045	.84	7.10	189.2	49.36
Virginia	962.9	14,108	.80	4.71	177.8	50.16
West Virginia	.4	13,079	.76	7.07	178.2	46.62
Total	963.4	14,108	.80	4.71	177.8	50.16

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						
1991						
Kentucky	0.2	13,063	0.75	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
Year to Date						
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
Company and Plant: Savannah Electric and Power, McIntosh						
1982						
Kentucky	71.8	12,511	1.01	9.77	191.0	47.80
Virginia	264.3	12,789	.92	10.41	189.3	48.43
Total	336.1	12,730	.94	10.28	189.7	48.30
1983						
Kentucky	2.6	12,867	1.20	10.00	170.7	43.93
Tennessee	.9	12,828	.91	6.93	165.0	42.33
Virginia	371.4	13,079	.90	9.20	182.5	47.75
Total	374.9	13,077	.90	9.20	182.4	47.71
1984						
Kentucky	61.5	12,831	.92	9.36	188.6	48.39
Virginia	370.3	12,968	.90	9.25	189.5	49.15
Total	431.8	12,948	.90	9.26	189.4	49.04
1985						
Kentucky	133.8	13,000	1.00	6.26	180.3	46.89
Virginia	182.8	12,951	.85	9.09	176.5	45.70
Total	316.6	12,972	.92	7.89	178.1	46.20
1986						
Kentucky	166.0	12,878	.94	7.53	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	9.98	152.5	37.64
Total	92.5	12,341	1.29	9.98	152.5	37.64
1993						
January - March						
Virginia	27.9	12,300	.87	11.63	165.4	40.70
Total	27.9	12,300	.87	11.63	165.4	40.70

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						
1993						
Year to Date						
Virginia	27.9	12,300	0.87	11.63	165.4	40.70
Total	27.9	12,300	.87	11.63	165.4	40.70
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	44.85
Total	682.3	12,167	1.01	11.66	189.2	46.05
1982						
Kentucky	110.5	12,311	.93	10.53	188.1	46.30
Tennessee	25.0	13,116	1.03	7.72	205.7	53.97
Virginia	291.3	12,780	.92	9.57	193.7	49.50
Total	426.8	12,678	.93	9.71	193.0	48.94
1983						
Tennessee	5.9	12,886	1.32	7.70	172.4	44.43
Virginia	413.4	13,145	1.00	8.35	178.5	46.93
Total	419.2	13,141	1.00	8.34	178.4	46.90
1984						
Kentucky	67.5	12,565	.88	8.99	192.9	48.48
Tennessee	30.1	12,564	1.25	9.65	189.8	47.70
Virginia	439.3	12,982	.97	8.65	186.9	48.53
Total	536.9	12,906	.97	8.75	187.8	48.48
1985						
Kentucky	39.2	12,800	.91	8.54	174.9	44.78
Tennessee	79.7	12,454	1.32	10.12	179.8	44.79
Virginia	324.6	13,009	1.04	8.85	178.5	46.45
West Virginia	10.8	13,684	.80	5.65	176.7	48.37
Total	454.3	12,910	1.07	8.97	178.4	46.06
1986						
Tennessee	.3	13,043	.91	7.70	137.7	35.92
Virginia	435.3	12,983	.82	9.11	168.2	43.67
West Virginia	8.0	12,439	.99	9.45	167.8	41.75
Total	443.5	12,974	.83	9.11	168.1	43.63
1987						
Virginia	360.3	13,132	.93	9.16	164.3	43.16
Total	360.3	13,132	.93	9.16	164.3	43.16
1988						
Kentucky	37.7	12,965	.84	7.70	168.7	43.74
Virginia	371.0	13,008	.90	8.98	168.6	43.86
Total	408.7	13,004	.89	8.87	168.6	43.85
1989						
Kentucky	160.9	12,714	.94	9.20	172.4	43.84
Tennessee	7.7	12,834	1.08	7.46	183.2	47.02
Virginia	333.2	12,920	1.04	8.70	173.1	44.72
Colombia	7.0	13,189	.71	8.40	168.5	44.45
Total	508.8	12,858	1.00	8.84	173.0	44.48
1990						
Virginia	417.8	12,946	1.06	8.66	166.9	43.21
Total	417.8	12,946	1.06	8.66	166.9	43.21
1991						
Kentucky	10.3	12,308	.97	10.84	167.7	41.27
Virginia	178.6	12,665	.87	9.55	165.2	41.85
Total	189.0	12,646	.87	9.63	165.3	41.82
1992						
Kentucky	3.0	11,947	1.36	13.60	132.2	31.59
Virginia	60.5	12,392	.98	11.96	148.1	36.71
Total	63.5	12,371	1.00	12.04	147.4	36.46

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Savannah Electric and Power, Port Wentworth						
1993						
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
Year to Date						
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
Company and Plant: Takoma Dept. of Public Utilities, Steam No.2						
1991						
Washington	0.1	12,846	0.70	14.50	170.0	43.68
Canada	26.9	9,994	.46	12.76	209.2	41.82
Total	27.0	10,004	.46	12.76	209.0	41.82
1992						
Montana	4.0	9,492	.40	4.25	169.0	32.08
Washington	2.3	12,366	.72	14.03	154.5	38.21
Wyoming	2.0	8,846	.22	4.67	181.0	32.02
Canada	15.3	9,993	.42	12.95	214.7	42.90
Total	23.7	10,043	.43	10.87	197.5	39.67
1993						
January - March						
Montana	2.0	9,450	.41	4.10	183.0	34.59
Washington	.7	10,800	.70	15.00	166.0	35.86
Canada	11.7	10,159	.49	13.00	179.5	36.46
Total	14.4	10,093	.49	11.86	179.2	36.17
Year to Date						
Montana	2.0	9,450	.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
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	11.18	162.7	37.53
Missouri	26.0	12,390	.65	8.56	191.7	47.50
Oklahoma	234.5	12,445	.64	8.19	202.7	50.46
Total	2,849.6	11,591	2.74	10.96	166.0	38.47
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

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						
1984						
Pennsylvania	1.6	13,000	1.50	8.00	119.2	31.00
Virginia	11.1	13,326	.56	4.38	174.1	46.3 ^a
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
Oklahoma	249.4	12,859	.58	6.28	190.9	49.09
Virginia	85.5	13,242	.69	6.36	199.7	52.89
West Virginia	74.9	13,097	2.51	9.05	182.3	47.75
Total	5,180.9	12,032	2.28	8.23	185.9	44.75
1987						
Illinois	1,151.2	11,483	2.82	9.25	165.2	37.94
Indiana	258.8	11,071	2.89	9.40	119.0	26.35
Kentucky	4,416.1	12,412	2.03	7.73	183.0	45.44
Oklahoma	416.7	12,397	.76	8.19	194.2	48.15
West Virginia	232.8	13,069	2.62	8.45	152.3	39.80
Total	6,475.7	12,216	2.15	8.13	177.3	43.31
1988						
Illinois	1,172.0	11,090	2.84	9.07	173.9	38.57
Indiana	91.1	11,043	2.79	9.32	118.6	26.19
Kentucky	3,984.0	12,392	2.13	7.72	170.0	42.12
Oklahoma	53.3	12,582	.69	7.16	202.0	50.84
West Virginia	705.1	13,132	2.52	8.14	154.5	40.57
Total	6,005.5	12,206	2.32	8.05	168.3	41.08
1989						
Illinois	939.0	11,058	2.85	9.08	179.2	39.64
Indiana	271.9	11,258	3.31	9.32	98.2	22.11
Kentucky	4,356.1	12,579	2.02	7.42	167.2	42.07
Tennessee	89.6	12,733	1.02	6.79	216.1	55.03
West Virginia	563.4	13,186	2.13	7.80	184.1	48.55
Total	6,220.1	12,349	2.19	7.78	168.4	41.60
1990						
Illinois	1,108.9	11,029	2.90	8.86	187.0	41.24
Indiana	431.1	11,226	3.21	9.12	107.8	24.20
Kentucky	3,901.7	12,490	2.14	7.63	177.2	44.26
Tennessee	126.3	12,780	1.11	6.60	215.2	55.00
Virginia	90.0	14,040	.83	4.57	161.4	45.32
West Virginia	434.5	13,239	2.08	7.40	194.7	51.54
Total	6,092.6	12,217	2.31	7.88	176.2	43.05
1991						
Illinois	1,112.9	11,046	2.95	9.16	193.5	42.74
Indiana	163.5	11,067	2.91	8.63	110.7	24.51
Kentucky	3,888.7	12,461	2.20	7.76	182.4	45.46
Pennsylvania	2.8	13,004	1.46	6.90	127.5	33.16
Tennessee	158.3	12,795	1.18	6.54	218.2	55.84
West Virginia	450.0	13,261	2.40	7.48	206.5	54.77
Indonesia	24.3	9,815	.07	1.20	227.3	44.62
Total	5,800.5	12,211	2.34	7.97	185.7	45.34
Company and Plant: Tampa Electric, Davant Transfer						
1992						
Colorado	180.7	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	3,358.6	12,415	2.30	7.91	178.9	44.41
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	451.9	13,137	2.38	7.64	207.1	54.41
Wyoming	12.3	8,887	.20	4.70	142.3	25.29
Total	5,528.0	12,255	2.30	8.08	182.5	44.73

See footnotes at the end of Table A7.

**Table A7. Cost and Quality of All Coal Received at Electric Utility Plants
by Origin, 1980-1993 (Continued)**

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality ¹			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Tampa Electric, Davant Transfer						
1993						
January - March						
Illinois	400.2	11,119	2.84	8.96	175.1	38.93
Kentucky	572.9	12,541	2.19	7.62	195.1	48.92
Tennessee	71.4	12,858	1.12	6.06	208.6	53.64
Utah	124.2	11,478	.36	8.20	157.1	36.07
West Virginia	283.4	13,281	2.12	7.34	160.5	42.64
Total	1,452.1	12,218	2.14	7.91	180.4	44.07
Year to Date						
Illinois	400.2	11,119	2.84	8.96	175.1	38.93
Kentucky	572.9	12,541	2.19	7.62	195.1	48.92
Tennessee	71.4	12,858	1.12	6.06	208.6	53.64
Utah	124.2	11,478	.36	8.20	157.1	36.07
West Virginia	283.4	13,281	2.12	7.34	160.5	42.64
Total	1,452.1	12,218	2.14	7.91	180.4	44.07
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	12,013	1.05	6.18	227.9	59.32
Total	450.9	13,013	1.05	6.18	227.9	59.32
1987						
Kentucky	471.7	12,952	1.09	6.18	232.3	60.17
Total	471.7	12,952	1.09	6.18	232.3	60.17
1988						
Kentucky	743.4	12,895	1.11	6.00	236.6	61.03
Total	743.4	12,895	1.11	6.00	236.6	61.03
1989						
Kentucky	453.6	12,769	1.12	6.45	232.1	59.27
Total	453.6	12,769	1.12	6.45	232.1	59.27
1990						
Kentucky	557.1	12,804	1.13	6.61	232.9	59.64
Total	557.1	12,804	1.13	6.61	232.9	59.64
1991						
Kentucky	603.7	12,720	1.20	6.65	233.0	59.28
Total	603.7	12,720	1.20	6.65	233.0	59.28
1992						
Kentucky	727.8	12,713	1.21	6.46	233.8	59.45
Total	727.8	12,713	1.21	6.46	233.8	59.45
1993						
January - March						
Kentucky	184.2	12,815	1.21	5.91	227.7	58.36
Total	184.2	12,815	1.21	5.91	227.7	58.36

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						
1993						
Year to Date						
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
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
Colorado	29.0	11,795	.73	7.70	175.4	41.38
Total	2,169.0	12,838	.99	8.41	176.8	45.39
1986						
Kentucky	1,065.0	12,937	1.08	7.89	166.6	43.11
Virginia	367.0	13,179	1.09	7.80	182.3	48.05
West Virginia	949.0	12,802	.79	9.17	155.8	39.90
Total	2,381.0	12,921	.97	8.39	164.8	42.59
1987						
Kentucky	752.0	12,723	1.02	9.08	153.5	39.06
Virginia	783.0	12,725	1.06	9.31	152.9	38.92
West Virginia	1,210.0	12,790	.80	9.74	150.7	38.55
Total	2,745.0	12,753	.93	9.44	152.1	38.80
1988						
Kentucky	834.0	12,711	1.09	8.63	148.0	37.62
Virginia	322.0	12,952	1.05	8.31	154.5	40.01
West Virginia	1,130.0	12,738	.74	9.40	151.9	38.69
Total	2,286.0	12,758	.91	8.97	150.8	38.49
1989						
Kentucky	1,699.8	12,613	1.01	8.59	152.8	38.55
Virginia	120.4	12,691	1.12	9.23	166.1	42.17
West Virginia	1,040.3	12,609	.80	9.30	147.3	37.14
Total	2,860.5	12,615	.94	8.87	151.4	38.19
1990						
Kentucky	1,726.6	12,656	1.08	8.57	152.7	38.66
Virginia	267.3	13,283	.93	7.20	157.1	41.72
West Virginia	811.0	12,669	.97	9.71	149.9	37.99
Total	2,805.0	12,719	1.04	8.77	152.4	38.76
1991						
Kentucky	1,819.5	12,722	1.14	8.69	149.0	37.92
Virginia	289.7	13,089	1.03	8.91	157.3	41.17
West Virginia	701.1	12,846	1.11	9.11	150.8	38.73
Total	2,810.2	12,791	1.12	8.82	150.3	38.46

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						
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
Year to Date						
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

¹ Data reported on quality of coal as received.

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

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

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

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

Appendix B

Metric Tables

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

Appendix B

Metric Tables

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

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

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

**Table B1. U.S. Coal Production, Imports, Consumption, Exports, and Stocks,
1985-1993**
(Thousand Metric Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks ¹	Consumption	Exports	Consumer Stocks ¹
1985 January - March	193,446	299	32,088	186,412	16,823	162,798
April - June	206,983	453	31,930	175,566	21,961	170,562
July - September	202,145	565	29,604	194,081	23,434	158,841
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	158,698
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	146,837
October - December	232,106	704	30,317	205,004	23,760	152,598
Total	933,562	2,449		812,366	95,984	
1991 January - March	231,102	851	38,249	198,863	20,247	155,568
April - June	215,008	662	37,243	189,381	23,781	157,544
July - September	228,101	893	30,507	214,180	28,302	148,651
October - December	229,331	669	29,911	202,812	26,526	152,145
Total	903,542	3,075		805,236	98,855	
1992 January - March	232,850	616	36,154	200,062	22,436	152,980
April - June	220,832	947	36,753	190,556	24,503	157,185
July - September	226,503	800	31,931	215,599	24,023	146,854
October - December	227,227	1,087	30,838	203,237	22,039	148,498
Total	907,412	3,450		809,454	93,001	
1993 January - March	219,956	1,101	34,762	208,376	17,118	138,490
Total	219,956	1,101		208,376	17,118	

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	17,415	1,672	200,062
April - June	166,474	7,345	15,694	1,042	190,556
July - September	190,889	7,439	16,150	1,121	215,599
October - December	176,704	7,012	17,775	1,746	203,237
Total	707,477	29,362	67,033	5,582	809,454
1993 January - March	182,130	7,060	17,324	1,862	208,376
Total	182,130	7,060	17,324	1,862	208,376

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	25,892	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	5,728	157,185	36,753	193,938
September 30	138,513	2,009	6,331	146,854	31,931	178,785
December 31	139,824	2,356	6,317	148,498	30,838	179,336
1993 March 31	130,614	2,549	5,327	138,490	34,762	173,252

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	-
Price	\$53.74	\$51.04	\$47.62	\$46.98	\$46.82	\$46.86	\$47.37	\$45.57	-
Imports									
Quantity	453	522	438	533	623	612	662	947	-
Price	\$38.85	\$39.84	\$34.93	\$37.19	\$37.69	\$37.11	\$38.14	\$36.33	-
July - September									
Exports									
Quantity	23,434	21,489	19,081	25,121	21,764	26,759	28,302	24,023	-
Price	\$52.69	\$50.06	\$46.31	\$46.12	\$46.97	\$46.54	\$45.76	\$44.86	-
Imports									
Quantity	565	487	431	397	839	466	893	800	-
Price	\$40.51	\$39.57	\$35.21	\$29.51	\$38.49	\$35.33	\$34.67	\$37.95	-
October - December									
Exports									
Quantity	21,861	18,521	19,854	23,923	24,448	23,760	26,526	22,039	-
Price	\$52.11	\$50.36	\$45.85	\$46.72	\$47.06	\$47.05	\$45.36	\$45.27	-
Imports									
Quantity	453	557	416	514	642	704	669	1,087	-
Price	\$38.38	\$41.27	\$33.46	\$32.49	\$36.86	\$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	17,118
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	1,101
Price	\$39.70	\$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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	333,455	3,899,234	1,122,201	333,455	1,122,201	-70.3
Canada ¹	234,602	3,851,586	1,064,645	234,602	1,064,645	-78.0
Dominican Republic	148	24,054	15,104	148	15,104	-99.0
Jamaica	-	12,427	-	-	-	-
Mexico	98,590	9,198	42,193	98,590	42,193	133.7
Other ²	115	1,969	259	115	259	-55.6
South America Total	1,692,590	1,415,918	1,434,705	1,692,590	1,434,705	18.0
Argentina	142,778	29,308	87,333	142,778	87,333	63.5
Brazil	1,544,001	1,385,068	1,345,952	1,544,001	1,345,952	14.7
Other ²	5,811	1,542	1,420	5,811	1,420	309.2
Europe Total	10,040,987	11,233,974	14,601,125	10,040,987	14,601,125	-31.2
Albania	-	-	20,216	-	20,216	-
Belgium & Luxembourg	817,184	1,566,981	1,731,534	817,184	1,731,534	-52.8
Bulgaria	202,014	200,714	101,391	202,014	101,391	99.2
Denmark	208,873	505,722	963,537	208,873	963,537	-78.3
Finland	66,023	-	-	66,023	-	-
France	1,601,765	1,401,118	2,559,957	1,601,765	2,559,957	-37.4
Germany, FR	291,623	83,467	288,186	291,623	288,186	1.2
Ireland	225,211	319,781	319,436	225,211	319,436	-29.5
Italy	1,614,413	1,910,325	2,576,935	1,614,413	2,576,935	-37.4
Netherlands	1,736,837	1,801,851	2,089,252	1,736,837	2,089,252	-16.9
Norway	22,700	19,657	21,999	22,700	21,999	3.2
Portugal	495,131	172,804	300,914	495,131	300,914	64.5
Romania	280,843	166,182	137,160	280,843	137,160	104.8
Spain	823,037	849,823	1,309,418	823,037	1,309,418	-37.1
Sweden	151,558	445,545	148,919	151,558	148,919	1.8
Turkey	352,935	451,038	251,382	352,935	251,382	40.4
United Kingdom	1,111,988	1,185,583	1,449,449	1,111,988	1,449,449	-23.3
Yugoslavia	38,852	153,383	324,376	38,852	324,376	-88.0
Other ²	-	-	7,064	-	7,064	-
Asia Total	4,572,175	4,849,536	4,589,838	4,572,175	4,589,838	-4
China (Taiwan)	716,642	753,317	630,703	716,642	630,703	13.6
Hong Kong	-	111,414	-	-	-	-
Israel	110,539	110,767	112,422	110,539	112,422	-1.7
Japan	3,120,364	2,815,856	3,167,237	3,120,364	3,167,237	-1.5
Korea, Republic of	624,332	932,222	677,463	624,332	677,463	-7.8
Other ²	298	125,960	2,013	298	2,013	-85.2
Oceania & Australia Total	310	-	259	310	259	19.7
Africa Total	478,863	640,629	687,489	478,863	687,489	-30.3
Algeria	107,453	155,026	115,310	107,453	115,310	-6.8
Egypt	159,959	176,111	275,638	159,959	275,638	-42.0
Morocco	134,120	187,912	161,653	134,120	161,653	-17.0
South Africa, Rep of	77,331	121,580	134,888	77,331	134,888	-42.7
Total	17,118,380	22,039,291	22,435,617	17,118,380	22,435,617	-23.7

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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$43.61	\$36.09	\$35.99	\$43.61	\$35.99	21.2
Canada ¹	41.19	36.05	35.40	41.19	35.40	16.4
Dominican Republic	44.86	38.64	39.46	44.86	39.46	13.7
Mexico	49.17	43.24	49.65	49.17	49.65	-1.0
Other ²	44.87	44.40	38.09	44.87	38.09	17.8
South America Total	49.15	49.83	50.33	49.15	50.33	-2.4
Argentina	47.61	49.89	49.24	47.61	49.24	-3.3
Brazil	49.31	49.84	50.41	49.31	50.41	-2.2
Other ²	43.43	42.86	44.28	43.43	44.28	-1.9
Europe Total	47.17	47.47	46.98	47.17	46.98	.4
Belgium & Luxembourg	47.79	47.36	48.69	47.79	48.69	-1.8
Bulgaria	46.55	47.29	48.05	46.55	48.05	-3.1
Denmark	37.85	34.36	37.41	37.85	37.41	1.2
Finland	40.75	-	-	40.75	-	-
France	43.93	45.38	42.14	43.93	42.14	4.3
Germany, FR	42.24	42.00	42.22	42.24	42.22	*
Ireland	42.66	41.83	39.70	42.66	39.70	7.4
Italy	48.61	49.00	50.56	48.61	50.56	-3.9
Netherlands	49.11	47.71	47.73	49.11	47.73	2.9
Norway	-	-	46.60	-	46.60	-
Portugal	42.51	45.01	45.40	42.51	45.40	-6.4
Romania	40.92	42.23	50.17	40.92	50.17	-18.4
Spain	51.51	52.40	51.28	51.51	51.28	.4
Sweden	51.11	50.94	51.18	51.11	51.18	-1.1
Turkey	47.44	49.84	51.43	47.44	51.43	-7.7
United Kingdom	50.32	50.49	51.33	50.32	51.33	-2.0
Yugoslavia	53.25	51.60	48.55	53.25	48.55	9.7
Asia Total	45.52	46.22	48.28	45.52	48.28	-5.7
China (Taiwan)	44.19	44.17	45.17	44.19	45.17	-2.2
Hong Kong	-	41.40	-	-	-	-
Israel	38.70	41.71	44.00	38.70	44.00	-12.0
Japan	45.66	46.25	48.73	45.66	48.73	-6.3
Korea, Republic of	47.57	49.81	49.79	47.57	49.79	-4.5
Other ²	48.72	39.39	44.35	48.72	44.35	9.8
Oceania & Australia Total	37.98	-	38.08	37.98	38.08	-.2
Africa Total	46.88	47.10	48.22	46.88	48.22	-2.8
Algeria	49.61	51.30	52.61	49.61	52.61	-5.7
Egypt	51.19	50.67	50.20	51.19	50.20	2.0
Morocco	37.39	37.45	37.07	37.39	37.07	.9
South Africa, Rep of	50.62	51.50	53.75	50.62	53.75	-5.8
Total³	46.84	45.35	46.95	46.84	46.95	-.2
U.S. Total⁴	46.81	45.28	46.61	46.81	46.61	.4

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

² Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 1992.

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

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

* Rounded to zero

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

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

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

Continent and Country of Destination	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	72,349	2,648,910	901,393	72,349	901,393	-92.0
Canada ¹	51,023	2,601,282	876,533	51,023	876,533	-94.2
Dominican Republic	148	24,054	15,104	148	15,104	-99.0
Jamaica	-	12,427	-	-	-	-
Mexico	21,063	9,198	9,497	21,063	9,497	121.8
Other ²	115	1,949	259	115	259	-55.6
South America Total	154,135	61,702	1,779	154,135	1,779	(³)
Argentina	61	1,590	314	61	314	-80.6
Brazil	148,263	58,570	45	148,263	45	(³)
Other ²	5,811	1,542	1,420	5,811	1,420	309.2
Europe Total	3,783,810	4,215,426	6,363,800	3,783,810	6,363,800	-40.5
Belgium & Luxembourg	190,289	482,463	452,066	190,289	452,066	-57.9
Denmark	208,873	505,722	963,537	208,873	963,537	-78.3
France	703,470	448,223	1,421,564	703,470	1,421,564	-50.5
Germany, FR	203,616	83,467	267,293	203,616	267,293	-23.8
Ireland	225,211	319,781	319,436	225,211	319,436	-29.5
Italy	580,816	776,699	924,791	580,816	924,791	-37.2
Netherlands	632,393	891,720	918,765	632,393	918,765	-31.2
Norway	5,095	5,911	5,976	5,095	5,976	-14.7
Portugal	451,141	172,804	258,793	451,141	258,793	74.3
Romania	110,404	-	-	110,404	-	-
Spain	190,815	246,012	609,151	190,815	609,151	-68.7
Sweden	-	-	224	-	224	-
Turkey	283	-	64	283	64	342.2
United Kingdom	281,404	282,824	222,140	281,404	222,140	26.7
Asia Total	1,983,663	1,977,631	1,278,004	1,983,663	1,278,004	55.2
China (Taiwan)	634,145	653,062	533,171	634,145	533,171	18.9
Hong Kong	-	111,414	-	-	-	-
Israel	110,539	110,767	112,390	110,539	112,390	-1.6
Japan	1,079,170	832,370	488,203	1,079,170	488,203	121.0
Korea, Republic of	159,511	144,058	142,227	159,511	142,227	12.2
Other ²	298	125,960	2,013	298	2,013	-85.2
Oceania & Australia Total	310	-	259	310	259	19.7
Africa Total	134,120	188,580	161,653	134,120	161,653	-17.0
Egypt	-	668	-	-	-	-
Morocco	134,120	187,912	161,653	134,120	161,653	-17.0
Total	6,128,387	9,092,249	8,706,888	6,128,387	8,706,888	-29.6

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.

³ Changes of 500 percent or more are not shown.

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

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

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

Continent and Country of Destination	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$39.27	\$34.48	\$34.55	\$39.27	\$34.55	13.6
Canada ¹	34.83	34.41	34.42	34.83	34.42	1.2
Dominican Republic	44.86	38.64	39.46	44.86	39.46	13.7
Mexico	48.29	43.24	38.58	48.29	38.58	25.2
Other ²	44.87	44.40	38.09	44.87	38.09	17.8
South America Total	44.76	47.47	44.40	44.76	44.40	.8
Argentina	-	38.03	45.04	-	45.04	-
Brazil	44.81	47.63	-	44.81	-	-
Other ²	43.43	42.86	44.28	43.43	44.28	-1.9
Europe Total	41.21	41.38	40.68	41.21	40.68	1.3
Belgium & Luxembourg	40.84	39.48	40.66	40.84	40.66	.4
Denmark	37.85	34.36	37.41	37.85	37.41	1.2
France	35.13	35.73	37.36	35.13	37.36	-6.0
Germany, FR	38.19	42.00	41.48	38.19	41.48	-7.9
Ireland	42.66	41.83	39.70	42.66	39.70	7.4
Italy	44.02	45.99	46.11	44.02	46.11	-4.5
Netherlands	45.09	43.45	42.53	45.09	42.53	6.0
Portugal	42.79	45.01	44.53	42.79	44.53	-3.9
Romania	40.00	-	-	40.00	-	-
Spain	38.79	47.16	41.27	38.79	41.27	-6.0
Sweden	-	-	38.08	-	38.08	-
Turkey	45.02	-	45.22	45.02	45.22	-.4
United Kingdom	44.21	43.28	41.70	44.21	41.70	6.0
Asia Total	40.45	40.81	42.30	40.45	42.30	-4.4
China (Taiwan)	43.38	43.27	44.19	43.38	44.19	-1.8
Hong Kong	-	41.40	-	-	-	-
Israel	38.70	41.71	44.00	38.70	44.00	-12.0
Japan	39.22	38.88	39.64	39.22	39.64	-1.1
Korea, Republic of	38.24	38.24	42.93	38.24	42.93	-10.9
Other ²	48.72	39.39	44.35	48.72	44.35	9.8
Oceania & Australia Total	37.98	-	38.08	37.98	38.08	-.2
Africa Total	37.39	37.48	37.07	37.39	37.07	.9
Egypt	-	43.98	-	-	-	-
Morocco	37.39	37.45	37.07	37.39	37.07	.9
Total³	40.94	39.18	40.19	40.94	40.19	1.9
U.S. Total⁴	40.67	39.19	39.40	40.67	39.40	3.2

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

² Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	261,106	1,250,324	220,808	261,106	220,808	18.3
Canada ¹	183,579	1,250,304	188,112	183,579	188,112	-2.4
Mexico	77,527	-	32,696	77,527	32,696	137.1
Other ²	-	20	-	-	-	-
South America Total	1,538,455	1,354,216	1,432,926	1,538,455	1,432,926	7.4
Argentina	142,717	27,718	87,019	142,717	87,019	64.0
Brazil	1,395,738	1,326,498	1,345,907	1,395,738	1,345,907	3.7
Europe Total	6,257,177	7,018,548	8,237,325	6,257,177	8,237,325	-24.0
Albania	-	-	20,216	-	20,216	-
Belgium & Luxembourg	626,895	1,084,518	1,279,468	626,895	1,279,468	-51.0
Bulgaria	202,014	200,714	101,391	202,014	101,391	99.2
Finland	66,023	-	-	66,023	-	-
France	898,295	952,895	1,138,393	898,295	1,138,393	-21.1
Germany, FR	88,007	-	20,893	88,007	20,893	321.2
Italy	1,033,597	1,133,626	1,652,144	1,033,597	1,652,144	-37.4
Netherlands	1,104,444	910,131	1,170,487	1,104,444	1,170,487	-5.6
Norway	17,605	13,746	16,023	17,605	16,023	9.9
Portugal	43,990	-	42,121	43,990	42,121	4.4
Romania	170,439	166,182	137,160	170,439	137,160	24.3
Spain	632,222	603,811	700,267	632,222	700,267	-9.7
Sweden	151,558	445,545	148,695	151,558	148,695	1.9
Turkey	352,652	451,038	251,318	352,652	251,318	40.3
United Kingdom	830,584	902,959	1,227,309	830,584	1,227,309	-32.3
Yugoslavia	38,852	153,383	324,376	38,852	324,376	-88.0
Other ²	-	-	7,064	-	7,064	-
Asia Total	2,588,512	2,871,905	3,311,834	2,588,512	3,311,834	-21.8
China (Taiwan)	82,497	100,255	97,532	82,497	97,532	-15.4
Israel	-	-	32	-	32	-
Japan	2,041,194	1,983,486	2,679,034	2,041,194	2,679,034	-23.8
Korea, Republic of	464,821	788,164	535,236	464,821	535,236	-13.2
Africa Total	344,743	452,049	525,836	344,743	525,836	-34.4
Algeria	107,453	155,026	115,310	107,453	115,310	-6.8
Egypt	159,959	175,443	275,638	159,959	275,638	-42.0
South Africa, Rep of	77,331	121,580	134,888	77,331	134,888	-42.7
Total	10,989,993	12,947,042	13,728,729	10,989,993	13,728,729	-19.9

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

² Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$44.68	\$39.34	\$41.87	\$44.68	\$41.87	6.7
Canada ¹	42.68	39.34	39.96	42.68	39.96	6.8
Mexico	49.41	-	52.82	49.41	52.82	-6.5
South America Total	49.58	49.92	50.34	49.58	50.34	-1.5
Argentina	47.61	49.95	49.25	47.61	49.25	-3.3
Brazil	49.79	49.92	50.41	49.79	50.41	-1.2
Europe Total	50.74	50.95	51.60	50.74	51.60	-1.7
Belgium & Luxembourg	50.12	50.87	51.53	50.12	51.53	-2.7
Bulgaria	46.55	47.29	48.05	46.55	48.05	-3.1
Finland	40.75	-	-	40.75	-	-
France	50.82	49.93	48.28	50.82	48.28	5.3
Germany, FR	51.63	-	51.73	51.63	51.73	-2
Italy	51.18	51.06	53.06	51.18	53.06	-3.5
Netherlands	51.41	51.88	51.81	51.41	51.81	-8
Norway	-	-	46.60	-	46.60	-
Portugal	39.63	-	50.75	39.63	50.75	-21.9
Romania	42.15	42.23	50.17	42.15	50.17	-16.0
Spain	52.86	52.74	54.13	52.86	54.13	-2.3
Sweden	51.11	50.94	51.20	51.11	51.20	-2
Turkey	47.45	49.84	51.43	47.45	51.43	-7.7
United Kingdom	52.38	52.74	52.82	52.38	52.82	-8
Yugoslavia	53.25	51.60	48.55	53.25	48.55	9.7
Asia Total	49.41	50.08	50.59	49.41	50.59	-2.3
China (Taiwan)	50.37	50.05	50.50	50.37	50.50	-3
Japan	49.06	49.34	50.38	49.06	50.38	-2.6
Korea, Republic of	50.78	51.93	51.61	50.78	51.61	-1.6
Africa Total	50.57	51.12	51.64	50.57	51.64	-2.1
Algeria	49.61	51.30	52.61	49.61	52.61	-5.7
Egypt ²	51.19	50.69	50.20	51.19	50.20	2.0
South Africa, Rep of	50.62	51.50	53.75	50.62	53.75	-5.8
Total³	50.11	49.54	51.06	50.11	51.06	-1.9
U.S. Total³	50.23	49.55	51.18	50.23	51.18	-1.9

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

² 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.

³ U.S. Total is an 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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	157,994	265,765	233,676	157,994	233,676	-32.4
Canada	157,994	265,765	233,676	157,994	233,676	-32.4
South America Total	722,651	681,919	353,911	722,651	353,911	104.2
Colombia	500,812	458,284	219,070	500,812	219,070	128.6
Venezuela	221,839	223,635	134,841	221,839	134,841	64.5
Asia Total	219,878	108,475	-	219,878	-	-
India	-	60,014	-	-	-	-
Indonesia	219,878	-	-	219,878	-	-
Malaysia	-	48,461	-	-	-	-
Oceania & Australia Total	-	25,967	28,242	-	28,242	-
Australia	-	25,967	28,242	-	28,242	-
Africa Total	-	5,227	-	-	-	-
South Africa, Rep of	-	5,227	-	-	-	-
Total	1,100,523	1,087,353	615,829	1,100,523	615,829	78.7

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	January - March 1993	October - December 1992	January - March 1992	Year to date		
				1993	1992	Percent Change
North America Total	\$24.85	\$37.82	\$27.17	\$24.85	\$27.17	-8.5
Canada	24.85	37.82	27.17	24.85	27.17	-8.5
South America Total	31.76	33.80	41.81	31.76	41.81	-23.7
Colombia	32.04	33.84	37.08	32.04	37.08	-13.8
Venezuela	31.15	34.13	48.96	31.15	48.96	-36.4
Asia Total	42.92	37.80	-	42.92	-	-
India	-	26.07	-	-	-	-
Indonesia	42.92	-	-	42.92	-	-
Malaysia	-	51.87	-	-	-	-
Oceania & Australia Total	-	37.12	36.79	-	36.79	-
Australia	-	37.12	36.79	-	36.79	-
Africa Total	-	54.33	-	-	-	-
South Africa, Rep of	-	54.33	-	-	-	-
Total¹	33.17	35.22	36.09	33.17	36.09	-8.1
U.S. Total²	33.85	36.47	37.07	33.85	37.07	-8.7

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, U.S. Department of Commerce. All of the EIA data were collected by mail from respondents who were required to report; no sampling procedures were used. Followup of nonrespondents was conducted through EIA's standard procedures, which include written and telephone requests.

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

Coal Surveys

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

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

EIA conducts three quarterly coal surveys--of manufacturers consuming coal, of coke plants, and of distributors of coal--and one annual survey of mines producing coal. All data, with a few exceptions that are stated in the Technical Notes, are presented as reported on the surveys with no estimations or other adjustments

for missing data. The data are maintained in a computer system and are edited to ensure that they are reasonable, consistent, and complete.

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

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

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

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

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

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

Coke Plant Report (Form EIA-5)

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

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

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

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

Coal Distribution Report (Form EIA-6)

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

At present, there are 13 hundred respondents to the EIA-6 survey. Until the end of 1988, coal distribution companies were required to report production on a Bureau of Mines (BOM) district basis. For the year 1989, respondents were required to report on a BOM district/State basis. Beginning with the first quarter of 1990, respondents were required to report on a State basis. The response rate for the current quarter was 100 percent. The annual production total reported on Form EIA-6 exceeds 99 percent of total production as reported by all mines on Form EIA-7A, "Coal Production Report," due to the difference in reporting thresholds. The data gathered on the Form EIA-6 only represent the domestic coal distributed during the quarter. Therefore, imported coal distributed during the quarter is not included.

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

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

Coal Production Report (Form EIA-7A)

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

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

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

Electric Utility Surveys

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

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

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

Monthly Power Plant Report (Form EIA-759)

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

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

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

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

Data from this survey are preliminary and unrevised in all four quarterly issues of the publication for the reporting year. In the following year's January - March issue, any revisions necessary for the entire prior year are applied and the data are considered final.

Export and Import Data

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

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

Technical Notes

1. Differences in Related Coal Data

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

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

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

2. Other Industrial Plants and Manufacturing

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

3. Residential and Commercial

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

4. Receipts

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

Electric Utilities. Receipts are reported on FERC Form 423.

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

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

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

5. Prices

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

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

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

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

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

6. Consumption

Quarterly Data

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

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

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

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

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

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

Monthly Data

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

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

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

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

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

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

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

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

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

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

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

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

7. Stocks

Quarterly Data

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

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

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

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

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

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

Monthly Data

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

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

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

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

8. Production

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

Weekly Data

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

Next, the estimate of coal shipped by AAR railroads for the week is converted to total coal produced by all States for the week. This U.S. weekly coal production estimate for a specific week is obtained by dividing the AAR rail tonnage for the week by a factor representing the proportion of quarterly AAR rail shipments to total quarterly coal production. Because this is done on a weekly basis, and prior to completion of current quarterly statistics, the factor used is derived, using ICC data on tons per carload and total carloadings and 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, Pa. on the Delaware River; Galveston Regional Coal Distribution Center, Pelican Island, Galveston, Texas; International Marine Terminals/Plaquemines Parish Terminal, Mile 57 AHP-Mississippi River, approximately 30 miles south of New Orleans; Energy Terminals of Houston, Inc., a Subsidiary of Soros Associates, Houston, Texas. Coastal Ports are those located at Charleston, South Carolina; New York, New York; San Diego, California; Los Angeles, California; and Seattle, Washington.

Truck: Shipments of coal moved to consumers by truck.

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

10. Census Export and Import Data

Export and import data are obtained from the Bureau of the Census, U.S. Department of Commerce, where

they are compiled monthly from documents filed with the U.S. Customs Service, as required by law.

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

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

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

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

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

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

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

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

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

11. Metric Data

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

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

12. Revisions

The Office of Coal, Nuclear, Electric and Alternate Fuels has adopted the following policy with respect to the revision and correction of recurrent data in energy publications:

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

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

3. The magnitudes of changes due to revisions experienced in the past will be included in the data reports, so that the reader can assess the accuracy of the data (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	NA
Distribution (Thousand Short Tons)		
Electric Generation	290	14
Other Industrial	215	32
Coke Plants	250	234
Residential/Commercial	3	*
Receipts (Thousand Short Tons)		
Electric Generation	840	143
Other Industrial	740	211
Coke Plants	73	33
Residential/Commercial	0	*
Average Price of Coal Receipts (Dollars per Short Ton)		
Electric Generation	.06	.05
Other Industrial	.04	*
Coke Plants	.06	.19
Consumption (Thousand Short Tons)		
Electric Generation	221	196
Other Industrial	188	215
Coke Plants	73	0
Residential/Commercial	28	*
Stocks¹ (Thousand Short Tons)		
Electric Generation	1,603	285
Other Industrial	25	0
Coke Plants	0	5
Producer/Distributor	203	10

¹ Stocks are end of quarter values.

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

Notes: • Change refers to the difference between preliminary quarterly data published in *Quarterly Coal Report* (QCR) and the final quarterly data published in the QCR and *Coal Production*. • Mean absolute value of change is the unweighted average of the absolute changes. • NA=Not Available.

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	23.289	22.734	23.107	22.428	23.084
Consumption	21.405	22.080	22.518	21.583	22.322	20.817	21.512
Non-electric utility users	22.719	23.749	24.578	24.536	25.128	23.031	24.399
Electric utilities	17.652	18.168	18.180	16.516	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	26.308
Coal Coke	24.800	24.800	24.800	24.800	24.800	24.800	24.800
	1987	1988	1989	1990	1991	1992	1993
Anthracite							
Production	23.108	23.266	23.385	22.574	22.573	22.571	22.571
Consumption	22.435	22.423	22.623	21.668	21.410	21.278	21.278
Non-electric utility users	26.293	26.021	27.196	25.199	25.268	26.660	24.660
Electric utilities	15.962	17.312	16.310	16.140	15.858	16.898	16.898
Imports and exports	25.400	25.400	25.400	25.400	25.400	25.400	25.400
Bituminous Coal and Lignite							
Production	21.918	21.817	21.759	21.819	21.678	21.672	21.672
Consumption	21.514	21.324	21.268	21.330	21.146	21.164	21.164
Residential and commercial	22.800	23.135	22.917	22.678	22.635	22.871	22.871
Coke plants	26.800	26.800	26.800	26.800	26.800	26.800	26.800
Other industrial and transportation	22.390	22.341	22.324	22.444	22.448	22.305	22.305
Electric utilities	21.143	20.905	20.854	20.935	20.761	20.809	22.809
Imports	25.000	25.000	25.000	25.000	25.000	25.000	25.000
Exports	26.304	26.308	26.166	26.207	26.192	26.166	26.166
Coal Coke	24.800	24.800	24.800	24.800	24.800	24.800	24.800

Note: Values for 1991 are final. Values for 1992 and 1993 are preliminary.

Glossary

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

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

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

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

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

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

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

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

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

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

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

Census Divisions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

plant without any insurance or freight transportation charges added.

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

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

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

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

GE = Greater than or equal to
LT = Less than

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

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

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

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

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

Short Ton: A unit of weight equal to 2 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 following ASTM Specification D388-84 on a moist mineral-matter-free basis:

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

GE = Greater than or equal to
LT = Less than

Sulfur: One of the elements present in varying quantities in coal that contributes to environmental 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).

END

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