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Quarterly Coal Report
October-December
1997

Energy Information Administration
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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 report presents detailed quarterly data for October through December 1997 and aggregated quarterly historical data for 1991 through the third quarter of 1997. Appendix A displays, from 1991 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 1996 DOE/EIA-0384(97); *Monthly Energy Review* DOE/EIA-0035; *Coal Data : A Reference* DOE/EIA-0064(93) DOE/EIA-0035; and *Coal Industry Annual* DOE/EIA-0584(96) .

The historical data in this report are collected by the EIA in three quarterly coal surveys (coal consumption at manufacturing plants, coal production, and coal consumption at coke plants), one annual coal production survey, and two monthly surveys of electric utilities. The coal surveys originated in the 1920's, at the Bureau of Mines, U.S. Department of the Interior. 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 for 1997, with the exception of coal production, are final. U.S. coal production data for 1996 and previous years are based on the annual survey Form EIA-7A, "Coal Production Report." Coal production data for 1997 are preliminary and are based on the quarterly survey Form EIA-6 Schedule Q, "Quarterly Coal Report."

A description of the revision policy and methodologies used to calculate data in this report can be found in Appendix C, ***Explanatory Notes***. Table C1 presents the mean absolute value of change for 1995 and 1996 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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Summary

U.S. coal production in the fourth quarter of 1997 was 274 million short tons, bringing the total for 1997 to a record output of 1.089 billion short tons, up 25 million short tons from the 1996 record (Table 1). Coal production in the Appalachian and Western Regions in 1997 totaled 465 million short tons and 452 million short tons, respectively, each up 3 percent from the 1996 levels. In the Interior Region, coal production totaled 172 million short tons, about the same as in the previous year.

Wyoming was the leading coal-producing State in 1997 with a record level of 282 million short tons, 3 million short tons higher than in 1996. Wyoming, along with Montana and New Mexico, up 3 million short tons, respectively, were primarily responsible for the growth in coal production in the West. The Appalachian Region produced 13 million short tons more coal than a year ago. Most of this growth can be attributed to increased production in Pennsylvania (up 5 million short tons), and Eastern Kentucky and West Virginia (each up 3 million short tons). In comparison, the amount of coal produced in the Interior Region remained about the same as in 1996, as higher output in Indiana (up 5 million short tons) offset lower production in Illinois (down 5 million short tons) (Table 4).

U.S. coal receipts in the fourth quarter of 1997 totaled 254 million short tons, 3 percent higher than in the comparable quarter in 1996. This brought the total amount of delivered coal in 1997 to 987 million short tons, of which 881 million short tons or nearly 90 percent of total receipts went to electric utilities (Table 20). Although gas-fired and hydroelectric generation rose by 9 percent and 3 percent, respectively, above 1996 levels, coal continued to be the primary energy source for electric generation and also served as a replacement for lost nuclear generation. Coke plant receipts declined 5 percent in 1997, while the amount of coal received by the other industrial and residential/commercial sectors was virtually unchanged.

The average price of coal receipts at U.S. electric utility plants in the fourth quarter of 1997 was $25.91 per short ton compared with $25.72 per short ton in the previous quarter (Table 21). In 1997, utility coal prices averaged $26.16 per short ton. Increased shipments of low-cost, low- sulfur Western coal and the expiration of high-cost, long- term contracts contributed to this downward annual trend. The average annual price of coal receipts at coke plants was $47.36 per short ton in 1997 compared with $47.33 per short ton in 1996 (Table 31). Other industrial coal receipts averaged $32.41 for the year, slightly more than the $32.32 per short ton paid for coal receipts in 1996 (Table 33).

Coal consumption for the fourth quarter of 1997 totaled 258 million short tons, of which 231 million short tons was consumed by the electric utility sector. U.S. coal consumption in 1997 reached a record level of over 1 billion short tons, 24 million short tons higher than the 1996 consumption level. Electric utilities' increased use of coal-fired generation was a major factor, as they consumed a record 902 million short tons of coal -- about 89 percent of the 1997 total.

Coal consumption at coke plants fell 2.3 million short tons below the 1996 reported total. Coal consumed at other industrial plants also declined by 239 thousand short tons, while consumption was unchanged in the residential and commercial sectors (Table 37).

Total U.S. electric utility generation and coal-fired electric generation hit record levels in 1997, 2 percent and 3 percent higher, respectively, than in 1996. Increased coal-fired generation occured in all the Census Divisions with the exception of the Pacific, primarily to meet the higher demand for electricity and to make up for the 7-percent decline in nuclear-powered generation as a result of nuclear units being out of service for a substantial portion of the year for scheduled refueling, maintenance, or repair outages.

U.S. coal exports in the fourth quarter of 1997 totaled 21 million short tons, down 12 percent from the same quarter a year ago. Exported coal totaled 84 million short tons in 1997, 8 percent lower than the 90 million short tons exported in 1996. The decrease in coal exports can be attributed to: a 6-million-short-ton drop in steam coal exports to Europe, primarily to Italy, the Netherlands, and Denmark; a 3-million-short-ton drop in exports to Asia, primarily to Japan and Israel; and, a 2-million-short-ton drop in exports to Africa, primarily to Morocco (Table 8). Steam coal exports declined by 16 percent to 31 million short tons, while metallurgical coal exports totaled 52 million short tons, about the same as in 1996 (Table 10,12).

In the fourth quarter of 1997, the average price of U.S. coal exports was $40.40 per short ton. In 1997, the average annual price of exported coal was $40.55 per short ton compared with $40.76 per short ton in 1996. This brought the value of all exported coal in 1997 to $3.4 billion (Table 9). Steam coal export prices in 1997 averaged $32.42 per short ton, 5 percent below the 1996 average annual price of $34.09 per short ton (Table 11). Metallurgical coal

exports averaged $45.45 per short ton, relatively unchanged from a year ago (Table 13).

U.S. coal imports in the fourth quarter of 1997 rose 24 percent above the fourth quarter 1996 level to over 2 million short tons due to an increase in shipments from Colombia and Venezuela (Table 16). Coal imports in 1997 totaled 7.5 million short tons, 5 percent more than coal imports in 1996, primarily due to higher shipments from Colombia and Venezuela, up 23 percent and 4 percent, which offset lower shipments from other countries.

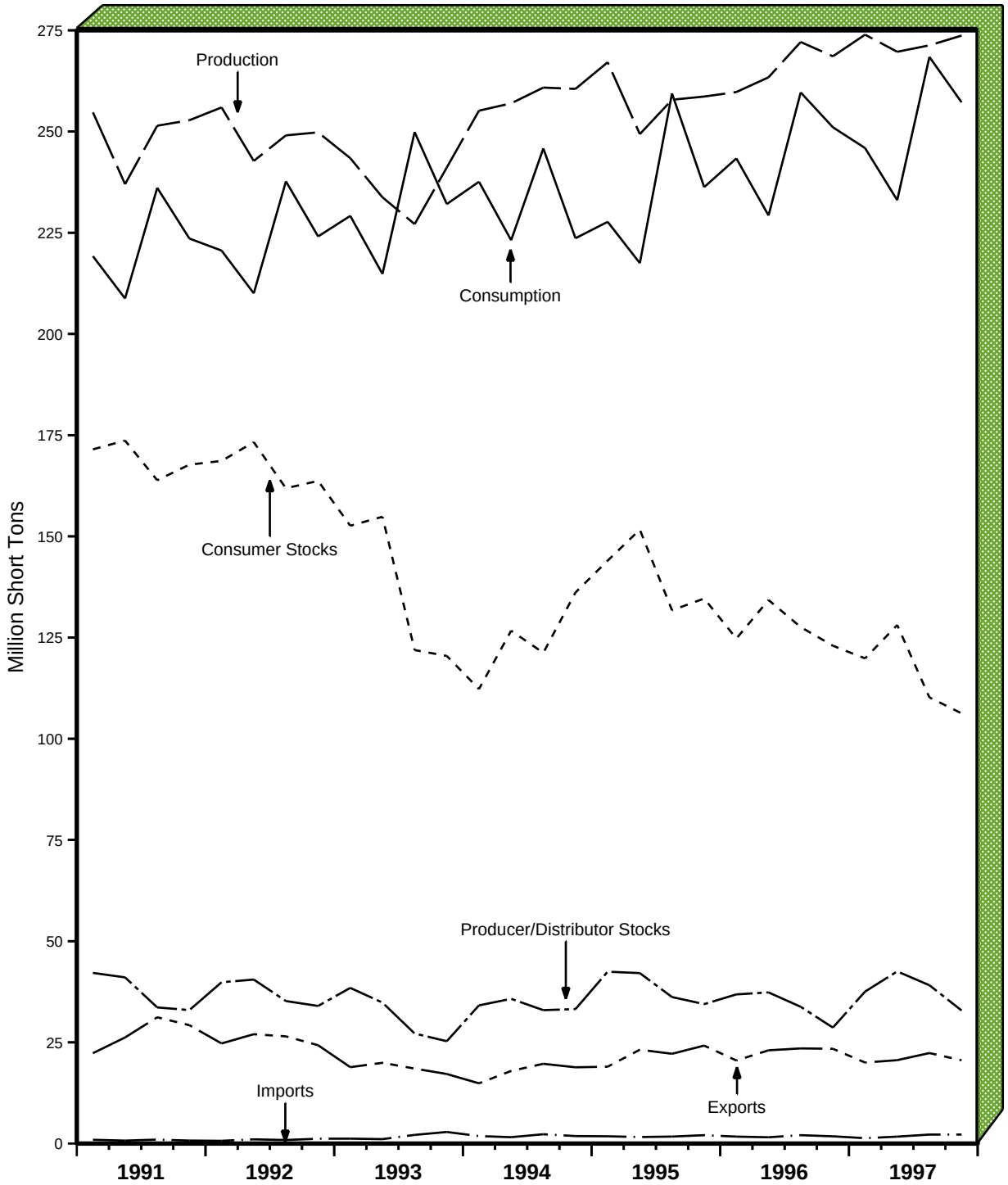
The average price of U.S. coal imports in the fourth quarter of 1997 was $34.49 about the same as in the fourth quarter of 1996. The average annual price increased 3 percent, from $33.45 per short ton in 1996, to $34.32 per short ton in 1997. Canada and Venezuela, two of our largest foreign suppliers of coal, had price increases of 9 percent and 7 percent, respectively, over their 1996 average annual prices (Table 17). For 1997, total U.S. coal imports were valued at $257 million.

U.S. coke imports totaled 1.6 million short ton in 1997, 41 percent higher than the 1.1 million short tons reported in 1996. This increase is attributed to larger shipments from Mainland China and Japan, up 298 thousand short tons and 206 thousand short tons, respectively (Table 19). In comparison, U.S. coke exports in 1997 amounted to 832 thousand short tons, 26 percent lower than in 1996, as European demand declined by 86 percent (down 374 thousand short tons) and was partially offset by a 75-percent increase in demand from Mexico (up 108 thousand short tons)(Table 15).

By the end of December 1997, U.S. coal stocks totaled 140 million short tons, 8 percent lower than the 152 million short tons held at the end of 1996 (Table 45). Of this, 99 million short tons, a record-low, were held by electric utility plants. Utility stocks fell in all but two regions and can be primarily attributed to transportation problems experienced by Union Pacific Railroad in the second half of the year. The West South Central Region was the hardest hit in 1997, particularily in Texas and Arkansas, down 4 million short tons (38 percent) and 2 million short tons (65 percent), respectively, from a year ago (Table 47). Year-end 1997 coal stocks at coke plants at 2 million short tons declined 9 percent, while other industrial stockpiles (6 million short tons) dropped 2 percent from their level last year (Table 48,49). Producer/ distributor stocks were 33 million short tons at the end of 1997 compared with 29 million short tons at the end of 1996 (Table 52).

Sources: Energy Information Administration, *Electric Power Monthly,* March 1998, DOE/EIA-0226(98/03); *Monthly Energy Review,* March 1998, DOE/EIA-0035(98/03).

Figure 1. Quarterly U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1991-1997



Note: Each increment represents end-of-quarter data.

Sources, Production: Energy Information Administration (EIA), Form EIA-6, Schedule Q, "Quarterly Coal Report"; and Form EIA-7A, "Coal Production;" U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report;" and State mining agency coal production reports; Imports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145 ;" Producer and Distributor Stocks: Form EIA-6, Schedule Q, "Quarterly Coal Report;" and, Form EIA-6, "Coal Distribution Report;" Exports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545;" Consumption and Consumer Stocks: EIA, Form EIA-759, Monthly Power Plant Report;" Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants;" Form EIA-867, "Annual Nonutility Power Producer Report;" Form EIA-7A, "Coal Production Report;" and Form EIA-5, "Coke Plant Report - Quarterly."

Table 1. U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1991-1997

(Thousand Short Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks[1]	Consumption	Exports	Consumer Stocks[1]	Losses and Unaccounted For[2]
1991 January - March	254,746	938	42,162	219,208	22,318	171,485	2,140
April - June	237,006	730	41,054	208,757	26,214	173,663	1,696
July - September	251,438	984	33,628	236,093	31,197	163,860	2,360
October - December	252,794	738	32,971	223,562	29,239	167,711	–2,464
Total	**995,984**	**3,390**		**887,621**	**108,969**		**3,731**
1992 January - March	255,956	679	39,853	220,594	24,731	168,632	3,507
April - June	242,735	1,043	40,513	210,037	27,010	173,270	1,434
July - September	249,055	882	35,198	237,698	26,481	161,878	2,464
October - December	249,799	1,199	33,993	224,093	24,294	163,692	2,002
Total	**997,545**	**3,803**		**892,421**	**102,516**		**9,407**
1993 January - March	243,417	1,213	38,453	229,165	18,870	152,619	3,208
April - June	233,750	1,093	34,827	214,820	19,946	154,842	1,479
July - September	227,131	2,142	27,183	249,872	18,522	121,909	1,457
October - December	241,127	2,861	25,284	232,087	17,181	120,458	–1,930
Total	**945,424**	**7,309**		**925,944**	**74,519**		**4,213**
1994 January - March	255,153	1,850	34,139	237,596	14,877	112,278	3,854
April - June	256,964	1,577	35,758	223,145	17,940	126,694	1,421
July - September	260,853	2,304	32,955	245,820	19,704	121,225	5,904
October - December	260,535	1,853	33,219	223,640	18,838	136,139	4,732
Total	**1,033,504**	**7,584**		**930,201**	**71,359**		**15,912**
1995 January - March	267,121	1,795	42,460	227,695	18,988	144,004	5,128
April - June	249,352	1,609	42,104	217,496	23,184	151,657	2,985
July - September	257,857	1,725	36,193	259,415	22,175	131,739	3,822
October - December	258,644	2,071	34,444	236,274	24,201	134,639	–912
Total	**1,032,974**	**7,201**		**940,880**	**88,547**		**11,023**
1996 January - March	259,756	1,713	36,851	243,360	20,516	124,752	5,074
April - June	263,397	1,552	37,344	229,264	23,039	134,280	2,625
July - September	272,118	2,071	33,780	259,657	23,504	127,588	1,284
October - December	268,585	1,790	28,648	251,053	23,414	122,979	5,648
Total	**1,063,856**	**7,126**		**983,334**	**90,473**		**14,631**
1997 January - March	273,927	1,331	37,544	246,758	20,011	120,575	4,414
April - June	269,701	1,708	42,529	233,864	20,603	128,876	3,656
July - September	271,291	2,222	39,111	269,330	22,354	110,826	3,296
October - December	273,700	2,226	32,879	257,861	20,576	106,837	7,709
Total	**1,088,619**	**7,487**		**1,007,813**	**83,545**		**19,075**

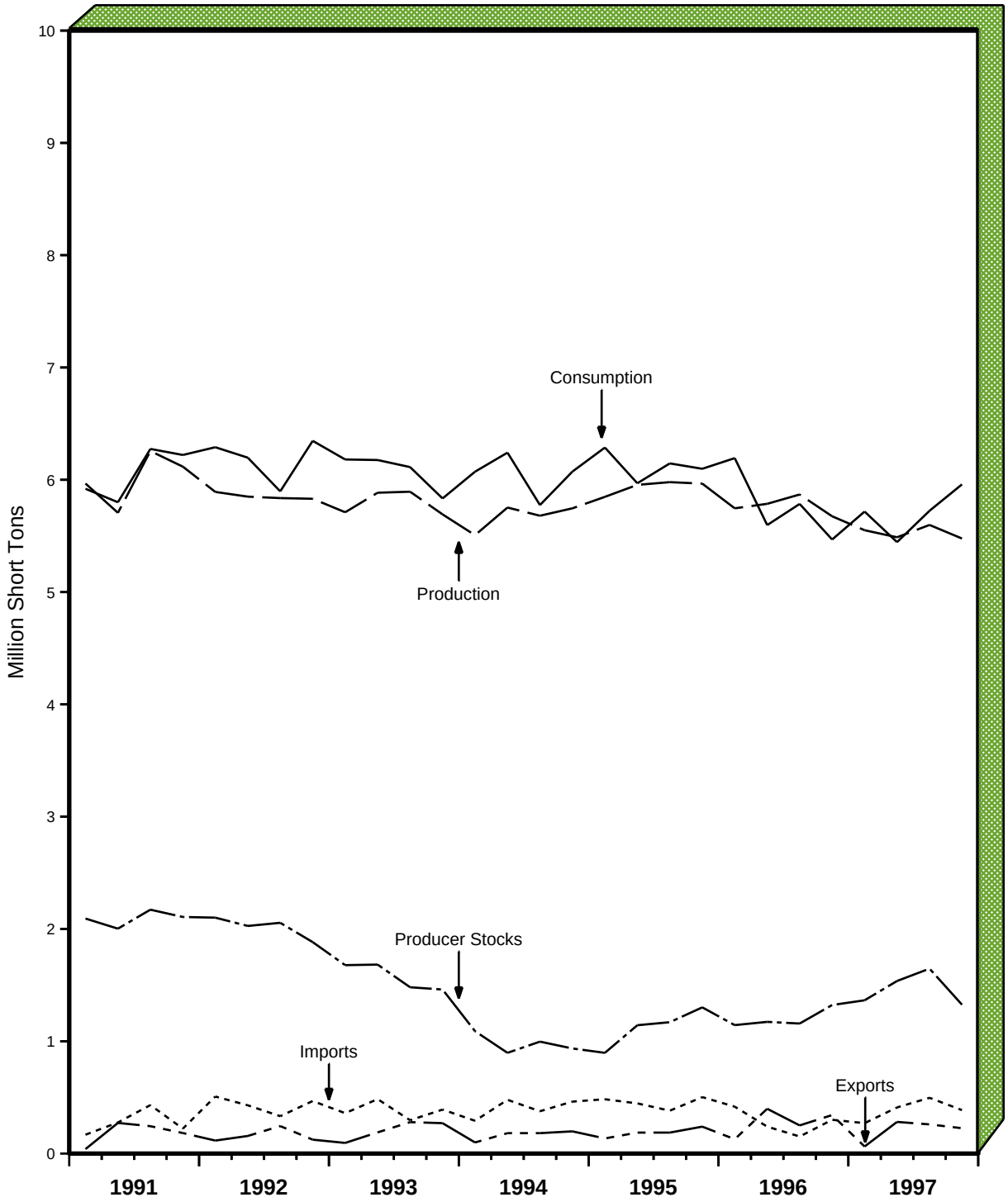
[1] Reported as of the last day of the quarter.

[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: Consumption data for 1991 through 1996 exclude coal consumed by independent power producers to generate electricity and cogeneration plants not included in the other industrial, coke, and commercial sectors. For 1991 through 1996, these excluded EIA quarterly estimated consumption data are: 1500, 2500, 3086, 3785, 5200, and 6000 thousand short tons, respectively. Total may not equal sum of components because of independent rounding.

Sources: • Production: Energy Information Administration (EIA), Form EIA-6, Schedule Q, ''Quarterly Coal 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;'' and Form EIA-6, Schedule Q, ''Quarterly Coal 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;'' Form EIA-867, ''Annual Nonutility Power Producer Report;'' Form EIA-7A, ''Coal Production Report;'' and Form EIA-6, ''Coal Distribution Report.''

Figure 2. U.S. Coke Production, Imports, Consumption, Exports, and Stocks, 1991-1997



Note: Each increment represents end-of-quarter data.
Sources: Production, Consumption, and Producer and Distributor Stocks: Energy Information Administration (EIA), Form EIA-5, "Coke Plant Report - Quarterly;" Exports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545;" Imports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145."

Table 2. U.S. Coke Production, Imports, Consumption, Exports, and Stocks, 1991-1997

(Thousand Short Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks[1]	Consumption[2]	Exports
1991 January - March	5,967	168	2,093	5,920	40
April - June	5,706	277	2,003	5,800	273
July - September	6,256	432	2,172	6,275	244
October - December	6,117	222	2,107	6,221	183
Total	**24,046**	**1,099**		**24,216**	**740**
1992 January - March	5,892	508	2,101	6,290	116
April - June	5,850	430	2,027	6,197	157
July - September	5,837	333	2,055	5,897	245
October - December	5,831	468	1,883	6,347	124
Total	**23,410**	**1,739**		**24,731**	**642**
1993 January - March	5,711	360	1,678	6,181	95
April - June	5,885	485	1,683	6,176	189
July - September	5,894	297	1,481	6,113	280
October - December	5,692	392	1,461	5,834	271
Total	**23,182**	**1,534**		**24,303**	**835**
1994 January - March	5,507	292	1,090	6,072	99
April - June	5,753	479	897	6,242	182
July - September	5,680	377	997	5,775	182
October - December	5,746	463	936	6,073	198
Total	**22,686**	**1,612**		**24,163**	**660**
1995 January - March	5,848	484	897	6,287	135
April - June	5,955	447	1,143	5,969	187
July - September	5,979	382	1,170	6,146	187
October - December	5,966	503	1,302	6,098	240
Total	**23,749**	**1,816**		**24,500**	**750**
1996 January - March	5,746	418	1,144	6,193	128
April - June	5,786	240	1,173	5,597	399
July - September	5,869	152	1,158	5,785	251
October - December	5,675	301	1,323	5,468	343
Total	**23,075**	**1,111**		**23,043**	**1,121**
1997 January - March	5,551	271	1,365	5,717	63
April - June	5,488	411	1,537	5,445	282
July - September	5,598	497	1,647	5,724	260
October - December	5,477	387	1,326	5,959	226
Total	**22,115**	**1,565**		**22,845**	**832**

1 Reported as of the last day of the quarter.

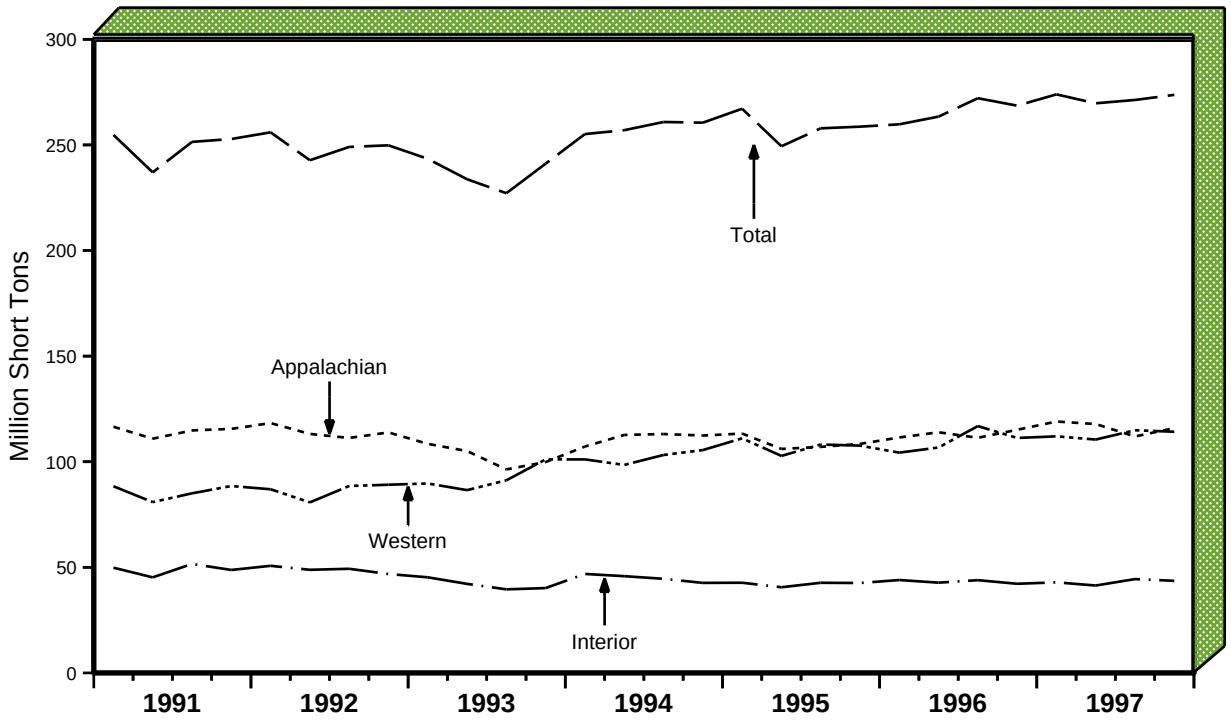
2 Consumption is equal to production plus imports plus/minus the change in producer and distributor stocks minus exports.

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.''

Production

Figure 3. U.S. Quarterly Coal Production, 1991-1997



Note: Each increment represents end-of-quarter data.
Sources: Energy Information Administration (EIA), Form EIA-6, Schedule Q, "Quarterly Coal Report"; and Form EIA-7A, "Coal Production 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, 1991-1997
(Thousand Short Tons)

Year	January - March	April - June	July - September	October - December	Year to Date
1991	254,746	237,006	251,438	252,794	995,984
1992	255,956	242,735	249,055	249,799	997,545
1993	243,417	233,750	227,131	241,127	945,424
1994	255,153	256,964	260,853	260,535	1,033,504
1995	267,121	249,352	257,857	258,644	1,032,974
1996	259,756	263,397	272,118	268,585	1,063,856
1997	273,927	269,701	271,291	273,700	1,088,619

Notes: Total may not equal sum of components because of independent rounding.
Sources: Energy Information Administration (EIA), Form EIA-6, Schedule Q, ''Quarterly Coal Report;'' and Form EIA-7A, ''Coal Production Report;'' Mine Safety and Health Administration, U.S. Department of Labor, Form 7000-2, ''Quarterly Mine Employment and Coal Production Report;'' and State mining agency coal production reports.

Table 4. Coal Production by State

(Thousand Short Tons)

Coal-Producing Region and State	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
Alabama	5,770	5,604	5,987	24,357	24,637	–1.1
Alaska	435	321	469	1,443	1,481	–2.6
Arizona	3,221	2,943	2,698	11,811	10,442	13.1
Arkansas	6	5	5	18	21	–12.3
Colorado	5,743	6,663	6,482	27,492	24,886	10.5
Illinois	9,856	9,564	10,631	41,956	46,656	–10.1
Indiana	9,404	9,362	8,520	34,515	29,670	16.3
Kansas	89	75	54	363	232	56.2
Kentucky Total	39,751	38,306	37,632	155,859	152,425	2.3
Eastern	30,009	28,884	29,327	119,722	116,951	2.4
Western	9,743	9,422	8,305	36,137	35,474	1.9
Louisiana	794	996	746	3,562	3,221	10.6
Maryland	900	1,129	913	4,140	4,093	1.2
Missouri	91	95	191	401	710	–43.6
Montana	11,784	10,278	10,610	41,016	37,891	8.2
New Mexico	6,158	7,201	5,893	27,138	24,067	12.8
North Dakota	7,757	7,371	7,888	29,497	29,861	–1.2
Ohio	8,136	7,489	7,568	30,654	28,572	7.3
Oklahoma	422	375	372	1,616	1,701	–5.0
Pennsylvania Total	19,143	17,931	17,720	73,232	67,942	7.8
Anthracite	1,314	1,290	1,496	4,929	4,751	3.7
Bituminous	17,829	16,641	16,224	68,303	63,190	8.1
Tennessee	748	780	941	3,290	3,651	–9.9
Texas	13,199	14,537	13,391	53,722	55,164	–2.6
Utah	6,785	6,186	6,863	27,053	27,507	–1.6
Virginia	9,054	8,835	9,137	36,389	35,590	2.2
Washington	1,294	1,421	1,088	4,496	4,565	–1.5
West Virginia Total	42,152	41,309	43,526	172,954	170,433	1.5
Northern	11,020	10,595	12,105	45,960	45,910	.1
Southern	31,132	30,714	31,421	126,993	124,523	2.0
Wyoming	71,007	72,513	69,259	281,647	278,440	1.2
Appalachian Total	**115,912**	**111,960**	**115,119**	**464,737**	**451,868**	**2.8**
Interior Total	**43,604**	**44,431**	**42,214**	**172,290**	**172,848**	**–.3**
Western Total	**114,184**	**114,899**	**111,252**	**451,592**	**439,140**	**2.8**
East of the Miss. River	**144,916**	**140,309**	**142,574**	**577,345**	**563,668**	**2.4**
West of the Miss. River	**128,785**	**130,982**	**126,011**	**511,274**	**500,188**	**2.2**
U.S. Total	**273,700**	**271,291**	**268,585**	**1,088,619**	**1,063,856**	**2.3**

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

Sources: Energy Information Administration (EIA), Form EIA-6, Schedule Q, ''Quarterly Coal 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)

	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
Coke Total	5,477	5,598	5,675	22,115	23,075	–4.2
By State						
Alabama	480	584	605	2,234	2,445	–8.6
Illinois	w	w	w	w	w	w
Indiana	1,086	1,102	1,119	4,391	4,493	–2.3
Kentucky	w	w	w	w	w	w
Michigan	w	w	w	w	w	w
New York	w	w	w	w	w	w
Ohio	345	341	345	1,359	1,370	–.8
Pennsylvania	1,921	1,954	1,959	7,696	7,729	–.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	652	748	779	2,903	3,105	–6.5
Furnace Coke Plants	4,825	4,850	4,896	19,212	19,971	–3.8
Breeze Total	309	304	327	1,233	1,402	–12.0

[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.''

Exports and Imports

Table 6. U.S. Coal Exports and Imports, 1991-1997
(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
1991	22,318	938	26,214	730	31,197	984	29,239	738	108,969	3,390
1992	24,731	679	27,010	1,043	26,481	882	24,294	1,199	102,516	3,803
1993	18,870	1,213	19,946	1,093	18,522	2,142	17,181	2,861	74,519	7,309
1994	14,877	1,850	17,940	1,577	19,704	2,304	18,838	1,853	71,359	7,584
1995	18,988	1,795	23,184	1,609	22,175	1,725	24,201	2,071	88,547	7,201
1996	20,516	1,713	23,039	1,552	23,504	2,071	23,414	1,790	90,473	7,126
1997	20,011	1,331	20,603	1,708	22,354	2,222	20,576	2,226	83,545	7,487

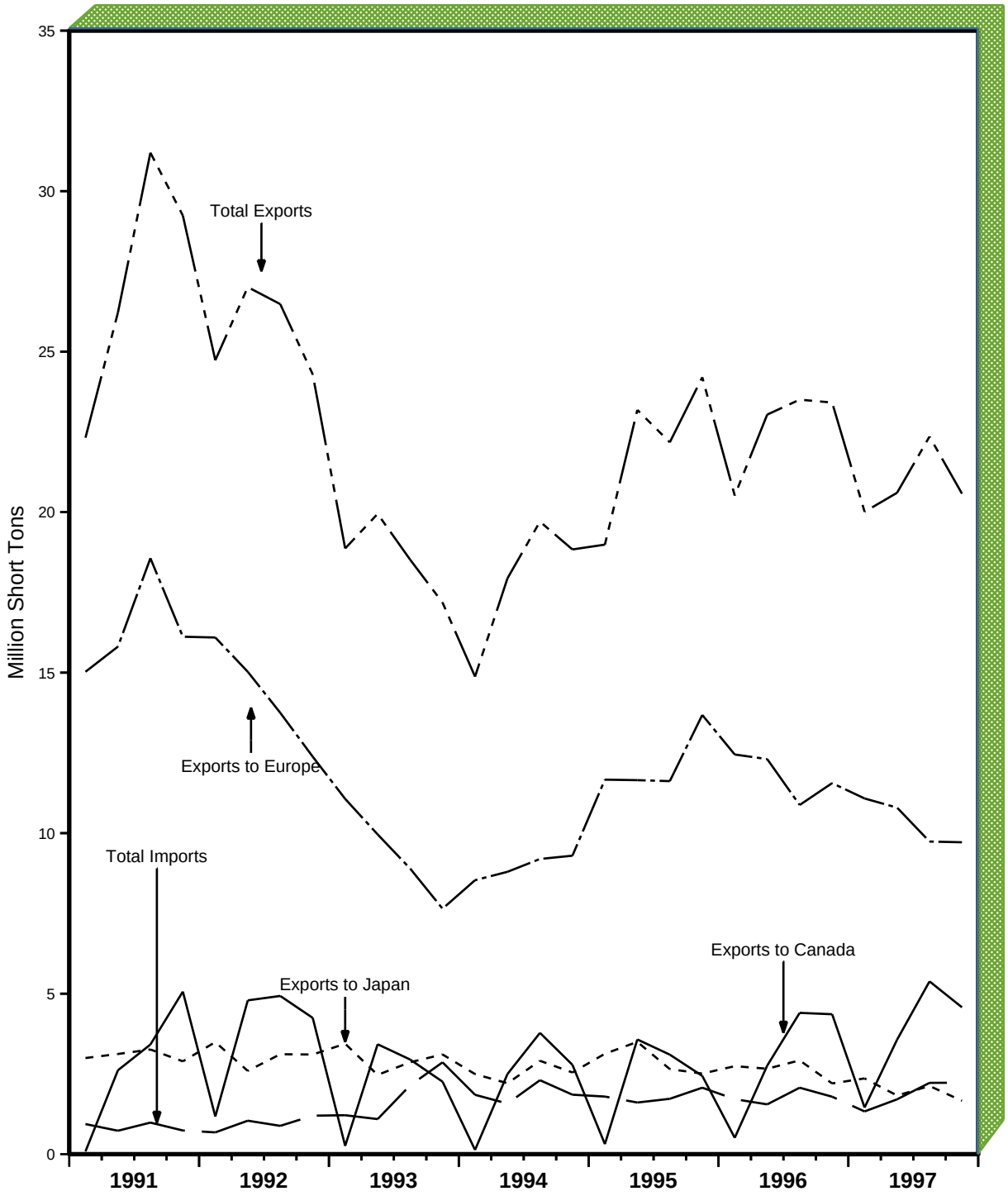
Notes: Total may not equal sum of components because of independent rounding. More detailed data included in Table A3.
Sources: Exports: Bureau of the Census, U.S. Department of Commerce, ''Monthly Report EM 545;'' and Imports: Bureau of the Census, U.S. Department of Commerce, ''Monthly Report IM 145.''

Table 7. Average Price of U.S. Coal Exports and Imports, 1991-1997
(Dollars per Short Ton)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
1991	$44.58	$33.71	$42.97	$34.60	$41.51	$31.45	$41.15	$33.16	$42.39	$33.12
1992	42.28	33.63	41.34	32.96	40.70	34.43	41.07	33.08	41.34	33.46
1993	42.46	30.70	41.42	32.26	40.72	29.52	41.00	28.91	41.41	29.89
1994	41.89	28.86	40.01	28.73	38.86	30.92	39.43	31.93	39.93	30.21
1995	39.90	32.33	39.59	36.16	40.99	33.61	40.55	34.54	40.27	34.13
1996	41.77	33.52	40.78	32.46	40.53	33.19	40.08	34.55	40.76	33.45
1997	41.72	33.85	40.80	35.26	39.42	33.69	40.40	34.49	40.55	34.32

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 4. Quarterly U.S. Coal Exports and Imports, 1991-1997



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 8. U.S. Coal Exports

(Short Tons)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**5,025,039**	**5,973,329**	**4,994,143**	**16,946,731**	**13,609,464**	**24.5**
Canada[1]	4,574,542	5,381,781	4,358,965	14,975,471	12,028,569	24.5
Jamaica	13,681	–	8,214	41,525	23,897	73.8
Mexico	433,094	569,797	601,406	1,898,646	1,508,512	25.9
Other[2]	3,722	21,751	25,558	31,089	48,486	–35.9
South America Total	**1,719,078**	**2,329,485**	**2,028,955**	**8,214,094**	**7,504,690**	**9.5**
Argentina	55,676	92,779	48,642	325,347	303,876	7.1
Brazil	1,596,998	2,102,955	1,766,824	7,454,523	6,540,072	14.0
Chile	83	49,720	165,279	145,802	573,790	–74.6
Other[2]	66,321	84,031	48,210	288,422	86,952	231.7
Europe Total	**9,715,823**	**9,739,335**	**11,559,073**	**41,331,151**	**47,192,789**	**–12.4**
Belgium & Luxembourg	1,036,974	1,069,286	982,647	4,318,896	4,569,281	–5.5
Bulgaria	111,921	338,813	336,951	1,114,238	1,386,863	–19.7
Denmark	–	125,224	254,015	350,071	1,316,482	–73.4
Finland	238,627	218,519	64,483	661,527	703,569	–6.0
France	832,292	741,135	1,189,507	3,398,333	3,852,461	–11.8
Germany, FR	202,848	239,689	257,911	870,195	1,054,932	–17.5
Ireland	23,492	231,143	253,354	636,769	765,038	–16.8
Italy	1,546,695	1,882,364	2,096,012	7,019,026	9,204,240	–23.7
Netherlands	1,106,539	1,109,351	1,453,385	4,825,328	7,058,187	–31.6
Norway	23,592	18,030	28,583	96,355	84,991	13.4
Portugal	448,425	452,719	713,563	1,470,211	1,802,558	–18.4
Romania	671,263	546,946	389,859	2,243,690	1,512,031	48.4
Spain	940,443	1,039,236	963,909	4,134,019	4,092,517	1.0
Sweden	408,844	255,095	376,979	833,668	1,069,583	–22.1
Turkey	386,229	452,019	530,715	2,091,875	2,167,046	–3.5
United Kingdom	1,702,587	1,004,287	1,554,596	7,184,710	6,195,559	16.0
Other[2]	35,052	15,479	112,604	82,240	357,451	–77.0
Asia Total	**3,512,598**	**3,807,094**	**4,198,062**	**14,497,818**	**17,980,343**	**–19.4**
China (Taiwan)	747,980	467,909	501,141	2,240,689	2,441,475	–8.2
Israel	67,059	194,339	382,541	593,035	1,201,771	–50.7
Japan	1,662,830	2,123,870	2,203,491	7,973,942	10,528,604	–24.3
Korea, Republic of	1,024,672	866,441	1,109,803	3,489,240	3,772,680	–7.5
Other[2]	10,057	154,535	1,086	200,912	35,813	461.0
Oceania & Australia Total	**–**	**204**	**608**	**813**	**913**	**–11.0**
Africa Total	**603,515**	**504,993**	**633,258**	**2,554,224**	**4,184,444**	**–39.0**
Algeria	55,010	99,069	61,640	264,089	176,549	49.6
Egypt	267,543	226,906	245,167	1,130,171	1,037,537	8.9
Morocco	–	–	142,805	141,980	1,650,452	–91.4
South Africa, Rep of	263,516	165,517	183,646	986,709	1,319,906	–25.2
Other[2]	17,446	13,501	–	31,275	–	–
Total	**20,576,053**	**22,354,440**	**23,414,099**	**83,544,831**	**90,472,643**	**–7.7**

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 1996.

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 9. Average Price of U.S. Coal Exports

(Dollars per Short Ton)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**$30.35**	**$30.01**	**$31.95**	**$30.57**	**$33.09**	**–7.6**
Canada[1]	28.86	28.63	30.94	29.16	32.23	–9.5
Jamaica	30.53	–	37.20	38.19	34.78	9.8
Mexico	45.64	43.07	38.72	41.31	39.70	4.0
Other[2]	40.79	36.71	39.77	37.92	39.65	–4.4
South America Total	**44.32**	**43.86**	**43.59**	**43.94**	**43.81**	**.3**
Argentina	46.06	49.01	48.36	47.69	46.36	2.9
Brazil	44.40	44.11	44.62	44.12	44.67	–1.2
Chile	–	28.83	31.98	32.24	32.37	–.4
Other[2]	40.72	40.81	40.30	40.81	39.19	4.1
Europe Total	**44.17**	**42.78**	**42.16**	**43.02**	**42.10**	**2.2**
Belgium & Luxembourg	46.46	43.16	45.27	45.71	45.73	*
Bulgaria	46.33	45.60	45.75	46.42	44.26	4.9
Denmark	–	28.44	29.09	31.72	29.30	8.3
Finland	39.55	44.03	34.29	41.63	42.11	–1.1
France	44.95	48.03	44.96	45.96	44.94	2.3
Germany, FR	47.86	41.28	51.38	44.59	41.08	8.6
Ireland	47.17	37.42	37.40	37.99	37.35	1.7
Italy	46.63	44.92	45.41	45.54	45.05	1.1
Netherlands	45.20	45.90	42.53	44.97	41.36	8.7
Norway	58.38	–	51.90	–	–	2.3
Portugal	36.35	37.24	36.19	36.76	36.53	.6
Romania	43.97	39.78	43.38	44.58	46.95	–5.1
Spain	41.86	34.77	40.23	37.01	37.56	–1.5
Sweden	48.28	47.98	47.71	48.19	47.50	1.5
Turkey	44.49	46.46	42.36	46.07	44.33	3.9
United Kingdom	41.63	41.99	36.98	39.30	38.90	1.0
Other[2]	57.66	59.91	35.31	–	38.03	49.1
Asia Total	**38.98**	**39.40**	**39.17**	**39.73**	**39.57**	**.4**
China (Taiwan)	37.34	36.62	37.12	36.75	36.86	–.3
Israel	34.95	36.95	37.01	36.81	36.40	1.1
Japan	37.41	38.95	39.58	39.00	39.41	–1.0
Korea, Republic of	42.98	43.11	40.00	43.98	42.72	2.9
Other[2]	39.34	36.41	38.70	36.33	48.89	–25.7
Oceania & Australia Total	–	**40.71**	**40.71**	**40.79**	**40.71**	**.2**
Africa Total	**48.66**	**47.40**	**47.18**	**48.50**	**44.36**	**9.3**
Algeria	47.49	45.36	51.24	46.64	–	–7.2
Egypt	48.84	49.81	51.77	–	–	–3.9
Morocco	–	–	35.52	30.67	33.93	–9.6
South Africa, Rep of	49.25	46.14	48.76	48.66	49.55	–1.8
Other[2]	40.82	37.23	–	39.27	–	–
Total[3]	**40.12**	**39.05**	**39.76**	**40.24**	**40.53**	**–.7**
U.S. Total[4]	**40.40**	**39.42**	**40.08**	**40.55**	**40.76**	**–.5**

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

2 Includes countries with exports less than or equal to 50,000 short tons in 1996.

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 $20 to $60 per short ton, inclusively.

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

* Rounded to zero

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

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

Table 10. U.S. Steam Coal Exports

(Short Tons)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**3,288,047**	**4,066,210**	**3,119,185**	**11,592,222**	**7,109,819**	**63.0**
Canada[1]	2,983,191	3,606,507	2,616,991	10,084,325	5,998,839	68.1
Jamaica	13,681	–	8,214	41,525	23,897	73.8
Mexico	287,453	437,952	468,422	1,435,283	1,038,597	38.2
Other[2]	3,722	21,751	25,558	31,089	48,486	–35.9
South America Total	**80,693**	**140,305**	**226,759**	**572,801**	**691,119**	**–17.1**
Argentina	9,486	4,532	10,695	48,237	13,277	263.3
Brazil	4,803	2,022	2,575	90,340	94,946	–4.9
Chile	83	49,720	165,279	145,802	496,141	–70.6
Other[2]	66,321	84,031	48,210	288,422	86,755	232.5
Europe Total	**2,249,559**	**3,078,279**	**4,478,370**	**12,529,609**	**18,939,855**	**–33.8**
Belgium & Luxembourg	207,082	364,019	317,255	946,688	1,124,537	–15.8
Bulgaria	–	–	54,633	–	173,148	–
Denmark	–	125,224	254,015	350,071	1,316,482	–73.4
Finland	99,898	–	64,483	160,259	164,025	–2.3
France	140,762	–	283,235	342,241	768,750	–55.5
Germany, FR	29,328	61,800	–	220,628	517,022	–57.3
Ireland	23,492	231,143	253,354	515,948	765,038	–32.6
Italy	349,075	779,034	808,770	2,437,770	3,911,389	–37.7
Netherlands	143,333	139,798	361,480	711,421	2,916,642	–75.6
Norway	–	–	12,397	6,638	23,881	–72.2
Portugal	377,822	382,080	645,540	1,256,170	1,628,212	–22.8
Romania	–	95,536	–	95,536	–	–
Spain	304,089	526,289	365,772	1,882,688	1,989,832	–5.4
Sweden	–	–	5,512	–	82,676	–
Turkey	1,988	1,330	890	5,093	140,300	–96.4
United Kingdom	550,644	372,026	938,430	3,569,845	3,114,607	14.6
Other[2]	22,046	–	112,604	28,613	303,314	–90.6
Asia Total	**1,517,037**	**1,863,777**	**1,883,447**	**6,519,928**	**9,165,905**	**–28.9**
China (Taiwan)	480,150	318,878	385,489	1,686,095	2,065,695	–18.4
Israel	239	156,693	247,829	456,474	936,308	–51.2
Japan	655,257	917,510	844,238	3,182,750	4,976,402	–36.0
Korea, Republic of	371,334	327,628	404,805	1,017,011	1,175,234	–13.5
Other[2]	10,057	143,068	1,086	177,598	12,266	(3)
Oceania & Australia Total	**–**	**204**	**608**	**813**	**913**	**–11.0**
Africa Total	**18,285**	**13,501**	**142,805**	**175,095**	**1,614,783**	**–89.2**
Egypt	839	–	–	1,840	910	102.2
Morocco	–	–	142,805	141,980	1,613,873	–91.2
Other[2]	17,446	13,501	–	31,275	–	–
Total	**7,153,621**	**9,162,276**	**9,851,174**	**31,390,468**	**37,522,394**	**–16.3**

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

2 Includes countries with exports less than or equal to 50,000 short tons in 1996.

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 11. Average Price of U.S. Steam Coal Exports

(Dollars per Short Ton)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**$27.24**	**$27.94**	**$29.02**	**$28.26**	**$29.41**	**–3.9**
Canada[1]	25.57	26.37	27.54	26.64	28.06	–5.0
Jamaica	30.53	–	37.20	38.19	34.78	9.8
Mexico	43.56	40.19	36.14	38.67	36.21	6.8
Other[2]	40.79	36.71	39.77	37.92	39.65	–4.4
South America Total	**40.73**	**36.56**	**33.97**	**38.78**	**34.94**	**11.0**
Argentina	40.81	40.80	40.81	40.79	40.53	.6
Brazil	40.79	40.77	40.73	42.12	40.57	3.8
Chile	–	28.83	31.98	32.24	32.76	–1.6
Other[2]	40.72	40.81	40.30	40.81	39.16	4.2
Europe Total	**33.10**	**32.75**	**33.54**	**32.52**	**33.71**	**–3.5**
Belgium & Luxembourg	36.01	35.77	36.27	36.34	36.69	–1.0
Bulgaria	–	–	53.66	–	–	–
Denmark	–	28.44	29.09	31.72	29.30	8.3
Finland	36.20	–	34.29	36.20	35.23	2.8
France	33.84	–	35.54	34.84	36.14	–3.6
Germany, FR	38.96	27.22	–	35.04	31.92	9.7
Ireland	47.17	37.42	37.40	38.13	37.35	2.1
Italy	38.66	38.11	39.89	39.30	41.20	–4.6
Netherlands	32.86	33.02	33.19	32.52	32.94	–1.3
Portugal	34.92	35.99	35.27	35.48	35.60	–.3
Romania	–	29.17	–	29.17	–	–
Spain	25.31	21.59	21.69	22.38	22.14	1.1
Sweden	–	–	43.45	–	39.21	–
Turkey	43.94	40.82	40.75	42.02	41.28	1.8
United Kingdom	29.90	31.29	28.76	29.99	28.82	4.1
Other[2]	–	–	35.31	34.59	34.56	.1
Asia Total	**34.34**	**34.65**	**35.43**	**34.94**	**35.84**	**–2.5**
China (Taiwan)	34.22	34.21	35.10	34.71	35.33	–1.8
Israel	40.82	36.10	34.88	35.92	35.12	2.3
Japan	34.45	34.19	35.78	34.97	36.31	–3.7
Korea, Republic of	34.16	35.64	35.35	35.01	35.32	–.9
Other[2]	39.34	34.74	38.70	33.56	38.26	–12.3
Oceania & Australia Total	**–**	**40.71**	**40.71**	**40.79**	**40.71**	**.2**
Africa Total	**40.81**	**37.23**	**35.52**	**32.31**	**34.02**	**–5.0**
Egypt	40.62	–	–	40.73	40.78	–.1
Morocco	–	–	35.52	30.67	34.01	–9.8
Other[2]	40.82	37.23	–	39.27	–	–
Total[3]	**30.84**	**31.11**	**32.57**	**31.61**	**33.51**	**–5.7**
U.S. Total[4]	**31.84**	**31.77**	**33.39**	**32.42**	**34.09**	**–4.9**

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 1996.

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 $20 to $60 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 12. U.S. Metallurgical Coal Exports
(Short Tons)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**1,736,992**	**1,907,119**	**1,874,958**	**5,354,509**	**6,499,645**	**–17.6**
Canada[1]	1,591,351	1,775,274	1,741,974	4,891,146	6,029,730	–18.9
Mexico	145,641	131,845	132,984	463,363	469,915	–1.4
South America Total	**1,638,385**	**2,189,180**	**1,802,196**	**7,641,293**	**6,813,571**	**12.1**
Argentina	46,190	88,247	37,947	277,110	290,599	–4.6
Brazil	1,592,195	2,100,933	1,764,249	7,364,183	6,445,126	14.3
Chile	–	–	–	–	77,649	–
Other[2]	–	–	–	–	197	–
Europe Total	**7,466,264**	**6,661,056**	**7,080,703**	**28,801,542**	**28,252,934**	**1.9**
Belgium & Luxembourg	829,892	705,267	665,392	3,372,208	3,444,744	–2.1
Bulgaria	111,921	338,813	282,318	1,114,238	1,213,715	–8.2
Finland	138,729	218,519	–	501,268	539,544	–7.1
France	691,530	741,135	906,272	3,056,092	3,083,711	–.9
Germany, FR	173,520	177,889	257,911	649,567	537,910	20.8
Ireland	–	–	–	120,821	–	–
Italy	1,197,620	1,103,330	1,287,242	4,581,256	5,292,851	–13.4
Netherlands	963,206	969,553	1,091,905	4,113,907	4,141,545	–.7
Norway	23,592	18,030	16,186	89,717	61,110	46.8
Portugal	70,603	70,639	68,023	214,041	174,346	22.8
Romania	671,263	451,410	389,859	2,148,154	1,512,031	42.1
Spain	636,354	512,947	598,137	2,251,331	2,102,685	7.1
Sweden	408,844	255,095	371,467	833,668	986,907	–15.5
Turkey	384,241	450,689	529,825	2,086,782	2,026,746	3.0
United Kingdom	1,151,943	632,261	616,166	3,614,865	3,080,952	17.3
Other[2]	13,006	15,479	–	53,627	54,137	–.9
Asia Total	**1,995,561**	**1,943,317**	**2,314,615**	**7,977,890**	**8,814,438**	**–9.5**
China (Taiwan)	267,830	149,031	115,652	554,594	375,780	47.6
Israel	66,820	37,646	134,712	136,561	265,463	–48.6
Japan	1,007,573	1,206,360	1,359,253	4,791,192	5,552,202	–13.7
Korea, Republic of	653,338	538,813	704,998	2,472,229	2,597,446	–4.8
Other[2]	–	11,467	–	23,314	23,547	–1.0
Africa Total	**585,230**	**491,492**	**490,453**	**2,379,129**	**2,569,661**	**–7.4**
Algeria	55,010	99,069	61,640	264,089	176,549	49.6
Egypt	266,704	226,906	245,167	1,128,331	1,036,627	8.8
Morocco	–	–	–	–	36,579	–
South Africa, Rep of	263,516	165,517	183,646	986,709	1,319,906	–25.2
Total	**13,422,432**	**13,192,164**	**13,562,925**	**52,154,363**	**52,950,249**	**–1.5**

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

2 Includes countries with exports less than or equal to 50,000 short tons in 1996.

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 13. Average Price of U.S. Metallurgical Coal Exports

(Dollars per Short Ton)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**$35.97**	**$34.32**	**$36.57**	**$35.39**	**$36.79**	**–3.8**
Canada[1]	34.72	33.04	35.73	34.10	35.99	–5.3
Mexico	49.73	53.50	48.31	49.86	47.36	5.3
South America Total	**44.48**	**44.33**	**44.75**	**44.32**	**44.61**	**–.7**
Argentina	47.13	49.42	50.46	48.88	46.87	4.3
Brazil	44.41	44.12	44.63	44.15	44.73	–1.3
Chile	–	–	–	–	30.26	–
Europe Total	**47.47**	**47.50**	**47.61**	**47.60**	**47.68**	**–.1**
Belgium & Luxembourg	49.06	46.98	49.56	48.34	48.68	–.7
Bulgaria	46.33	45.60	44.22	46.42	43.36	7.0
Finland	41.96	44.03	–	43.37	44.21	–1.9
France	47.21	48.03	47.90	47.20	47.13	.2
Germany, FR	49.37	46.16	51.38	47.84	49.87	–4.1
Ireland	–	–	–	37.42	–	–
Italy	48.96	49.73	48.87	48.85	47.90	2.0
Netherlands	46.96	47.76	45.62	47.10	47.29	–.4
Norway	58.38	–	51.90	–	–	2.3
Portugal	44.00	44.00	44.91	44.31	45.20	–2.0
Romania	43.97	42.80	43.38	45.31	46.95	–3.5
Spain	49.75	48.29	51.57	49.23	–	–3.3
Sweden	48.28	47.98	47.77	48.19	48.20	*
Turkey	44.49	46.47	42.36	46.08	44.54	3.5
United Kingdom	47.24	48.29	49.50	48.49	49.08	–1.2
Other[2]	57.66	59.91	–	–	–	3.3
Asia Total	**42.50**	**43.96**	**42.21**	**43.64**	**43.45**	**.4**
China (Taiwan)	42.93	41.76	43.84	42.95	45.24	–5.0
Israel	34.93	40.51	40.91	39.79	40.91	–2.7
Japan	39.33	42.57	41.95	41.68	42.19	–1.2
Korea, Republic of	47.99	47.65	42.68	47.68	46.08	3.5
Other[2]	–	57.29	–	–	–	–3.3
Africa Total	**48.91**	**47.68**	**50.58**	**49.69**	–	**–2.3**
Algeria	47.49	45.36	51.24	46.64	–	–7.2
Egypt	48.87	49.81	51.77	–	–	–3.9
Morocco	–	–	–	–	30.30	–
South Africa, Rep of	49.25	46.14	48.76	48.66	49.55	–1.8
Total[3]	**44.94**	**44.54**	**44.89**	**45.36**	**45.40**	**–.1**
U.S. Total[4]	**44.96**	**44.73**	**44.95**	**45.45**	**45.49**	**–.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 1996.

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 $20 to $60 per short ton, inclusively.

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

* Rounded to zero

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

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

Table 14. Coal Exports by Customs District

(Short Tons)

Customs District	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
Eastern Total	**13,146,727**	**12,941,100**	**14,547,649**	**52,806,370**	**58,161,072**	**–9.2**
Boston, MA	21,725	–	–	21,725	–	–
Baltimore, MD	951,916	1,512,173	2,492,159	6,296,567	11,221,437	–43.9
Portland, ME	302	50	–	590	83	(1)
Buffalo, NY	1,232,030	994,937	710,211	3,593,949	2,262,520	58.8
New York City, NY	408	1,814	351	3,445	6,427	–46.4
Ogdensburg, NY	38,173	10,027	51,009	91,512	115,981	–21.1
Philadelphia, PA	43,815	89,137	131,818	264,622	406,440	–34.9
Norfolk, VA	10,858,286	10,332,962	11,161,995	42,532,871	44,147,537	–3.7
St. Albans, VT	72	–	106	1,089	647	68.3
Southern Total	**3,164,526**	**3,911,939**	**3,813,414**	**15,326,619**	**16,076,864**	**–4.7**
Mobile, AL	1,182,079	1,286,153	1,312,181	5,379,294	5,897,192	–8.8
Savannah, GA	–	8,858	–	36,513	–	–
Miami, FL	1,132	35	1,941	1,328	1,941	–31.6
Tampa, FL	125	45	–	215	–	–
New Orleans, LA	1,463,626	2,006,423	1,869,629	7,639,166	8,669,181	–11.9
Wilmington, NC	–	40	20	60	28	114.3
San Juan, PR	83,251	–	–	83,274	442	(1)
Charleston, SC	5,331	33,509	23,923	164,215	153,990	6.6
El Paso, TX	–	9	–	9	–	–
Houston-Galveston, TX	140,362	125,601	128,958	559,995	296,951	88.6
Laredo, TX	288,620	451,266	476,762	1,462,550	1,057,139	38.3
Western Total	**1,221,126**	**1,210,553**	**1,607,885**	**4,770,815**	**6,831,779**	**–30.2**
Anchorage, AK	267,073	158,396	300,483	740,469	784,194	–5.6
Nogales, AZ	–	–	22	–	22	–
Los Angeles, CA	882,176	987,878	1,306,920	3,785,260	5,899,390	–35.8
San Diego, CA	217	22	–	480	–	–
San Francisco, CA	29,919	–	–	103,506	644	(1)
Great Falls, MT	282	171	124	595	485	22.7
Portland, OR	40,786	–	–	40,786	–	–
Seattle, WA	673	64,086	336	99,719	147,044	–32.2
Northern Total	**3,037,312**	**4,283,689**	**3,438,748**	**10,615,774**	**9,357,956**	**13.4**
Chicago, IL	20,601	–	–	20,601	–	–
Detroit, MI	385,821	409,580	1,729,744	2,282,794	3,804,411	–40.0
Duluth, MN	128,197	–	49,979	128,381	247,148	–48.1
Pembina, ND	227	280	314	705	808	–12.7
Cleveland, OH	2,502,466	3,873,829	1,658,711	8,183,293	5,305,589	54.2
Other Ports	**6,362**	**7,159**	**6,403**	**25,253**	**44,972**	**–43.8**
Total	**20,576,053**	**22,354,440**	**23,414,099**	**83,544,831**	**90,472,643**	**–7.7**

1 Changes of 500 percent or more are not shown.

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

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

Table 15. U.S. Coke Exports
(Short Tons)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**215,138**	**253,462**	**216,286**	**752,412**	**650,998**	**15.6**
Canada[1]	128,186	182,391	165,744	497,946	491,061	1.4
Mexico	85,697	70,092	49,716	251,374	143,379	75.3
Other[2]	1,255	979	826	3,092	16,558	–81.3
South America Total	**–**	**7,010**	**7,032**	**18,573**	**34,619**	**–46.4**
Europe Total	**11,213**	**–**	**119,565**	**61,454**	**435,741**	**–85.9**
Romania	–	–	83,804	–	251,123	–
Other[2]	11,213	–	35,761	61,454	184,618	–66.7
Total	**226,351**	**260,472**	**342,883**	**832,439**	**1,121,358**	**–25.8**

[1] Based on the U.S. - Canada Free Trade Agreement; as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.
[2] Includes countries with exports less than or equal to 50,000 short tons in 1996.
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 16. U.S. Coal Imports
(Short Tons)

Continent and Country of Origin	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**405,720**	**307,761**	**377,456**	**1,211,910**	**1,433,813**	**–15.5**
Canada	405,720	307,761	372,342	1,211,557	1,426,504	–15.1
Mexico	–	–	5,114	353	7,309	–95.2
South America Total	**1,330,580**	**1,496,671**	**834,115**	**4,631,213**	**3,989,640**	**16.1**
Argentina	–	–	–	13	–	–
Colombia	707,874	1,042,034	542,460	3,117,122	2,526,804	23.4
Venezuela	622,706	454,637	291,655	1,514,078	1,462,836	3.5
Europe Total	**8,298**	**2,416**	**436**	**26,635**	**2,613**	**([1])**
Belgium & Luxembourg	1,144	2,393	407	6,016	2,473	143.3
Germany, FR	–	19	–	20	–	–
Norway	6,942	–	–	20,383	–	–
Spain	–	–	–	–	99	–
Switzerland	201	–	–	201	–	–
Turkey	–	–	29	–	41	–
United Kingdom	11	4	–	15	–	–
Asia Total	**449,999**	**415,306**	**514,570**	**1,460,503**	**1,534,989**	**–4.9**
China (Mainland)	1,076	478	–	2,006	–	–
Hong Kong	–	–	–	–	1	–
Indonesia	448,923	394,371	514,568	1,425,916	1,534,986	–7.1
Japan	–	–	2	–	2	–
Vietnam	–	20,457	–	32,581	–	–
Oceania & Australia Total	**31,052**	**–**	**63,106**	**156,515**	**164,793**	**–5.0**
Australia	31,052	–	63,106	115,510	164,793	–29.9
New Zealand	–	–	–	41,005	–	–
Total	**2,225,649**	**2,222,154**	**1,789,683**	**7,486,776**	**7,125,848**	**5.1**

[1] Changes of 500 percent or more are not shown.
Notes: Total may not equal sum of components because of independent rounding. Coal imports include coal to Puerto Rico and the Virgin Islands.
Source: Bureau of the Census, U.S. Department of Commerce, ''Monthly Report IM 145.''

Table 17. Average Price of U.S. Coal Imports

(Dollars per Short Ton)

Continent and Country of Origin	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**$40.56**	**$39.18**	**$37.16**	**$38.11**	**$34.89**	**9.2**
Canada	40.56	39.18	37.23	38.11	34.90	9.2
Mexico	–	–	34.11	–	33.43	–
South America Total	**32.76**	**32.27**	**32.07**	**32.49**	**31.24**	**4.0**
Colombia	31.17	32.38	32.13	32.11	31.40	2.3
Venezuela	34.57	32.01	31.97	33.26	30.97	7.4
Europe Total	**49.22**	–	–	**49.22**	–	–
Norway	49.45	–	–	49.45	–	–
Switzerland	41.20	–	–	41.20	–	–
Asia Total	**32.86**	**32.88**	**31.42**	**33.05**	**32.45**	**1.8**
Indonesia	32.86	32.04	31.42	32.82	32.45	1.1
Vietnam	–	49.09	–	49.09	–	–
Oceania & Australia Total	**31.45**	–	**33.22**	**33.47**	**33.41**	**.2**
Australia	31.45	–	33.22	33.47	33.41	.2
Total[1]	**34.19**	**33.29**	**32.66**	**33.50**	**32.17**	**4.1**
U.S. Total[2]	**34.49**	**33.69**	**34.55**	**34.32**	**33.45**	**2.6**

[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 $55 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 18. Coal Imports by Customs District

(Short Tons)

Customs District	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
Eastern Total	**679,738**	**843,849**	**495,101**	**2,508,318**	**2,144,142**	**17.0**
Boston, MA	356,260	553,068	401,208	1,533,510	1,803,234	–15.0
Baltimore, MD	–	–	–	–	99	–
Portland, ME	146,069	64,731	65,798	366,768	246,852	48.6
Buffalo, NY	1,166	2,415	407	6,060	2,658	128.0
New York City, NY	164,053	179,114	–	518,043	65	(1)
Ogdensburg, NY	–	–	–	–	50	–
Philadelphia, PA	12,190	44,502	27,688	83,918	91,184	–8.0
Norfolk, VA	–	19	–	19	–	–
Southern Total	**927,267**	**895,657**	**682,769**	**2,985,167**	**2,745,266**	**8.7**
Mobile, AL	61,968	53,408	31,417	214,241	288,484	–25.7
Savannah, GA	16,750	92,415	–	178,085	118,509	50.3
Miami, FL	38,591	–	–	38,604	–	–
Tampa, FL	298,169	457,792	316,915	1,320,515	1,419,408	–7.0
New Orleans, LA	292,919	219,944	299,082	840,919	808,592	4.0
San Juan, PR	60,414	51,641	30,212	201,413	96,901	107.9
Houston-Galveston, TX	122,284	20,457	29	154,865	6,063	(1)
Laredo, TX	–	–	5,114	353	7,309	–95.2
Virgin Islands	36,172	–	–	36,172	–	–
Western Total	**235,702**	**189,299**	**247,299**	**862,053**	**830,157**	**3.8**
Los Angeles, CA	–	–	2	149	2	(1)
Honolulu, HI	204,928	174,427	239,469	759,385	810,176	–6.3
Great Falls, MT	1	–	–	282	25	(1)
Portland, OR	6,942	–	–	20,383	–	–
Seattle, WA	23,831	14,872	7,828	81,854	19,954	310.2
Northern Total	**382,942**	**293,349**	**364,514**	**1,131,238**	**1,406,283**	**–19.6**
Chicago, IL	123,466	113,555	57,275	329,778	238,592	38.2
Detroit, MI	162,299	95,026	127,448	388,678	374,566	3.8
Duluth, MN	–	–	67,122	416	291,346	–99.9
St Louis, MO	–	–	–	–	1	–
Pembina, ND	96,101	84,290	112,669	410,509	501,778	–18.2
Milwaukee, WI	1,076	478	–	1,857	–	–
Total	**2,225,649**	**2,222,154**	**1,789,683**	**7,486,776**	**7,125,848**	**5.1**

1 Changes of 500 percent or more are not shown.

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

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

Table 19. U.S. Coke Imports

(Short Tons)

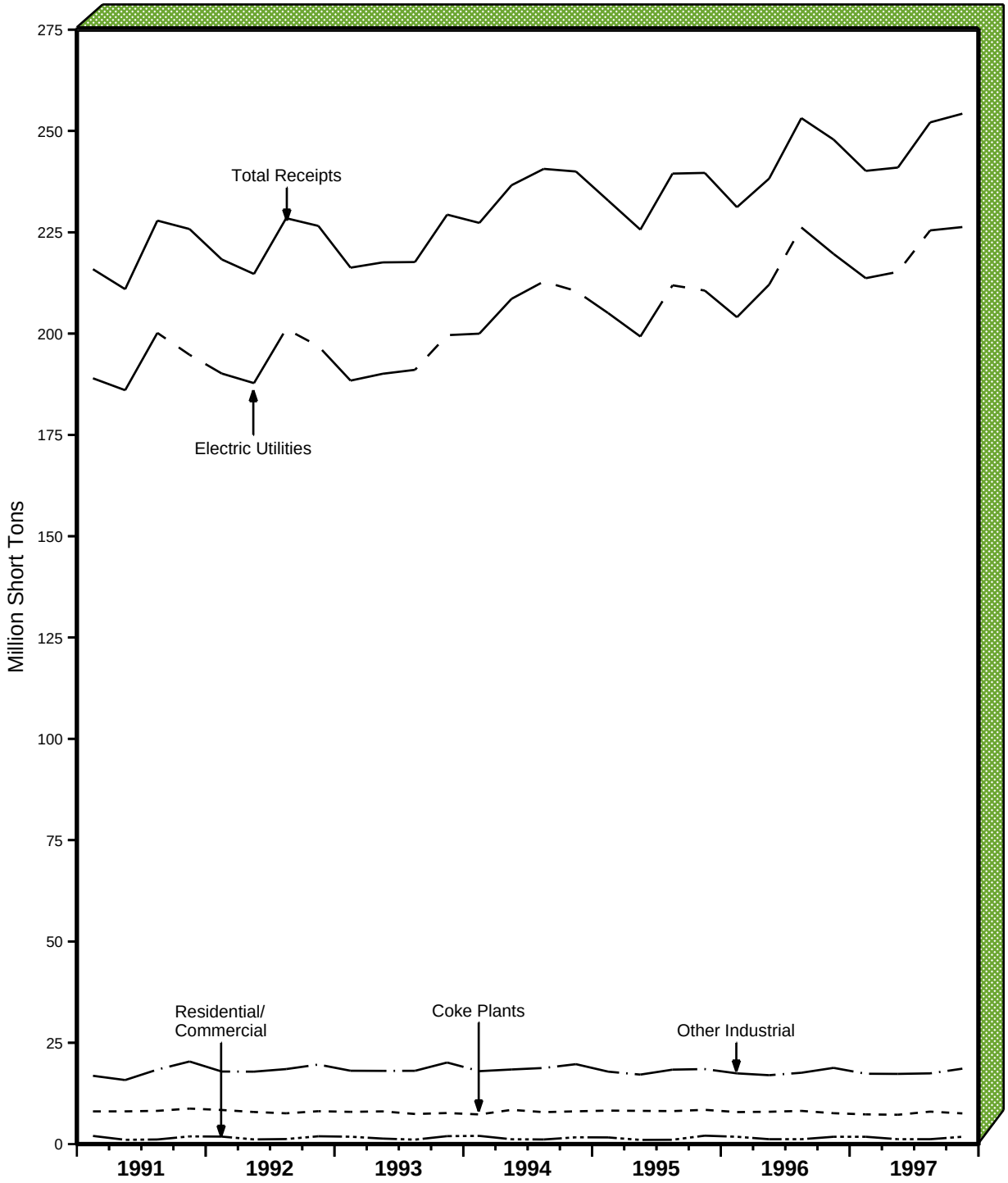
Continent and Country of Origin	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**1,387**	**2,849**	**10,557**	**19,222**	**68,533**	**–72.0**
Canada	1,387	2,849	10,557	19,222	68,533	–72.0
Asia Total	**385,419**	**493,986**	**290,213**	**1,546,070**	**1,042,120**	**48.4**
China (Mainland)	117,429	222,272	48,883	528,399	230,679	129.1
Japan	267,990	271,714	241,330	1,017,671	811,441	25.4
Total	**386,806**	**496,835**	**300,770**	**1,565,292**	**1,110,653**	**40.9**

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

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

Receipts

Figure 5. Quarterly U.S. Coal Receipts, 1991-1997



Note: Each increment represents end-of-quarter data.
Sources: Energy Information Administration (EIA), Electric Utilities: Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly;" Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report-"Manufacturing Plants;" Form EIA-867, "Annual Nonutility Power Producer Report;" and, Form EIA-7A, "Coal Production Report;" Residential and Commercial: Form EIA-6,"Coal Distribution Report."

Table 20. U.S. Coal Receipts by End-Use Sector, 1991-1997

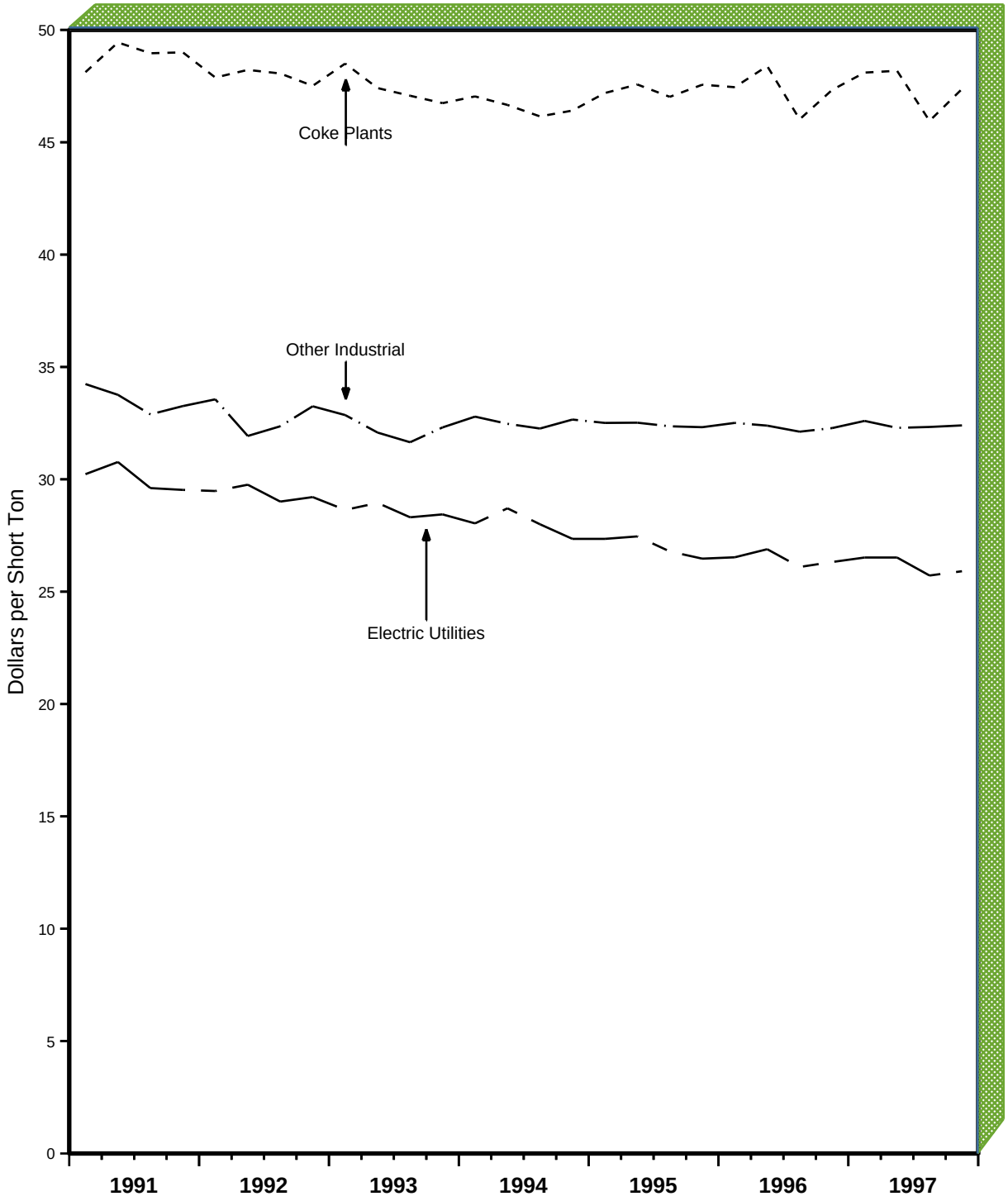
(Thousand Short Tons)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial	Residential and Commercial	Total
1991 January - March	188,963	8,066	16,847	2,008	215,885
April - June	186,026	8,073	15,800	1,055	210,953
July - September	200,172	8,195	18,385	1,132	227,884
October - December	194,762	8,757	20,377	1,899	225,795
Total	**769,923**	**33,090**	**71,410**	**6,094**	**880,517**
1992 January - March	190,139	8,410	17,902	1,843	218,294
April - June	187,772	7,915	17,873	1,149	214,708
July - September	201,143	7,592	18,503	1,236	228,473
October - December	196,909	8,110	19,625	1,925	226,569
Total	**775,963**	**32,027**	**73,903**	**6,153**	**888,046**
1993 January - March	188,401	7,951	18,095	1,817	216,264
April - June	190,085	8,067	18,062	1,354	217,568
July - September	191,054	7,426	18,075	1,094	217,649
October - December	199,612	7,661	20,127	1,956	229,356
Total	**769,152**	**31,104**	**74,359**	**6,221**	**880,836**
1994 January - March	199,981	7,318	17,990	2,016	227,305
April - June	208,576	8,438	18,408	1,187	236,610
July - September	212,849	7,881	18,777	1,135	240,642
October - December	210,523	8,081	19,717	1,674	239,996
Total	**831,929**	**31,719**	**74,893**	**6,013**	**944,553**
1995 January - March	205,054	8,261	17,871	1,638	232,824
April - June	199,275	8,192	17,144	1,032	225,643
July - September	211,914	8,135	18,369	1,063	239,481
October - December	210,617	8,449	18,510	2,074	239,649
Total	**826,860**	**33,036**	**71,895**	**5,807**	**937,597**
1996 January - March	204,394	7,894	17,444	1,802	231,534
April - June	212,197	7,974	16,995	1,201	238,368
July - September	226,454	8,187	17,598	1,201	253,440
October - December	219,656	7,616	18,804	1,802	247,878
Total	**862,701**	**31,672**	**70,842**	**6,006**	**971,220**
1997 January - March	213,666	7,330	17,352	1,802	240,150
April - June	215,227	7,232	17,315	1,201	240,975
July - September	225,461	8,010	17,444	1,201	252,116
October - December	226,284	7,567	18,605	1,802	254,258
Total	**880,638**	**30,138**	**70,716**	**6,006**	**987,498**

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;'' Form EIA-6, ''Coal Distribution Report;'' Form EIA-867, ''Annual Nonutility Power Producer Report;'' Form EIA-7A, ''Coal Production Report;'' and • Residential and Commercial: Form EIA-6, ''Coal Distribution Report.''

Figure 6. Quarterly Average Price of U.S. Coal Receipts, 1991-1997



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

Table 21. Average Price of U.S. Coal Receipts by End-Use Sector, 1991-1997

(Dollars per Short Ton)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial[1]
1991 January - March	$30.23	$48.12	$34.24
April - June	30.77	49.44	33.76
July - September	29.61	48.96	32.89
October - December	29.53	49.00	33.26
Average Annual Price	**30.02**	**48.88**	**33.54**
1992 January - March	29.48	47.88	33.56
April - June	29.76	48.22	31.93
July - September	29.01	48.06	32.36
October - December	29.21	47.51	33.25
Average Annual Price	**29.36**	**47.92**	**32.78**
1993 January - March	28.64	48.50	32.86
April - June	28.95	47.41	32.08
July - September	28.31	47.07	31.65
October - December	28.44	46.74	32.31
Average Annual Price	**28.58**	**47.44**	**32.23**
1994 January - March	28.04	47.04	32.79
April - June	28.71	46.66	32.47
July - September	28.00	46.15	32.26
October - December	27.35	46.41	32.66
Average Annual Price	**28.03**	**46.56**	**32.55**
1995 January - March	27.35	47.19	32.51
April - June	27.46	47.57	32.52
July - September	26.79	47.02	32.36
October - December	26.47	47.56	32.32
Average Annual Price	**27.01**	**47.34**	**32.42**
1996 January - March	26.54	47.45	32.51
April - June	26.89	48.39	32.39
July - September	26.10	46.02	32.12
October - December	26.31	47.33	32.28
Average Annual Price	**26.45**	**47.33**	**32.32**
1997 January - March	26.52	48.10	32.60
April - June	26.52	48.18	32.29
July - September	25.72	45.95	32.33
October - December	25.91	47.37	32.40
Average Annual Price	**26.16**	**47.36**	**32.41**

[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 1 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 22. Coal Receipts by Census Division and State

(Thousand Short Tons)

Census Division and State	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
New England Total	**1,868**	**1,803**	**1,864**	**7,398**	**7,321**	**1.1**
Connecticut	195	212	248	958	937	2.3
Maine	44	48	78	194	259	–25.2
Massachusetts	1,210	1,133	1,158	4,616	4,789	–3.6
New Hampshire	418	408	380	1,625	1,331	22.1
Rhode Island	1	1	1	3	3	.0
Vermont	1	*	1	2	2	.0
Middle Atlantic Total	**18,915**	**18,231**	**18,237**	**72,918**	**70,314**	**3.7**
New Jersey	581	394	798	2,104	2,445	–13.9
New York	3,254	2,957	2,995	11,320	11,037	2.6
Pennsylvania	15,081	14,881	14,444	59,493	56,832	4.7
East North Central Total	**60,753**	**59,349**	**58,539**	**232,691**	**224,449**	**3.7**
Illinois	11,702	11,336	11,968	47,231	43,875	7.6
Indiana	17,046	16,103	14,960	64,587	62,837	2.8
Michigan	10,775	10,314	10,136	36,382	34,636	5.0
Ohio	15,244	14,755	14,909	59,199	58,490	1.2
Wisconsin	5,986	6,841	6,566	25,291	24,611	2.8
West North Central Total	**34,565**	**34,802**	**33,487**	**134,038**	**136,093**	**–1.5**
Iowa	5,106	4,981	4,675	19,943	21,434	–7.0
Kansas	4,329	4,485	4,194	16,887	18,202	–7.2
Minnesota	5,076	5,120	4,755	19,233	18,659	3.1
Missouri	8,812	9,539	8,694	34,991	35,071	–.2
Nebraska	2,564	2,880	2,692	10,923	10,571	3.3
North Dakota	8,026	7,230	8,154	29,683	30,472	–2.6
South Dakota	653	567	323	2,378	1,685	41.2
South Atlantic Total	**41,837**	**41,516**	**41,339**	**164,706**	**162,611**	**1.3**
Delaware	416	497	612	1,867	1,933	–3.4
District of Columbia	7	5	7	23	23	.0
Florida	7,303	7,397	7,176	28,915	27,991	3.3
Georgia	7,783	7,945	6,759	30,400	30,860	–1.5
Maryland	2,882	2,767	2,984	10,956	11,795	–7.1
North Carolina	6,970	7,201	7,377	28,562	27,175	5.1
South Carolina	3,638	3,489	3,883	13,889	13,014	6.7
Virginia	4,109	4,017	4,047	15,843	14,973	5.8
West Virginia	8,730	8,198	8,494	34,250	34,846	–1.7
East South Central Total	**29,702**	**28,833**	**27,187**	**115,730**	**110,674**	**4.6**
Alabama	8,789	8,603	8,978	35,020	35,325	–.9
Kentucky	11,636	11,796	10,141	46,098	42,196	9.2
Mississippi	1,511	1,760	1,726	6,267	5,683	10.3
Tennessee	7,765	6,674	6,342	28,345	27,470	3.2
West South Central Total	**34,994**	**37,229**	**35,359**	**141,506**	**147,087**	**–3.8**
Arkansas	3,028	3,114	3,504	12,175	15,093	–19.3
Louisiana	3,142	3,536	2,909	13,232	12,603	5.0
Oklahoma	4,450	4,870	4,794	19,022	20,335	–6.5
Texas	24,374	25,709	24,152	97,077	99,057	–2.0
Mountain Total	**28,940**	**27,833**	**29,348**	**109,774**	**104,605**	**4.9**
Arizona	4,913	4,554	3,931	17,486	15,716	11.3
Colorado	4,316	4,611	4,626	17,461	16,807	3.9
Idaho	70	121	112	389	338	15.2
Montana	2,732	2,613	2,876	9,312	8,025	16.0
Nevada	1,942	1,737	2,271	7,031	7,498	–6.2
New Mexico	3,831	4,059	4,422	15,860	15,100	5.0
Utah	4,297	3,720	4,171	16,708	15,358	8.8
Wyoming	6,840	6,418	6,939	25,527	25,764	–.9
Pacific Total	**2,683**	**2,521**	**2,679**	**8,740**	**8,720**	**.2**
Alaska	143	95	143	477	477	.0
California	573	517	644	2,174	2,345	–7.3
Hawaii	52	18	71	155	190	–18.7
Oregon	479	335	622	965	935	3.2
Washington	1,435	1,556	1,200	4,969	4,773	4.1
U.S. Total	**254,258**	**252,116**	**248,040**	**987,500**	**971,874**	**1.6**

* Rounded to zero.

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

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;'' Form EIA-867, ''Annual Nonutility Power Producer Report;'' Form EIA-7A, ''Coal Production Report;'' and Form EIA-6, ''Coal Distribution Report.''

Table 23. Quantity and Price of Coal Receipts at Electric Utility Plants by Census Division and State

Census Division and State	October-December 1997		October-December 1996		Year to Date					
					1997		1996		Percent Change	
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	**1,799**	**169**	**1,755**	**171**	**7,115**	**171**	**6,947**	**170**	**2.4**	**0.6**
Connecticut	193	189	246	191	952	190	931	191	2.3	–.3
Massachusetts	1,191	167	1,131	167	4,545	170	4,693	169	–3.1	.7
New Hampshire	416	167	378	167	1,618	163	1,324	161	22.2	1.6
Mid Atlantic	**13,981**	**137**	**13,385**	**140**	**54,154**	**138**	**51,066**	**141**	**6.0**	**–1.9**
New Jersey	576	174	789	173	2,087	176	2,412	175	–13.5	.2
New York	2,427	142	2,173	142	8,277	142	7,896	143	4.8	–.3
Pennsylvania	10,977	134	10,424	136	43,790	135	40,759	138	7.4	–2.1
East North Central	**52,767**	**130**	**50,398**	**133**	**202,548**	**131**	**194,371**	**133**	**4.2**	**–1.9**
Illinois	9,945	147	10,202	160	40,750	155	37,441	163	8.8	–4.5
Indiana	14,267	117	12,073	115	53,470	117	51,680	119	3.5	–2.0
Michigan	9,488	136	8,794	142	32,131	137	30,177	140	6.5	–2.0
Ohio	13,591	135	13,263	134	52,788	132	52,268	134	1.0	–1.4
Wisconsin	5,475	108	6,066	104	23,410	109	22,804	106	2.7	2.8
West North Central	**30,717**	**90**	**29,632**	**91**	**120,147**	**92**	**121,696**	**92**	**–1.3**	**–.4**
Iowa	4,291	91	3,951	92	16,675	94	18,116	94	–8.0	–.5
Kansas	4,275	96	4,126	100	16,671	103	17,950	99	–7.1	3.5
Minnesota	4,513	103	4,168	101	17,591	109	16,744	107	5.1	2.7
Missouri	8,437	93	8,324	96	33,553	93	33,718	95	–.5	–2.2
Nebraska	2,467	58	2,591	68	10,636	59	10,275	72	3.5	–18.7
North Dakota	6,199	81	6,260	74	23,087	78	23,586	74	–2.1	5.5
South Dakota	536	90	213	102	1,934	92	1,307	94	48.0	–1.8
South Atlantic	**37,895**	**146**	**37,313**	**148**	**149,311**	**148**	**146,322**	**149**	**2.0**	**–1.1**
Delaware	362	152	548	162	1,682	157	1,745	159	–3.6	–1.4
Florida	6,990	169	6,849	170	27,595	172	26,700	174	3.4	–.8
Georgia	7,246	159	6,235	159	28,346	159	28,870	158	–1.8	.5
Maryland	2,681	148	2,761	148	10,139	150	10,949	149	–7.4	.4
North Carolina	6,385	140	6,739	148	26,151	143	24,646	148	6.1	–3.7
South Carolina	3,090	145	3,328	147	11,835	145	10,951	147	8.1	–1.6
Virginia	3,117	139	3,011	140	11,930	139	11,024	142	8.2	–1.8
West Virginia	8,024	123	7,842	123	31,633	124	31,438	125	.6	–1.0
East South Central	**26,491**	**124**	**23,791**	**127**	**102,446**	**124**	**96,969**	**125**	**5.6**	**–1.1**
Alabama	7,468	154	7,583	154	29,405	155	29,510	154	–.4	.4
Kentucky	10,718	105	9,202	108	42,402	105	38,383	106	10.5	–1.1
Mississippi	1,440	155	1,654	150	6,043	155	5,428	151	11.3	2.4
Tennessee	6,866	113	5,353	114	24,596	113	23,649	115	4.0	–1.2
West South Central	**33,485**	**128**	**33,825**	**132**	**135,746**	**127**	**141,043**	**129**	**–3.8**	**–1.9**
Arkansas	2,968	158	3,411	158	11,879	164	14,736	150	–19.4	9.1
Louisiana	3,132	149	2,888	150	13,167	148	12,504	151	5.3	–2.3
Oklahoma	4,275	91	4,588	95	18,378	92	19,571	98	–6.1	–5.9
Texas	23,111	129	22,938	133	92,323	126	94,232	129	–2.0	–2.9
Mountain	**27,344**	**105**	**27,840**	**106**	**103,503**	**111**	**98,869**	**112**	**4.7**	**–1.2**
Arizona	4,735	137	3,757	140	16,788	142	15,027	144	11.7	–1.3
Colorado	4,113	95	4,507	97	16,675	101	16,416	103	1.6	–1.6
Montana	2,678	70	2,816	68	9,160	68	7,877	71	16.3	–3.1
Nevada	1,891	132	2,227	122	6,851	139	7,304	137	–6.2	1.9
New Mexico	3,809	127	4,399	134	15,775	134	15,003	143	5.1	–6.5
Utah	3,908	103	3,790	105	15,053	111	13,695	107	9.9	3.9
Wyoming	6,209	78	6,344	81	23,201	81	23,547	82	–1.5	–1.8
Pacific	**1,804**	**137**	**1,717**	**146**	**5,667**	**154**	**5,418**	**149**	**4.6**	**4.0**
Oregon	413	114	569	110	875	114	838	107	4.5	6.4
Washington	1,391	145	1,149	165	4,792	163	4,580	157	4.6	3.6
U.S. Total	**226,284**	**126**	**219,656**	**128**	**880,638**	**127**	**862,701**	**129**	**2.1**	**–1.2**

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

Table 24. Quantity and Price of Contract Coal Receipts at Electric Utility Plants by Census Division and State

Census Division and State	October-December 1997		October-December 1996		Year to Date					
					1997		1996		Percent Change	
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	**1,470**	**169**	**1,488**	**169**	**5,879**	**171**	**5,979**	**170**	**–1.7**	**1.1**
Connecticut	179	190	218	192	870	192	903	191	–3.6	.4
Massachusetts	1,035	166	1,060	166	4,024	169	4,136	167	–2.7	1.0
New Hampshire	257	165	210	161	985	163	939	158	4.9	2.6
Mid Atlantic	**10,931**	**142**	**9,720**	**143**	**41,681**	**142**	**37,870**	**146**	**10.1**	**–2.4**
New Jersey	509	175	755	174	1,882	177	2,302	176	–18.3	.5
New York	2,234	141	1,800	142	7,354	140	6,952	142	5.8	–1.2
Pennsylvania	8,188	140	7,165	140	32,445	141	28,616	144	13.4	–2.4
East North Central	**35,516**	**139**	**36,388**	**143**	**145,612**	**139**	**145,214**	**142**	**.3**	**–2.3**
Illinois	7,863	158	8,935	166	33,873	164	32,176	170	5.3	–3.5
Indiana	8,052	126	7,650	126	31,895	127	35,620	128	–10.5	–.9
Michigan	6,355	139	6,303	148	25,194	138	23,546	144	7.0	–4.2
Ohio	8,669	149	9,193	147	35,500	143	36,794	146	–3.5	–1.9
Wisconsin	4,577	102	4,308	103	19,149	103	17,077	104	12.1	–.3
West North Central	**27,275**	**90**	**26,521**	**91**	**107,437**	**92**	**108,819**	**93**	**–1.3**	**–.6**
Iowa	3,628	91	3,363	92	13,739	94	15,002	95	–8.4	–.6
Kansas	4,275	96	4,126	100	16,606	103	16,670	101	–.4	1.6
Minnesota	4,427	102	4,019	101	17,156	109	15,740	106	9.0	2.7
Missouri	6,220	93	7,033	95	26,850	94	29,310	95	–8.4	–1.6
Nebraska	1,991	56	1,508	75	8,276	56	7,208	75	14.8	–25.4
North Dakota	6,198	81	6,258	74	22,876	78	23,582	74	–3.0	5.5
South Dakota	536	90	213	102	1,934	92	1,307	94	48.0	–1.8
South Atlantic	**27,128**	**148**	**25,285**	**151**	**108,150**	**148**	**96,432**	**154**	**12.2**	**–3.3**
Delaware	357	152	499	162	1,482	158	1,473	161	.6	–2.0
Florida	4,818	174	4,166	180	17,843	179	17,045	186	4.7	–3.7
Georgia	4,051	167	3,130	171	15,532	166	12,269	170	26.6	–2.2
Maryland	1,919	148	1,623	147	7,464	148	6,741	147	10.7	.6
North Carolina	4,317	144	4,508	151	19,208	146	17,706	152	8.5	–3.4
South Carolina	2,434	144	2,296	149	8,776	145	7,669	150	14.4	–3.1
Virginia	2,156	140	2,335	140	8,661	139	8,441	141	2.6	–1.4
West Virginia	7,076	125	6,726	127	29,184	125	25,089	131	16.3	–4.8
East South Central	**18,868**	**127**	**18,152**	**130**	**76,286**	**127**	**73,333**	**130**	**4.0**	**–2.0**
Alabama	6,372	159	6,002	162	25,070	160	24,365	161	2.9	–.8
Kentucky	6,407	103	6,618	107	27,825	104	27,256	107	2.1	–2.8
Mississippi	1,221	156	1,496	152	5,087	156	4,734	154	7.5	1.7
Tennessee	4,868	112	4,037	114	18,302	112	16,978	116	7.8	–3.5
West South Central	**31,415**	**128**	**31,795**	**132**	**128,071**	**127**	**133,850**	**129**	**–4.3**	**–2.0**
Arkansas	2,850	158	3,198	160	11,079	167	14,131	152	–21.6	10.4
Louisiana	3,132	149	2,888	150	13,167	148	12,504	151	5.3	–2.3
Oklahoma	4,211	91	4,588	95	18,303	92	19,341	98	–5.4	–6.2
Texas	21,222	128	21,121	134	85,523	126	87,874	130	–2.7	–3.1
Mountain	**25,419**	**106**	**25,827**	**108**	**97,136**	**111**	**94,141**	**113**	**3.2**	**–1.6**
Arizona	3,998	141	2,993	151	14,313	147	13,059	150	9.6	–2.5
Colorado	3,663	97	3,775	101	15,146	103	14,980	105	1.1	–1.7
Montana	2,678	70	2,816	68	9,160	68	7,877	71	16.3	–3.1
Nevada	1,534	138	1,879	126	6,151	142	6,912	139	–11.0	2.7
New Mexico	3,809	127	4,399	134	15,775	134	15,003	143	5.1	–6.5
Utah	3,780	103	3,622	107	14,187	113	13,057	110	8.7	2.8
Wyoming	5,956	79	6,344	81	22,404	81	23,254	82	–3.7	–1.6
Pacific	**1,284**	**147**	**1,056**	**168**	**4,549**	**165**	**4,472**	**157**	**1.7**	**4.8**
Washington	1,284	147	1,056	168	4,549	165	4,472	157	1.7	4.8
U.S. Total	**179,306**	**128**	**176,232**	**130**	**714,801**	**129**	**700,110**	**131**	**2.1**	**–1.7**

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

Census Division and State	October-December 1997		October-December 1996		Year to Date					
					1997		1996		Percent Change	
	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity (thousand short tons)	Price (cents per MM Btu)	Quantity	Price
New England	**329**	**172**	**267**	**179**	**1,236**	**170**	**969**	**174**	**27.6**	**–2.2**
Connecticut	14	172	28	185	82	175	28	185	192.9	–5.6
Massachusetts	156	174	72	186	521	176	556	179	–6.3	–1.4
New Hampshire	159	169	167	175	633	164	384	166	64.6	–1.0
Mid Atlantic	**3,049**	**121**	**3,666**	**130**	**12,473**	**124**	**13,196**	**126**	**–5.5**	**–2.0**
New Jersey	67	164	34	160	205	164	109	161	87.5	1.5
New York	194	152	373	145	923	159	943	148	–2.1	7.3
Pennsylvania	2,789	117	3,259	128	11,345	120	12,143	124	–6.6	–3.4
East North Central	**17,251**	**113**	**14,009**	**108**	**56,936**	**112**	**49,157**	**109**	**15.8**	**2.8**
Illinois	2,083	102	1,268	121	6,877	115	5,266	123	30.6	–6.5
Indiana	6,215	106	4,423	97	21,575	103	16,059	101	34.3	1.6
Michigan	3,133	131	2,491	129	6,937	132	6,631	123	4.6	7.6
Ohio	4,921	110	4,070	105	17,287	109	15,474	105	11.7	3.7
Wisconsin	899	134	1,758	106	4,261	130	5,727	112	–25.6	15.4
West North Central	**3,443**	**89**	**3,111**	**84**	**12,711**	**87**	**12,876**	**86**	**–1.3**	**1.8**
Iowa	662	90	587	93	2,936	91	3,114	91	–5.7	.3
Kansas	–	–	–	–	66	74	1,280	72	–94.9	2.4
Minnesota	86	125	148	103	435	120	1,004	111	–56.7	8.4
Missouri	2,217	91	1,290	98	6,703	91	4,408	95	52.1	–4.5
Nebraska	476	67	1,084	59	2,360	67	3,066	64	–23.0	4.2
North Dakota	1	55	1	64	210	80	3	65	NM	23.2
South Atlantic	**10,766**	**142**	**12,029**	**142**	**41,161**	**145**	**49,890**	**141**	**–17.5**	**3.1**
Delaware	5	152	48	160	200	153	272	151	–26.3	1.2
Florida	2,172	158	2,682	154	9,752	160	9,655	152	1.0	5.2
Georgia	3,195	147	3,106	145	12,813	148	16,601	147	–22.8	.3
Maryland	762	148	1,138	150	2,675	155	4,208	153	–36.4	1.3
North Carolina	2,068	133	2,231	143	6,943	133	6,940	140	*	–5.1
South Carolina	655	145	1,032	143	3,059	143	3,282	141	–6.8	2.0
Virginia	961	138	676	138	3,269	139	2,583	143	26.6	–3.0
West Virginia	948	109	1,115	102	2,449	108	6,349	99	–61.4	9.3
East South Central	**7,624**	**115**	**5,638**	**115**	**26,161**	**114**	**23,636**	**110**	**10.7**	**2.9**
Alabama	1,095	131	1,581	125	4,335	128	5,145	123	–15.7	4.4
Kentucky	4,311	109	2,584	108	14,577	106	11,126	103	31.0	2.7
Mississippi	219	150	158	135	956	147	693	134	37.9	9.8
Tennessee	1,998	118	1,316	114	6,293	117	6,672	111	–5.7	5.4
West South Central	**2,070**	**135**	**2,030**	**125**	**7,675**	**127**	**7,193**	**127**	**6.7**	*****
Arkansas	118	135	213	123	800	117	605	120	32.2	–1.9
Oklahoma	63	122	–	–	75	116	230	79	–67.4	46.4
Texas	1,889	135	1,817	125	6,800	128	6,358	129	6.9	–.8
Mountain	**1,925**	**97**	**2,013**	**88**	**6,367**	**99**	**4,728**	**89**	**34.7**	**11.0**
Arizona	738	112	763	95	2,475	117	1,968	104	25.8	12.0
Colorado	449	79	733	78	1,529	82	1,436	82	6.5	*
Nevada	357	108	348	106	699	114	393	106	78.1	8.2
Utah	128	105	169	59	866	88	638	58	35.7	52.3
Wyoming	253	65	–	–	797	72	293	71	172.0	1.7
Pacific	**520**	**115**	**661**	**114**	**1,118**	**116**	**946**	**111**	**18.2**	**4.3**
Oregon	413	114	569	110	875	114	838	107	4.5	6.4
Washington	107	122	93	136	243	124	108	142	124.7	–12.8
U.S. Total	**46,978**	**120**	**43,424**	**120**	**165,837**	**121**	**162,591**	**120**	**2.0**	**.7**

* For percentage calculations, the absolute value of the number is less than 0.05 percent.
NM Percent change calculation not meaningful as value is greater than 500.

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

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

Table 26. Average Cost of Coal Receipts at Electric Utility Plants by Census Division and State

(Dollars per Short Ton)

Census Division and State	October-December 1997	July-September 1997	October-December 1996	Year to Date		
				1997	1996	Percent Change
New England	**$43.42**	**$43.24**	**$43.62**	**$43.68**	**$43.55**	**0.3**
Connecticut	49.50	49.34	50.13	50.02	50.05	–.1
Massachusetts	42.36	42.36	42.20	42.72	42.64	.2
New Hampshire	43.64	42.49	43.64	42.62	42.23	.9
Mid Atlantic	**34.18**	**33.98**	**34.87**	**34.35**	**35.08**	**–2.1**
New Jersey	45.76	45.54	44.97	45.94	45.53	.9
New York	37.27	37.98	37.03	37.32	37.15	.4
Pennsylvania	32.90	32.76	33.66	33.24	34.06	–2.4
East North Central	**27.57**	**26.98**	**28.08**	**27.71**	**28.29**	**–2.1**
Illinois	28.53	28.26	31.28	30.39	32.14	–5.5
Indiana	24.43	24.48	23.72	24.43	24.67	–1.0
Michigan	28.87	28.52	30.28	28.92	29.34	–1.4
Ohio	32.09	30.54	32.17	31.44	32.31	–2.7
Wisconsin	20.56	20.66	19.23	20.43	19.55	4.5
West North Central	**14.99**	**15.57**	**15.21**	**15.40**	**15.53**	**–.8**
Iowa	15.68	17.41	15.97	16.23	16.30	–.4
Kansas	16.82	17.56	17.83	18.00	17.51	2.8
Minnesota	18.25	19.80	17.90	19.47	18.99	2.5
Missouri	16.69	16.71	17.33	16.80	17.31	–2.9
Nebraska	9.94	9.80	11.67	10.06	12.37	–18.7
North Dakota	10.52	10.12	9.76	10.20	9.72	4.9
South Dakota	15.77	16.00	18.31	15.99	16.94	–5.6
South Atlantic	**36.05**	**36.31**	**36.42**	**36.34**	**36.68**	**–.9**
Delaware	40.04	40.23	42.12	41.05	41.51	–1.1
Florida	41.09	41.27	41.21	41.82	42.40	–1.4
Georgia	37.40	37.13	37.21	37.28	36.54	2.0
Maryland	38.09	38.31	38.03	38.75	38.49	.7
North Carolina	34.75	35.73	36.70	35.35	36.87	–4.1
South Carolina	37.07	37.13	37.51	37.21	37.54	–.9
Virginia	34.92	35.15	35.03	34.98	35.73	–2.1
West Virginia	30.67	30.66	30.45	30.68	30.93	–.8
East South Central	**28.57**	**28.52**	**29.50**	**28.70**	**29.35**	**–2.2**
Alabama	35.31	35.83	36.11	35.88	36.39	–1.4
Kentucky	24.51	23.94	24.89	24.17	24.43	–1.1
Mississippi	32.15	33.08	31.65	32.44	33.31	–2.6
Tennessee	26.85	26.67	27.39	27.00	27.64	–2.3
West South Central	**19.94**	**18.82**	**20.50**	**19.66**	**20.13**	**–2.3**
Arkansas	27.44	28.27	27.43	28.56	26.15	9.2
Louisiana	24.31	23.05	24.61	23.97	24.74	–3.1
Oklahoma	15.68	15.66	16.24	15.87	16.79	–5.5
Texas	19.17	17.65	19.81	18.66	19.26	–3.1
Mountain	**20.46**	**21.66**	**20.64**	**21.52**	**21.82**	**–1.4**
Arizona	27.75	28.71	28.54	28.95	29.55	–2.0
Colorado	18.63	19.78	19.09	19.94	20.24	–1.5
Montana	11.83	11.29	11.47	11.52	11.90	–3.2
Nevada	29.81	31.55	27.55	31.10	30.44	2.2
New Mexico	22.90	24.88	24.39	24.23	26.04	–7.0
Utah	23.29	26.51	23.98	25.22	24.66	2.3
Wyoming	13.71	14.62	14.10	14.16	14.30	–1.0
Pacific	**22.44**	**22.23**	**24.12**	**25.19**	**23.96**	**5.1**
Oregon	19.89	20.01	19.19	19.95	18.81	6.1
Washington	23.20	22.71	26.55	26.15	24.91	5.0
U.S. Total	**25.91**	**25.72**	**26.31**	**26.16**	**26.45**	**–1.1**

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

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

Table 27. Coal Receipts and Prices by Sulfur Content at Electric Utility Plants, by State of Origin and Imports, January-December 1997

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	8,277	201	6,392	161	1,364	142	16,032	180	0.92	–4.7	1.6	0.2
Arizona	11,045	125	–	–	–	–	11,045	125	.49	.7	1.6	1.6
Colorado	21,196	125	449	91	–	–	21,645	124	.41	–.3	.3	–.3
Illinois	45	132	13,963	146	21,174	129	35,182	136	2.04	–17.0	–1.0	.6
Indiana	1,813	143	10,311	121	18,173	99	30,298	109	2.08	26.9	1.3	–4.9
Kansas	–	–	–	–	304	111	304	111	3.38	97.2	–16.1	57.5
Kentucky	15,666	157	72,726	143	33,664	107	122,056	136	1.37	4.0	–1.7	1.4
Louisiana	–	–	1,881	133	1,689	145	3,570	138	1.60	11.1	.2	16.3
Maryland	7	155	3,605	124	1	108	3,613	124	1.32	15.0	–9.8	7.6
Missouri	–	–	–	–	251	109	251	109	3.31	–54.4	2.2	–1.9
Montana	19,269	158	19,063	90	–	–	38,332	125	.60	8.2	–1.2	5.5
New Mexico	6,734	171	19,508	135	–	–	26,243	145	.75	9.0	–5.1	.2
North Dakota	–	–	22,098	78	881	83	22,979	78	1.17	–2.4	5.6	7.3
Ohio	–	–	227	118	25,206	128	25,433	128	2.98	2.7	–1.4	–1.1
Oklahoma	15	225	–	–	117	109	132	121	2.42	25.3	10.5	1.4
Pennsylvania	1,933	152	36,671	135	14,624	117	53,228	131	1.45	12.8	–1.8	1.3
Tennessee	107	130	2,942	126	–	–	3,049	126	.91	4.7	2.2	–7.5
Texas	–	–	27,955	102	22,268	89	50,224	96	1.66	–2.1	–3.9	6.6
Utah	17,398	115	995	115	–	–	18,393	115	.42	–1.6	2.4	5.2
Virginia	4,943	164	9,989	138	340	125	15,271	146	.82	5.5	–.9	.5
Washington	*	121	4,427	166	*	121	4,427	166	.81	–1.0	5.5	–10.5
West Virginia	35,235	153	44,844	138	24,055	129	104,135	141	1.19	2.3	–.4	.8
Wyoming	251,354	115	18,572	107	–	–	269,926	115	.40	.4	–2.0	.3
Imported	**4,174**	**162**	**697**	**142**	**–**	**–**	**4,871**	**160**	**.57**	**3.7**	**–1.2**	**8.0**
Total	**399,211**	**129**	**317,318**	**131**	**164,110**	**116**	**880,638**	**127**	**1.08**	**2.1**	**–1.2**	**1.2**

* 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 28. Destination of Coal Received at Electric Utility Plants by Origin, January-December 1997, 1996

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)	
	1997	1996	1997	1996	1997	1996	1997	1996
Alabama	**29,405**	**29,510**	**85.3**	**82.6**	**0.99**	**1.05**	**155**	**154**
Alabama	15,494	16,456	93.8	93.9	.90	.90	181	179
Illinois	1,557	1,723	13.0	–	1.19	1.65	132	125
Kentucky	3,393	4,043	67.0	59.4	1.93	1.77	115	116
Montana	25	–	–	–	.47	–	110	–
Ohio	–	93	–	–	–	3.43	–	119
Pennsylvania	85	333	100.0	100.0	1.85	1.75	113	112
Tennessee	894	673	100.0	100.0	.70	.70	133	133
Virginia	–	1	–	100.0	–	.51	–	131
West Virginia	2,756	2,541	68.8	74.9	1.26	1.12	133	130
Wyoming	5,202	3,646	99.7	99.0	.30	.32	113	113
Arizona	**16,788**	**15,027**	**85.3**	**86.9**	**.54**	**.54**	**142**	**144**
Arizona	6,646	6,499	100.0	93.8	.50	.49	119	117
Colorado	–	207	–	–	–	.35	–	116
New Mexico	9,959	8,321	77.0	83.6	.56	.58	161	169
Wyoming	183	–	–	–	.40	–	108	–
Arkansas	**11,879**	**14,736**	**93.3**	**95.9**	**.37**	**.38**	**164**	**150**
Wyoming	11,879	14,736	93.3	95.9	.37	.38	164	150
Colorado	**16,675**	**16,416**	**90.8**	**91.3**	**.38**	**.39**	**101**	**103**
Colorado	10,500	10,341	90.0	90.6	.41	.42	108	111
Montana	–	3	–	–	–	.23	–	96
Wyoming	6,176	6,072	92.3	92.5	.34	.35	87	85
Connecticut	**952**	**931**	**91.4**	**97.0**	**.41**	**.42**	**190**	**191**
Kentucky	760	903	99.3	100.0	.39	.41	192	191
Virginia	4	–	100.0	–	.52	–	184	–
West Virginia	153	–	72.6	–	.47	–	188	–
Imported coal Venezuela	35	28	–	–	.48	.46	170	185
Delaware	**1,682**	**1,745**	**88.1**	**84.4**	**.76**	**.78**	**157**	**159**
Maryland	161	277	100.0	90.9	1.11	1.04	148	150
Pennsylvania	501	391	80.2	51.3	1.03	1.08	142	146
Virginia	188	–	95.3	–	.65	–	157	–
West Virginia	833	1,077	88.9	94.8	.56	.59	169	167
Florida	**27,595**	**26,700**	**64.7**	**63.8**	**1.31**	**1.27**	**172**	**174**
Alabama	362	–	–	–	1.70	–	177	–
Colorado	14	139	–	100.0	.54	.37	183	191
Illinois	6,015	6,392	79.1	60.6	1.90	1.90	178	182
Indiana	5	–	–	–	.62	–	164	–
Kentucky	14,539	14,431	61.1	59.9	1.28	1.21	173	172
Virginia	957	856	91.2	100.0	.75	.58	204	213
West Virginia	2,546	1,768	47.3	57.3	1.16	1.25	170	162
Wyoming	971	591	–	–	.49	.24	141	142
Imported coal Colombia	1,385	1,417	100.0	100.0	.66	.56	150	153
Imported coal Indonesia	741	808	100.0	100.0	.37	.30	163	150
Imported coal Venezuela	59	298	–	100.0	1.13	.79	130	232
Georgia	**28,346**	**28,870**	**54.8**	**42.5**	**.71**	**.72**	**159**	**158**
Alabama	50	373	–	–	1.51	1.53	135	134
Illinois	1,033	1,203	95.5	–	.95	.99	147	147
Kentucky	14,728	14,059	65.7	63.8	.79	.80	155	152
Virginia	2,199	2,069	60.1	47.8	.72	.69	157	158
West Virginia	4,688	4,090	75.8	56.3	.58	.57	181	192
Wyoming	5,369	6,866	–	–	.45	.47	150	151
Imported coal Venezuela	279	210	–	–	1.07	.89	135	153
Illinois	**40,750**	**37,441**	**83.1**	**85.9**	**1.20**	**1.18**	**155**	**163**
Colorado	1,135	803	75.8	96.1	.45	.46	136	134
Illinois	14,315	13,365	83.6	87.3	2.46	2.41	124	126
Indiana	1,708	1,173	53.1	2.0	.88	1.10	142	140
Kentucky	226	391	15.9	91.8	.51	.45	171	172
Montana	1,572	2,162	100.0	100.0	.35	.37	255	250
Utah	1,377	1,846	72.2	29.8	.38	.39	173	137
West Virginia	47	–	–	–	.72	–	146	–
Wyoming	20,370	17,701	86.1	94.0	.37	.35	175	192
Indiana	**53,470**	**51,680**	**59.7**	**68.9**	**1.54**	**1.54**	**117**	**119**
Illinois	4,788	9,007	80.4	79.4	2.08	2.10	131	134
Indiana	25,608	18,893	39.9	46.4	2.10	2.19	108	107
Kentucky	952	750	75.3	84.7	1.27	1.38	125	130
Montana	1,245	869	100.0	100.0	.35	.37	254	243
Ohio	1,206	1,083	–	–	3.49	3.65	103	104
Pennsylvania	707	586	–	–	1.72	1.79	107	109
Virginia	975	950	96.8	100.0	.53	.53	158	155

See footnotes at end of table.

Table 28. Destination of Coal Received at Electric Utility Plants by Origin, January-December 1997, 1996 (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)	
	1997	1996	1997	1996	1997	1996	1997	1996
Indiana								
West Virginia	1,257	1,049	37.9	51.8	0.96	1.30	138	137
Wyoming	16,731	18,491	86.3	90.4	.34	.36	113	115
Iowa	**16,675**	**18,116**	**82.4**	**82.8**	**.52**	**.51**	**94**	**94**
Colorado	467	497	91.3	95.6	.46	.56	135	130
Illinois	288	164	52.1	51.3	2.19	1.75	123	115
Indiana	218	323	77.3	–	1.31	1.70	123	117
Kentucky	64	159	–	100.0	2.23	2.29	127	108
Montana	78	4	–	–	.36	.43	148	111
West Virginia	1	–	–	–	2.08	–	162	–
Wyoming	15,559	16,970	83.5	84.2	.46	.44	90	92
Kansas	**16,671**	**17,950**	**99.6**	**92.9**	**.55**	**.56**	**103**	**99**
Colorado	1,509	1,467	100.0	100.0	.38	.42	131	122
Illinois	129	207	100.0	86.9	2.70	2.50	107	174
Kansas	246	86	100.0	100.0	3.52	1.86	107	131
Missouri	154	414	100.0	74.9	3.78	3.57	101	101
Montana	104	–	100.0	–	.41	–	95	–
Oklahoma	26	–	62.9	–	2.96	–	117	–
Wyoming	14,503	15,776	99.6	92.7	.43	.43	99	95
Kentucky	**42,402**	**38,383**	**65.6**	**71.0**	**2.11**	**2.14**	**105**	**106**
Colorado	2,728	2,434	96.1	81.8	.44	.40	126	126
Illinois	504	75	21.1	42.4	2.04	2.47	104	98
Indiana	2,430	2,950	98.9	97.3	2.85	2.84	93	89
Kentucky	27,748	26,369	62.3	69.9	2.43	2.46	102	104
Ohio	788	367	49.8	36.0	3.59	3.29	91	94
Pennsylvania	124	396	76.2	5.0	1.67	1.25	109	102
Utah	331	44	90.0	100.0	.48	.38	128	130
West Virginia	6,607	5,629	63.9	66.2	1.37	1.16	112	113
Wyoming	1,144	119	34.5	–	.50	.77	101	95
Louisiana	**13,167**	**12,504**	**100.0**	**100.0**	**.78**	**.70**	**148**	**151**
Louisiana	3,570	3,213	100.0	100.0	1.60	1.38	138	138
Wyoming	9,597	9,291	100.0	100.0	.54	.51	151	155
Maryland	**10,139**	**10,949**	**73.6**	**61.6**	**.88**	**.86**	**150**	**149**
Kentucky	601	717	84.2	70.6	.63	.57	152	152
Maryland	768	903	87.9	72.8	1.11	1.08	175	167
Pennsylvania	1,801	1,435	40.2	52.5	1.12	1.10	152	155
West Virginia	6,969	7,894	79.8	61.1	.81	.82	146	146
Massachusetts	**4,545**	**4,693**	**88.5**	**88.1**	**.57**	**.56**	**170**	**169**
Kentucky	717	457	90.4	68.4	.52	.51	179	182
Pennsylvania	280	225	88.0	84.4	1.04	1.04	166	159
Virginia	–	2	–	–	–	.56	–	212
West Virginia	2,088	2,243	80.0	86.4	.56	.56	171	174
Imported coal Colombia	1,078	630	100.0	88.8	.52	.48	166	162
Imported coal Venezuela	383	1,135	100.0	100.0	.52	.53	163	159
Michigan	**32,131**	**30,177**	**78.4**	**78.0**	**.64**	**.60**	**137**	**140**
Colorado	518	606	98.0	100.0	.48	.45	134	133
Illinois	–	29	–	–	–	.78	–	147
Indiana	162	176	100.0	100.0	2.06	1.56	136	134
Kentucky	3,993	4,011	56.4	79.4	.73	.74	152	164
Montana	9,431	10,155	90.2	92.8	.41	.41	151	149
Ohio	79	37	77.6	100.0	2.60	2.47	156	143
Pennsylvania	2,701	1,932	82.9	80.9	1.16	1.21	122	119
Virginia	–	7	–	100.0	–	.72	–	220
West Virginia	5,757	5,025	64.4	70.4	.89	.87	153	153
Wyoming	9,490	8,199	81.7	61.1	.34	.29	106	107
Minnesota	**17,591**	**16,744**	**97.5**	**94.0**	**.51**	**.50**	**109**	**107**
Illinois	114	69	100.0	100.0	1.13	1.24	163	163
Indiana	5	–	–	–	1.25	–	149	–
Montana	9,592	8,999	95.5	94.7	.65	.65	110	107
New Mexico	–	1	–	–	–	.59	–	70
Pennsylvania	–	23	–	–	–	1.85	–	151
West Virginia	–	*	–	–	–	1.23	–	125
Wyoming	7,880	7,652	100.0	93.4	.31	.32	108	105
Mississippi	**6,043**	**5,428**	**84.2**	**87.2**	**.65**	**.84**	**155**	**151**
Alabama	126	–	–	–	.83	–	146	–
Colorado	36	519	–	97.8	.42	.40	155	159
Illinois	1,149	1,703	87.7	73.3	1.00	1.39	138	131
Kentucky	1,225	1,029	70.0	89.8	.80	.82	192	196
Montana	3,221	2,163	100.0	94.9	.42	.42	145	141
Wyoming	285	13	–	–	.53	.50	134	129

See footnotes at end of table.

Table 28. Destination of Coal Received at Electric Utility Plants by Origin, January-December 1997, 1996 (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)	
	1997	1996	1997	1996	1997	1996	1997	1996
Missouri	**33,553**	**33,718**	**80.0**	**86.9**	**0.52**	**0.64**	**93**	**95**
Illinois	2,652	3,924	78.2	92.6	2.12	2.33	130	135
Indiana	–	87	–	–	–	1.20	–	138
Kansas	58	68	93.5	100.0	2.84	2.54	128	133
Kentucky	74	52	100.0	100.0	1.33	.68	181	210
Missouri	97	136	95.9	98.8	2.57	2.79	122	124
Oklahoma	12	–	100.0	–	2.87	–	128	–
Utah	11	–	100.0	–	.47	–	145	–
Wyoming	30,649	29,450	80.0	86.3	.32	.32	89	88
Montana	**9,160**	**7,877**	**100.0**	**100.0**	**.86**	**.81**	**68**	**71**
Montana	8,650	7,442	100.0	100.0	.89	.84	69	71
Wyoming	510	435	100.0	100.0	.27	.29	55	57
Nebraska	**10,636**	**10,275**	**77.8**	**70.2**	**.37**	**.40**	**59**	**72**
Montana	–	2	–	–	–	.43	–	104
Wyoming	10,636	10,272	77.8	70.2	.37	.40	59	72
Nevada	**6,851**	**7,304**	**89.8**	**94.6**	**.45**	**.44**	**139**	**137**
Arizona	4,399	4,470	100.0	100.0	.46	.46	134	131
Colorado	48	286	100.0	100.0	.49	.43	201	124
Utah	2,387	2,343	71.4	84.3	.43	.39	147	144
Wyoming	17	206	–	87.4	.48	.52	95	180
New Hampshire	**1,618**	**1,324**	**60.9**	**71.0**	**1.10**	**1.19**	**163**	**161**
Kentucky	–	15	–	–	–	.70	–	194
Pennsylvania	885	759	79.9	87.5	1.10	1.16	166	162
Virginia	10	16	–	100.0	1.06	.52	212	200
West Virginia	417	379	66.4	68.2	1.48	1.57	155	150
Imported coal Colombia	35	32	–	–	.48	.54	160	162
Imported coal Indonesia	41	26	–	–	.40	.58	191	162
Imported coal Venezuela	229	96	–	–	.55	.43	161	181
New Jersey	**2,087**	**2,412**	**90.2**	**95.5**	**.95**	**1.04**	**176**	**175**
Kentucky	106	173	100.0	95.4	.50	.51	174	178
Virginia	880	636	91.5	96.0	.57	.55	175	182
West Virginia	1,101	1,603	88.1	95.2	1.33	1.32	176	172
New Mexico	**15,775**	**15,003**	**100.0**	**100.0**	**.90**	**.87**	**134**	**143**
New Mexico	15,775	15,003	100.0	100.0	.90	.87	134	143
New York	**8,277**	**7,896**	**88.8**	**88.1**	**1.38**	**1.38**	**142**	**143**
Kentucky	789	1,191	74.1	88.5	.46	.49	187	192
Ohio	18	21	–	–	2.93	3.36	125	122
Pennsylvania	2,745	3,144	88.3	81.7	1.32	1.38	136	132
West Virginia	4,228	3,539	93.0	94.1	1.68	1.67	135	136
Imported coal Colombia	80	–	77.9	–	.48	–	170	–
Imported coal Venezuela	417	–	84.3	–	.49	–	173	–
North Carolina	**26,151**	**24,646**	**73.5**	**71.8**	**.73**	**.72**	**143**	**148**
Kentucky	15,342	14,692	68.3	67.0	.79	.76	140	145
Virginia	595	1,343	–	62.3	.90	.86	129	128
West Virginia	10,174	8,611	85.7	81.5	.62	.63	148	158
Wyoming	40	–	–	–	.56	–	179	–
North Dakota	**23,087**	**23,586**	**99.1**	**100.0**	**1.17**	**1.09**	**78**	**74**
Montana	–	34	–	100.0	–	.37	–	67
North Dakota	22,979	23,552	99.6	100.0	1.17	1.09	78	74
Wyoming	107	–	–	–	.52	–	65	–
Ohio	**52,788**	**52,268**	**67.3**	**70.4**	**1.69**	**1.72**	**132**	**134**
Illinois	–	9	–	–	–	2.48	–	107
Indiana	2	14	–	–	1.92	2.07	103	107
Kentucky	8,590	8,502	62.7	68.4	.77	.81	131	135
Montana	42	25	–	–	.31	.30	149	150
Ohio	21,445	20,845	75.1	76.3	2.92	2.95	133	135
Pennsylvania	3,560	3,410	39.9	67.3	1.39	1.24	116	120
Virginia	470	–	94.0	–	.59	–	122	–
West Virginia	17,446	19,292	67.2	66.2	.83	.94	136	135
Wyoming	1,232	172	33.4	–	.28	.65	124	157
Oklahoma	**18,378**	**19,571**	**99.6**	**98.8**	**.35**	**.38**	**92**	**98**
Oklahoma	94	105	84.2	100.0	2.22	2.38	121	109
Wyoming	18,283	19,466	99.7	98.8	.34	.37	92	98
Oregon	**875**	**838**	–	–	**.38**	**.30**	**114**	**107**
Wyoming	875	838	–	–	.38	.30	114	107
Pennsylvania	**43,790**	**40,759**	**74.1**	**70.2**	**1.74**	**1.70**	**135**	**138**
Maryland	14	–	–	–	.89	–	132	–
Ohio	310	732	100.0	89.5	3.03	2.97	169	166
Pennsylvania	34,352	31,811	68.7	63.7	1.55	1.51	131	135
West Virginia	9,113	8,216	93.6	93.7	2.39	2.32	151	150

See footnotes at end of table.

Table 28. Destination of Coal Received at Electric Utility Plants by Origin, January-December 1997, 1996 (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)	
	1997	1996	1997	1996	1997	1996	1997	1996
South Carolina	**11,835**	**10,951**	**74.2**	**70.0**	**0.93**	**0.95**	**145**	**147**
Kentucky	10,204	9,561	72.0	68.0	.90	.91	144	146
Tennessee	392	147	91.7	12.4	1.17	1.23	151	148
Virginia	1,109	1,243	96.5	92.7	1.07	1.20	152	154
West Virginia	130	–	–	–	1.25	–	149	–
South Dakota	**1,934**	**1,307**	**100.0**	**100.0**	**.72**	**.57**	**92**	**94**
Montana	1,934	1,307	100.0	100.0	.72	.57	92	94
Tennessee	**24,596**	**23,649**	**74.4**	**71.8**	**1.59**	**1.55**	**113**	**115**
Colorado	856	1,020	99.2	–	.44	.44	114	108
Illinois	1,918	3,756	51.1	47.2	1.83	1.60	109	114
Indiana	–	122	–	–	–	1.10	–	117
Kentucky	15,049	12,919	71.1	79.0	1.88	1.90	113	112
Pennsylvania	804	360	93.3	100.0	1.82	1.62	111	113
Tennessee	1,763	2,092	93.5	97.6	.97	1.06	117	119
Utah	1,145	1,860	98.0	68.9	.47	.40	121	122
Virginia	1,688	1,331	91.5	99.1	1.34	1.34	127	124
West Virginia	–	11	–	–	–	3.26	–	101
Wyoming	1,373	178	51.9	–	.44	.66	87	107
Texas	**92,323**	**94,232**	**92.6**	**93.3**	**1.01**	**.95**	**126**	**129**
Colorado	1,517	1,835	–	–	.37	.37	135	134
Texas	50,224	51,322	100.0	100.0	1.66	1.56	96	100
Wyoming	40,483	41,076	87.2	89.0	.43	.42	153	157
Imported coal Colombia	99	–	–	–	.32	–	176	–
Utah	**15,053**	**13,695**	**94.2**	**95.3**	**.42**	**.41**	**111**	**107**
Colorado	1,960	1,276	90.6	100.0	.40	.38	181	179
Utah	13,070	12,419	95.0	94.9	.42	.41	102	100
Wyoming	22	–	–	–	.27	–	128	–
Virginia	**11,930**	**11,024**	**72.6**	**76.6**	**.80**	**.78**	**139**	**142**
Kentucky	2,872	2,792	48.4	64.8	.92	.87	145	147
Maryland	30	12	–	–	1.35	1.32	152	149
Virginia	6,197	6,024	78.8	79.3	.78	.77	135	138
West Virginia	2,831	2,195	84.3	84.5	.72	.71	144	147
Washington	**4,792**	**4,580**	**94.9**	**97.6**	**.77**	**.89**	**163**	**157**
Montana	355	90	34.6	–	.40	.33	126	135
Washington	4,427	4,472	100.0	100.0	.81	.91	166	157
Wyoming	–	*	–	–	–	.30	–	109
Imported coal Canada	10	18	–	–	.42	.45	173	175
West Virginia	**31,633**	**31,438**	**92.3**	**79.8**	**1.57**	**1.56**	**124**	**125**
Kentucky	–	161	–	78.1	–	.76	–	181
Maryland	2,640	1,950	96.5	73.7	1.40	1.33	107	122
Ohio	1,586	1,580	100.0	91.7	3.10	3.28	86	77
Pennsylvania	2,440	1,082	85.4	69.7	1.17	1.26	125	131
West Virginia	24,967	26,665	92.0	80.0	1.53	1.49	128	127
Wisconsin	**23,410**	**22,804**	**81.8**	**74.9**	**.54**	**.50**	**109**	**106**
Colorado	357	292	–	13.2	.47	.44	136	134
Illinois	719	756	–	–	.85	.87	133	129
Indiana	160	142	–	–	1.22	1.22	136	135
Kentucky	83	34	–	–	.69	.59	174	179
Montana	2,082	2,162	99.6	96.0	.67	.60	107	105
New Mexico	508	744	100.0	100.0	.46	.45	156	152
Pennsylvania	2,244	1,317	48.4	60.6	1.17	1.23	146	145
Utah	72	186	–	–	.44	.39	164	161
West Virginia	24	–	–	–	.53	–	147	–
Wyoming	17,160	17,171	90.2	78.2	.37	.37	96	95
Wyoming	**23,201**	**23,547**	**96.6**	**98.8**	**.61**	**.60**	**81**	**82**
Wyoming	23,201	23,547	96.6	98.8	.61	.60	81	82
U.S. Total	**880,638**	**862,701**	**81.2**	**81.2**	**1.08**	**1.07**	**127**	**129**

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

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

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

Table 29. Origin of Coal Received at Electric Utility Plants by Destination, January-December 1997, 1996

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)	
	1997	1996	1997	1996	1997	1996	1997	1996
Alabama	**16,032**	**16,829**	**90.6**	**91.8**	**0.92**	**0.92**	**180**	**178**
Alabama	15,494	16,456	93.8	93.9	.90	.90	181	179
Florida	362	–	–	–	1.70	–	177	–
Georgia	50	373	–	–	1.51	1.53	135	134
Mississippi	126	–	–	–	.83	–	146	–
Arizona	**11,045**	**10,969**	**100.0**	**96.4**	**.49**	**.48**	**125**	**123**
Arizona	6,646	6,499	100.0	93.8	.50	.49	119	117
Nevada	4,399	4,470	100.0	100.0	.46	.46	134	131
Colorado	**21,645**	**21,720**	**83.4**	**77.9**	**.41**	**.42**	**124**	**123**
Arizona	–	207	–	–	–	.35	–	116
Colorado	10,500	10,341	90.0	90.6	.41	.42	108	111
Florida	14	139	–	100.0	.54	.37	183	191
Illinois	1,135	803	75.8	96.1	.45	.46	136	134
Iowa	467	497	91.3	95.6	.46	.56	135	130
Kansas	1,509	1,467	100.0	100.0	.38	.42	131	122
Kentucky	2,728	2,434	96.1	81.8	.44	.40	126	126
Michigan	518	606	98.0	100.0	.48	.45	134	133
Mississippi	36	519	–	97.8	.42	.40	155	159
Nevada	48	286	100.0	100.0	.49	.43	201	124
Tennessee	856	1,020	99.2	–	.44	.44	114	108
Texas	1,517	1,835	–	–	.37	.37	135	134
Utah	1,960	1,276	90.6	100.0	.40	.38	181	179
Wisconsin	357	292	–	13.2	.47	.44	136	134
Illinois	**35,182**	**42,382**	**74.8**	**70.1**	**2.04**	**2.03**	**136**	**137**
Alabama	1,557	1,723	13.0	–	1.19	1.65	132	125
Florida	6,015	6,392	79.1	60.6	1.90	1.90	178	182
Georgia	1,033	1,203	95.5	–	.95	.99	147	147
Illinois	14,315	13,365	83.6	87.3	2.46	2.41	124	126
Indiana	4,788	9,007	80.4	79.4	2.08	2.10	131	134
Iowa	288	164	52.1	51.3	2.19	1.75	123	115
Kansas	129	207	100.0	86.9	2.70	2.50	107	174
Kentucky	504	75	21.1	42.4	2.04	2.47	104	98
Michigan	–	29	–	–	–	.78	–	147
Minnesota	114	69	100.0	100.0	1.13	1.24	163	163
Mississippi	1,149	1,703	87.7	73.3	1.00	1.39	138	131
Missouri	2,652	3,924	78.2	92.6	2.12	2.33	130	135
Ohio	–	9	–	–	–	2.48	–	107
Tennessee	1,918	3,756	51.1	47.2	1.83	1.60	109	114
Wisconsin	719	756	–	–	.85	.87	133	129
Indiana	**30,298**	**23,880**	**45.8**	**49.5**	**2.08**	**2.19**	**109**	**107**
Florida	5	–	–	–	.62	–	164	–
Illinois	1,708	1,173	53.1	2.0	.88	1.10	142	140
Indiana	25,608	18,893	39.9	46.4	2.10	2.19	108	107
Iowa	218	323	77.3	–	1.31	1.70	123	117
Kentucky	2,430	2,950	98.9	97.3	2.85	2.84	93	89
Michigan	162	176	100.0	100.0	2.06	1.56	136	134
Minnesota	5	–	–	–	1.25	–	149	–
Missouri	–	87	–	–	–	1.20	–	138
Ohio	2	14	–	–	1.92	2.07	103	107
Tennessee	–	122	–	–	–	1.10	–	117
Wisconsin	160	142	–	–	1.22	1.22	136	135
Kansas	**304**	**154**	**98.8**	**100.0**	**3.38**	**2.15**	**111**	**132**
Kansas	246	86	100.0	100.0	3.52	1.86	107	131
Missouri	58	68	93.5	100.0	2.84	2.54	128	133
Kentucky	**122,056**	**117,412**	**65.5**	**69.0**	**1.37**	**1.35**	**136**	**138**
Alabama	3,393	4,043	67.0	59.4	1.93	1.77	115	116
Connecticut	760	903	99.3	100.0	.39	.41	192	191
Florida	14,539	14,431	61.1	59.9	1.28	1.21	173	172
Georgia	14,728	14,059	65.7	63.8	.79	.80	155	152
Illinois	226	391	15.9	91.8	.51	.45	171	172
Indiana	952	750	75.3	84.7	1.27	1.38	125	130
Iowa	64	159	–	100.0	2.23	2.29	127	108
Kentucky	27,748	26,369	62.3	69.9	2.43	2.46	102	104
Maryland	601	717	84.2	70.6	.63	.57	152	152
Massachusetts	717	457	90.4	68.4	.52	.51	179	182
Michigan	3,993	4,011	56.4	79.4	.73	.74	152	164
Mississippi	1,225	1,029	70.0	89.8	.80	.82	192	196
Missouri	74	52	100.0	100.0	1.33	.68	181	210
New Hampshire	–	15	–	–	–	.70	–	194

See footnotes at end of table.

Table 29. Origin of Coal Received at Electric Utility Plants by Destination, January-December 1997, 1996 (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)	
	1997	1996	1997	1996	1997	1996	1997	1996
Kentucky								
New Jersey	106	173	100.0	95.4	0.50	0.51	174	178
New York	789	1,191	74.1	88.5	.46	.49	187	192
North Carolina	15,342	14,692	68.3	67.0	.79	.76	140	145
Ohio	8,590	8,502	62.7	68.4	.77	.81	131	135
South Carolina	10,204	9,561	72.0	68.0	.90	.91	144	146
Tennessee	15,049	12,919	71.1	79.0	1.88	1.90	113	112
Virginia	2,872	2,792	48.4	64.8	.92	.87	145	147
West Virginia	–	161	–	78.1	–	.76	–	181
Wisconsin	83	34	–	–	.69	.59	174	179
Louisiana	**3,570**	**3,213**	**100.0**	**100.0**	**1.60**	**1.38**	**138**	**138**
Louisiana	3,570	3,213	100.0	100.0	1.60	1.38	138	138
Maryland	**3,613**	**3,143**	**93.7**	**74.7**	**1.32**	**1.23**	**124**	**138**
Delaware	161	277	100.0	90.9	1.11	1.04	148	150
Maryland	768	903	87.9	72.8	1.11	1.08	175	167
Pennsylvania	14	–	–	–	.89	–	132	–
Virginia	30	12	–	–	1.35	1.32	152	149
West Virginia	2,640	1,950	96.5	73.7	1.40	1.33	107	122
Missouri	**251**	**550**	**98.4**	**80.8**	**3.31**	**3.37**	**109**	**107**
Kansas	154	414	100.0	74.9	3.78	3.57	101	101
Missouri	97	136	95.9	98.8	2.57	2.79	122	124
Montana	**38,332**	**35,417**	**95.5**	**95.7**	**.60**	**.57**	**125**	**127**
Alabama	25	–	–	–	.47	–	110	–
Colorado	–	3	–	–	–	.23	–	96
Illinois	1,572	2,162	100.0	100.0	.35	.37	255	250
Indiana	1,245	869	100.0	100.0	.35	.37	254	243
Iowa	78	4	–	–	.36	.43	148	111
Kansas	104	–	100.0	–	.41	–	95	–
Michigan	9,431	10,155	90.2	92.8	.41	.41	151	149
Minnesota	9,592	8,999	95.5	94.7	.65	.65	110	107
Mississippi	3,221	2,163	100.0	94.9	.42	.42	145	141
Montana	8,650	7,442	100.0	100.0	.89	.84	69	71
Nebraska	–	2	–	–	–	.43	–	104
North Dakota	–	34	–	100.0	–	.37	–	67
Ohio	42	25	–	–	.31	.30	149	150
South Dakota	1,934	1,307	100.0	100.0	.72	.57	92	94
Washington	355	90	34.6	–	.40	.33	126	135
Wisconsin	2,082	2,162	99.6	96.0	.67	.60	107	105
New Mexico	**26,243**	**24,069**	**91.3**	**94.3**	**.75**	**.75**	**145**	**153**
Arizona	9,959	8,321	77.0	83.6	.56	.58	161	169
Minnesota	–	1	–	–	–	.59	–	70
New Mexico	15,775	15,003	100.0	100.0	.90	.87	134	143
Wisconsin	508	744	100.0	100.0	.46	.45	156	152
North Dakota	**22,979**	**23,552**	**99.6**	**100.0**	**1.17**	**1.09**	**78**	**74**
North Dakota	22,979	23,552	99.6	100.0	1.17	1.09	78	74
Ohio	**25,433**	**24,759**	**72.6**	**73.5**	**2.98**	**3.01**	**128**	**130**
Alabama	–	93	–	–	–	3.43	–	119
Indiana	1,206	1,083	–	–	3.49	3.65	103	104
Kentucky	788	367	49.8	36.0	3.59	3.29	91	94
Michigan	79	37	77.6	100.0	2.60	2.47	156	143
New York	18	21	–	–	2.93	3.36	125	122
Ohio	21,445	20,845	75.1	76.3	2.92	2.95	133	135
Pennsylvania	310	732	100.0	89.5	3.03	2.97	169	166
West Virginia	1,586	1,580	100.0	91.7	3.10	3.28	86	77
Oklahoma	**132**	**105**	**81.5**	**100.0**	**2.42**	**2.38**	**121**	**109**
Kansas	26	–	62.9	–	2.96	–	117	–
Missouri	12	–	100.0	–	2.87	–	128	–
Oklahoma	94	105	84.2	100.0	2.22	2.38	121	109
Pennsylvania	**53,228**	**47,203**	**67.4**	**65.2**	**1.45**	**1.43**	**131**	**133**
Alabama	85	333	100.0	100.0	1.85	1.75	113	112
Delaware	501	391	80.2	51.3	1.03	1.08	142	146
Indiana	707	586	–	–	1.72	1.79	107	109
Kentucky	124	396	76.2	5.0	1.67	1.25	109	102
Maryland	1,801	1,435	40.2	52.5	1.12	1.10	152	155
Massachusetts	280	225	88.0	84.4	1.04	1.04	166	159
Michigan	2,701	1,932	82.9	80.9	1.16	1.21	122	119
Minnesota	–	23	–	–	–	1.85	–	151
New Hampshire	885	759	79.9	87.5	1.10	1.16	166	162
New York	2,745	3,144	88.3	81.7	1.32	1.38	136	132

See footnotes at end of table.

Table 29. Origin of Coal Received at Electric Utility Plants by Destination, January-December 1997, 1996 (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)	
	1997	1996	1997	1996	1997	1996	1997	1996
Pennsylvania								
Ohio	3,560	3,410	39.9	67.3	1.39	1.24	116	120
Pennsylvania	34,352	31,811	68.7	63.7	1.55	1.51	131	135
Tennessee	804	360	93.3	100.0	1.82	1.62	111	113
West Virginia	2,440	1,082	85.4	69.7	1.17	1.26	125	131
Wisconsin	2,244	1,317	48.4	60.6	1.17	1.23	146	145
Tennessee	**3,049**	**2,911**	**95.2**	**93.8**	**.91**	**.99**	**126**	**123**
Alabama	894	673	100.0	100.0	.70	.70	133	133
South Carolina	392	147	91.7	12.4	1.17	1.23	151	148
Tennessee	1,763	2,092	93.5	97.6	.97	1.06	117	119
Texas	**50,224**	**51,322**	**100.0**	**100.0**	**1.66**	**1.56**	**96**	**100**
Texas	50,224	51,322	100.0	100.0	1.66	1.56	96	100
Utah	**18,393**	**18,697**	**89.9**	**83.6**	**.42**	**.40**	**115**	**112**
Illinois	1,377	1,846	72.2	29.8	.38	.39	173	137
Kentucky	331	44	90.0	100.0	.48	.38	128	130
Missouri	11	–	100.0	–	.47	–	145	–
Nevada	2,387	2,343	71.4	84.3	.43	.39	147	144
Tennessee	1,145	1,860	98.0	68.9	.47	.40	121	122
Utah	13,070	12,419	95.0	94.9	.42	.41	102	100
Wisconsin	72	186	–	–	.44	.39	164	161
Virginia	**15,271**	**14,479**	**79.0**	**79.5**	**.82**	**.82**	**146**	**148**
Alabama	–	1	–	100.0	–	.51	–	131
Connecticut	4	–	100.0	–	.52	–	184	–
Delaware	188	–	95.3	–	.65	–	157	–
Florida	957	856	91.2	100.0	.75	.58	204	213
Georgia	2,199	2,069	60.1	47.8	.72	.69	157	158
Indiana	975	950	96.8	100.0	.53	.53	158	155
Massachusetts	–	2	–	–	–	.56	–	212
Michigan	–	7	–	100.0	–	.72	–	220
New Hampshire	10	16	–	100.0	1.06	.52	212	200
New Jersey	880	636	91.5	96.0	.57	.55	175	182
North Carolina	595	1,343	–	62.3	.90	.86	129	128
Ohio	470	–	94.0	–	.59	–	122	–
South Carolina	1,109	1,243	96.5	92.7	1.07	1.20	152	154
Tennessee	1,688	1,331	91.5	99.1	1.34	1.34	127	124
Virginia	6,197	6,024	78.8	79.3	.78	.77	135	138
Washington	**4,427**	**4,472**	**100.0**	**100.0**	**.81**	**.91**	**166**	**157**
Washington	4,427	4,472	100.0	100.0	.81	.91	166	157
West Virginia	**104,135**	**101,828**	**79.4**	**75.2**	**1.19**	**1.19**	**141**	**142**
Alabama	2,756	2,541	68.8	74.9	1.26	1.12	133	130
Connecticut	153	–	72.6	–	.47	–	188	–
Delaware	833	1,077	88.9	94.8	.56	.59	169	167
Florida	2,546	1,768	47.3	57.3	1.16	1.25	170	162
Georgia	4,688	4,090	75.8	56.3	.58	.57	181	192
Illinois	47	–	–	–	.72	–	146	–
Indiana	1,257	1,049	37.9	51.8	.96	1.30	138	137
Iowa	1	–	–	–	2.08	–	162	–
Kentucky	6,607	5,629	63.9	66.2	1.37	1.16	112	113
Maryland	6,969	7,894	79.8	61.1	.81	.82	146	146
Massachusetts	2,088	2,243	80.0	86.4	.56	.56	171	174
Michigan	5,757	5,025	64.4	70.4	.89	.87	153	153
Minnesota	–	*	–	–	–	1.23	–	125
New Hampshire	417	379	66.4	68.2	1.48	1.57	155	150
New Jersey	1,101	1,603	88.1	95.2	1.33	1.32	176	172
New York	4,228	3,539	93.0	94.1	1.68	1.67	135	136
North Carolina	10,174	8,611	85.7	81.5	.62	.63	148	158
Ohio	17,446	19,292	67.2	66.2	.83	.94	136	135
Pennsylvania	9,113	8,216	93.6	93.7	2.39	2.32	151	150
South Carolina	130	–	–	–	1.25	–	149	–
Tennessee	–	11	–	–	–	3.26	–	101
Virginia	2,831	2,195	84.3	84.5	.72	.71	144	147
West Virginia	24,967	26,665	92.0	80.0	1.53	1.49	128	127
Wisconsin	24	–	–	–	.53	–	147	–
Wyoming	**269,926**	**268,935**	**86.3**	**86.6**	**.40**	**.40**	**115**	**117**
Alabama	5,202	3,646	99.7	99.0	.30	.32	113	113
Arizona	183	–	–	–	.40	–	108	–
Arkansas	11,879	14,736	93.3	95.9	.37	.38	164	150
Colorado	6,176	6,072	92.3	92.5	.34	.35	87	85
Florida	971	591	–	–	.49	.24	141	142

See footnotes at end of table.

Table 29. Origin of Coal Received at Electric Utility Plants by Destination, January-December 1997, 1996 (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)	
	1997	1996	1997	1996	1997	1996	1997	1996
Wyoming								
Georgia	5,369	6,866	–	–	0.45	0.47	150	151
Illinois	20,370	17,701	86.1	94.0	.37	.35	175	192
Indiana	16,731	18,491	86.3	90.4	.34	.36	113	115
Iowa	15,559	16,970	83.5	84.2	.46	.44	90	92
Kansas	14,503	15,776	99.6	92.7	.43	.43	99	95
Kentucky	1,144	119	34.5	–	.50	.77	101	95
Louisiana	9,597	9,291	100.0	100.0	.54	.51	151	155
Michigan	9,490	8,199	81.7	61.1	.34	.29	106	107
Minnesota	7,880	7,652	100.0	93.4	.31	.32	108	105
Mississippi	285	13	–	–	.53	.50	134	129
Missouri	30,649	29,450	80.0	86.3	.32	.32	89	88
Montana	510	435	100.0	100.0	.27	.29	55	57
Nebraska	10,636	10,272	77.8	70.2	.37	.40	59	72
Nevada	17	206	–	87.4	.48	.52	95	180
North Carolina	40	–	–	–	.56	–	179	–
North Dakota	107	–	–	–	.52	–	65	–
Ohio	1,232	172	33.4	–	.28	.65	124	157
Oklahoma	18,283	19,466	99.7	98.8	.34	.37	92	98
Oregon	875	838	–	–	.38	.30	114	107
Tennessee	1,373	178	51.9	–	.44	.66	87	107
Texas	40,483	41,076	87.2	89.0	.43	.42	153	157
Utah	22	–	–	–	.27	–	128	–
Washington	–	*	–	–	–	.30	–	109
Wisconsin	17,160	17,171	90.2	78.2	.37	.37	96	95
Wyoming	23,201	23,547	96.6	98.8	.61	.60	81	82
Imported Coal	**4,871**	**4,699**	**82.1**	**89.8**	**.57**	**.53**	**160**	**161**
Canada	**10**	**18**	–	–	**.42**	**.45**	**173**	**175**
Washington	10	18	–	–	.42	.45	173	175
Colombia	**2,678**	**2,080**	**94.3**	**95.1**	**.58**	**.54**	**158**	**156**
Florida	1,385	1,417	100.0	100.0	.66	.56	150	153
Massachusetts	1,078	630	100.0	88.8	.52	.48	166	162
New Hampshire	35	32	–	–	.48	.54	160	162
New York	80	–	77.9	–	.48	–	170	–
Texas	99	–	–	–	.32	–	176	–
Venezuela	**1,402**	**1,768**	**52.4**	**81.1**	**.65**	**.60**	**159**	**172**
Connecticut	35	28	–	–	.48	.46	170	185
Florida	59	298	–	100.0	1.13	.79	130	232
Georgia	279	210	–	–	1.07	.89	135	153
Massachusetts	383	1,135	100.0	100.0	.52	.53	163	159
New Hampshire	229	96	–	–	.55	.43	161	181
New York	417	–	84.3	–	.49	–	173	–
Indonesia	**782**	**834**	**94.8**	**96.9**	**.37**	**.32**	**165**	**150**
Florida	741	808	100.0	100.0	.37	.30	163	150
New Hampshire	41	26	–	–	.40	.58	191	162
U.S. Total	**880,638**	**862,701**	**81.2**	**81.2**	**1.08**	**1.07**	**127**	**129**

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

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

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

Table 30. Coal Receipts at Coke Plants

(Thousand Short Tons)

Coal Receipts	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
By State						
Alabama	620	783	759	2,966	3,213	–7.7
Illinois	w	w	w	w	w	w
Indiana	1,320	1,498	1,450	5,676	5,884	–3.5
Kentucky	w	w	w	w	w	w
Michigan	w	w	w	w	w	w
New York	w	w	w	w	w	w
Ohio	480	457	465	1,823	1,770	3.0
Pennsylvania	2,591	2,675	2,552	10,272	10,562	–2.8
Utah	w	w	w	w	w	w
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
By Plant Type						
Merchant Coke Plants	858	954	1,048	3,800	4,135	–8.1
Furnace Coke Plants	6,709	7,056	6,568	26,338	27,537	–4.4
U.S. Total	**7,567**	**8,010**	**7,616**	**30,138**	**31,672**	**–4.8**

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.''

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Table 31. Average Price of Coal Receipts at Coke Plants

(Dollars per Short Ton)

Average Price [1]	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
By State						
Alabama	$50.08	$50.16	$49.37	$50.03	$49.37	1.4
Illinois	w	w	w	w	w	w
Indiana	$51.16	$48.96	$50.70	$50.75	$51.93	–2.3
Kentucky	w	w	w	w	w	w
Michigan	w	w	w	w	w	w
New York	w	w	w	w	w	w
Ohio	$44.56	$45.82	$45.16	$45.89	$44.98	2.0
Pennsylvania	45.22	46.03	45.78	46.20	45.17	2.3
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	$48.23	$48.23	$48.84	$48.61	$48.92	–.6
Furnace Coke Plants	47.26	45.64	47.30	47.18	47.09	.2
U.S. Total	**47.37**	**45.95**	**47.51**	**47.36**	**47.33**	**.1**

1 Based on the cost including insurance and freight (c.i.f. cost).
w Withheld to avoid disclosure of individual company data.
Notes: Total may not equal sum of components because of independent rounding.
Source: Energy Information Administration, Form EIA-5, ''Coke Plant Report - Quarterly.''

Table 32. Coal Receipts at Other Industrial Plants by Census Division and State

(Thousand Short Tons)

Census Division and State	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
New England Total	**52**	**62**	**93**	**228**	**318**	**–28.4**
Connecticut	–	–	–	–	–	–
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	–	–	–	–	–	–
Rhode Island	–	–	–	–	–	–
Vermont	–	–	–	–	–	–
Middle Atlantic Total	**w**	**w**	**w**	**w**	**w**	**w**
New Jersey	w	w	w	w	w	w
New York	408	426	399	1,478	1,476	.1
Pennsylvania	1,214	1,074	1,169	4,437	4,516	–1.7
East North Central Total	**4,568**	**4,334**	**4,728**	**17,155**	**17,042**	**.7**
Illinois	1,030	898	1,057	3,869	3,782	2.3
Indiana	1,351	1,264	1,330	5,085	4,917	3.4
Michigan	730	786	888	2,492	2,845	–12.4
Ohio	977	901	984	3,933	3,796	3.6
Wisconsin	479	485	469	1,776	1,702	4.3
West North Central Total	**3,605**	**3,229**	**3,612**	**13,081**	**13,588**	**–3.7**
Iowa	748	930	658	3,046	3,095	–1.6
Kansas	30	37	45	138	174	–21.0
Minnesota	516	285	541	1,486	1,759	–15.5
Missouri	314	292	309	1,234	1,149	7.4
Nebraska	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	116	113	110	443	376	17.7
South Atlantic Total	**w**	**w**	**w**	**w**	**w**	**w**
Delaware	w	w	w	w	w	w
District of Columbia	–	–	–	–	–	–
Florida	313	329	327	1,319	1,290	2.2
Georgia	536	502	523	2,051	1,987	3.2
Maryland	189	196	210	776	804	–3.6
North Carolina	523	514	576	2,206	2,324	–5.1
South Carolina	543	474	549	2,035	2,043	–.4
Virginia	624	572	669	2,532	2,573	–1.6
West Virginia	428	402	398	1,650	1,674	–1.5
East South Central Total	**w**	**w**	**w**	**w**	**w**	**w**
Alabama	688	611	623	2,605	2,558	1.8
Kentucky	564	529	573	2,254	2,300	–2.0
Mississippi	w	w	w	w	w	w
Tennessee	866	926	955	3,638	3,711	–1.9
West South Central Total	**1,508**	**1,441**	**1,534**	**5,758**	**6,044**	**–4.7**
Arkansas	60	69	94	296	357	–17.0
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	1,263	1,233	1,213	4,755	4,825	–1.5
Mountain Total	**1,175**	**1,194**	**1,126**	**4,703**	**4,154**	**13.2**
Arizona	177	181	174	698	689	1.3
Colorado	199	186	114	772	378	104.3
Idaho	w	w	w	w	w	w
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	99	164	129	525	518	1.4
Wyoming	517	460	480	1,944	1,835	5.9
Pacific Total	**676**	**533**	**759**	**2,398**	**2,628**	**–8.8**
Alaska	w	w	w	w	w	w
California	520	481	590	1,997	2,168	–7.9
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	37	26	44	153	169	–9.3
U.S. Total	**18,605**	**17,444**	**18,966**	**70,716**	**71,496**	**–1.1**

[w] Withheld to avoid disclosure of individual company data.

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

Sources: Energy Information Administration, Form EIA-3, ''Quarterly Coal Consumption-Manufacturing Plants;'' Form EIA-867, ''Annual Nonutility Power Producer Report;'' and Form EIA-7A, ''Coal Production Report.''

Table 33. Average Price of Coal Receipts at Other Industrial Plants by Census Division and State

(Dollars per Short Ton)

Census Division and State	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
New England Total	**$64.33**	**$65.31**	**$56.45**	**$63.46**	**$57.36**	**10.6**
Connecticut	–	–	–	–	–	–
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	–	–	–	–	–	–
Rhode Island	–	–	–	–	–	–
Vermont	–	–	–	–	–	–
Middle Atlantic Total	**w**	**w**	**w**	**w**	**w**	**w**
New Jersey	w	w	w	w	w	w
New York	$41.33	$42.39	$39.91	$41.52	$40.11	3.5
Pennsylvania	34.26	33.55	34.20	34.20	33.84	1.1
East North Central Total	**34.03**	**33.92**	**34.36**	**33.53**	**34.44**	**–2.6**
Illinois	29.80	30.25	29.78	29.76	29.68	.2
Indiana	30.75	30.13	31.35	29.75	31.76	–6.3
Michigan	43.06	41.38	41.26	41.94	41.28	1.6
Ohio	33.72	33.25	35.16	34.05	35.28	–3.5
Wisconsin	39.59	39.98	38.95	40.02	40.02	*
West North Central Total	**19.06**	**19.16**	**18.55**	**19.02**	**19.05**	**–.1**
Iowa	28.57	30.45	29.03	28.92	29.32	–1.4
Kansas	31.93	29.94	32.30	31.93	32.46	–1.6
Minnesota	29.49	29.97	27.56	31.03	28.85	7.6
Missouri	30.25	29.03	30.32	30.06	31.37	–4.2
Nebraska	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	$22.81	$23.34	$24.24	$23.36	$24.90	–6.2
South Atlantic Total	**w**	**w**	**w**	**w**	**w**	**w**
Delaware	w	w	w	w	w	w
District of Columbia	–	–	–	–	–	–
Florida	$44.65	$45.14	$45.45	$45.13	$45.68	–1.2
Georgia	44.95	44.39	44.21	44.84	44.21	1.4
Maryland	32.53	32.79	33.06	32.62	32.52	.3
North Carolina	43.06	43.12	43.65	43.14	43.36	–.5
South Carolina	44.10	44.37	44.44	44.23	44.08	.3
Virginia	43.87	43.41	43.80	43.85	43.51	.8
West Virginia	36.45	36.81	34.24	35.31	33.37	5.8
East South Central Total	**w**	**w**	**w**	**w**	**w**	**w**
Alabama	$40.11	$40.40	$40.27	$40.20	$40.15	.1
Kentucky	45.23	43.94	44.86	44.71	44.02	1.6
Mississippi	w	w	w	w	w	w
Tennessee	$36.93	$36.10	$35.06	$36.33	$35.22	3.2
West South Central Total	**22.43**	**21.45**	**21.77**	**22.42**	**21.79**	**2.9**
Arkansas	39.65	42.03	42.83	42.38	43.24	–2.0
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	$20.85	$19.50	$19.04	$20.13	$18.99	6.0
Mountain Total	**27.03**	**27.47**	**26.11**	**27.14**	**26.70**	**1.6**
Arizona	37.56	38.83	38.31	38.81	39.27	–1.2
Colorado	25.41	25.37	22.74	25.13	23.17	8.5
Idaho	w	w	w	w	w	w
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	$20.33	$18.02	$19.04	$19.27	$19.10	.9
Wyoming	24.14	24.08	21.77	23.68	22.32	6.1
Pacific Total	**43.11**	**43.33**	**43.05**	**43.24**	**42.45**	**1.9**
Alaska	w	w	w	w	w	w
California	$39.69	$40.83	$39.72	$40.15	$39.53	1.5
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	$64.21	$72.35	$57.22	$59.80	$58.81	1.7
U.S. Total	**32.40**	**32.33**	**32.28**	**32.41**	**32.32**	**.3**

* 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 34. U.S. Coal Receipts at Manufacturing Plants by Standard Industrial Classification (SIC) Code

(Thousand Short Tons)

SIC Code	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
20 Food and kindred products	2,240	1,866	2,020	7,943	7,276	9.2
21 Tobacco Products	138	134	154	563	588	–4.3
22 Textile Mill Products	273	228	268	1,007	1,001	.6
23 Apparel, Other Textile Products	w	w	w	w	w	w
24 Lumber and Wood Products	w	w	w	w	w	w
25 Furniture and Fixtures	15	23	20	73	79	–7.8
26 Paper and Allied Products	3,448	3,278	3,520	13,205	13,271	–.5
27 Printing and Publishing	w	w	w	w	w	w
28 Chemicals, Allied Products	3,286	2,942	3,283	12,709	12,715	–.1
29 Petroleum and Coal Products[1]	1,799	1,633	1,865	6,737	7,019	–4.0
30 Rubber, Misc. Plastic Products	48	44	44	201	200	.5
31 Leather, leather products	w	w	w	w	w	w
32 Stone, clay, glass products	3,392	3,473	3,588	13,139	13,302	–1.2
33 Primary metal industries[2]	2,263	2,323	2,272	8,617	8,421	2.3
34 Fabricated Metal Products	66	54	68	281	248	13.2
35 Machinery, except Electric	115	67	118	328	376	–12.8
36 Computer, Electronic Products	w	w	w	w	w	w
37 Transportation Equipment	226	122	267	855	1,008	–15.1
38 Elec. Equip., Appl., Components	w	w	w	w	w	w
39 Misc. Manufacturing Industries	w	w	w	w	w	w
U.S. Total	**17,575**	**16,414**	**17,705**	**66,594**	**66,445**	**.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 35. Average Price of U.S. Coal Receipts at Manufacturing Plants by Standard Industrial Classification (SIC) Code

(Dollars per Short Ton)

SIC Code	October - December 1997	July - September 1997	October - December 1996	Percent Difference October - December: 1997 versus 1996
20 Food and kindred products	$30.48	$29.88	$31.26	–2.5
21 Tobacco Products	46.37	46.45	45.65	1.6
22 Textile Mill Products	47.68	47.47	46.92	1.6
23 Apparel, Other Textile Products	w	w	w	w
24 Lumber and Wood Products	w	w	w	w
25 Furniture and Fixtures	$55.85	$53.41	$51.19	9.1
26 Paper and Allied Products	39.65	40.28	39.59	.2
27 Printing and Publishing	w	w	w	w
28 Chemicals, Allied Products	$34.49	$34.64	$33.95	1.6
29 Petroleum and Coal Products[1]	11.11	11.09	11.08	.3
30 Rubber, Misc. Plastic Products	31.99	31.19	32.35	–1.1
31 Leather, leather products	w	w	w	w
32 Stone, clay, glass products	$35.46	$35.49	$35.23	.7
33 Primary metal industries[2]	26.75	25.88	26.90	–.6
34 Fabricated Metal Products	47.36	46.03	46.75	1.3
35 Machinery, except Electric	42.41	43.93	34.74	22.1
36 Computer, Electronic Products	w	w	w	w
37 Transportation Equipment	$41.84	$41.88	$42.22	–.9
38 Elec. Equip., Appl., Components	w	w	w	w
39 Misc. Manufacturing Industries	w	w	w	w
U.S. Total	**$32.40**	**$32.33**	**$32.28**	**.4**

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

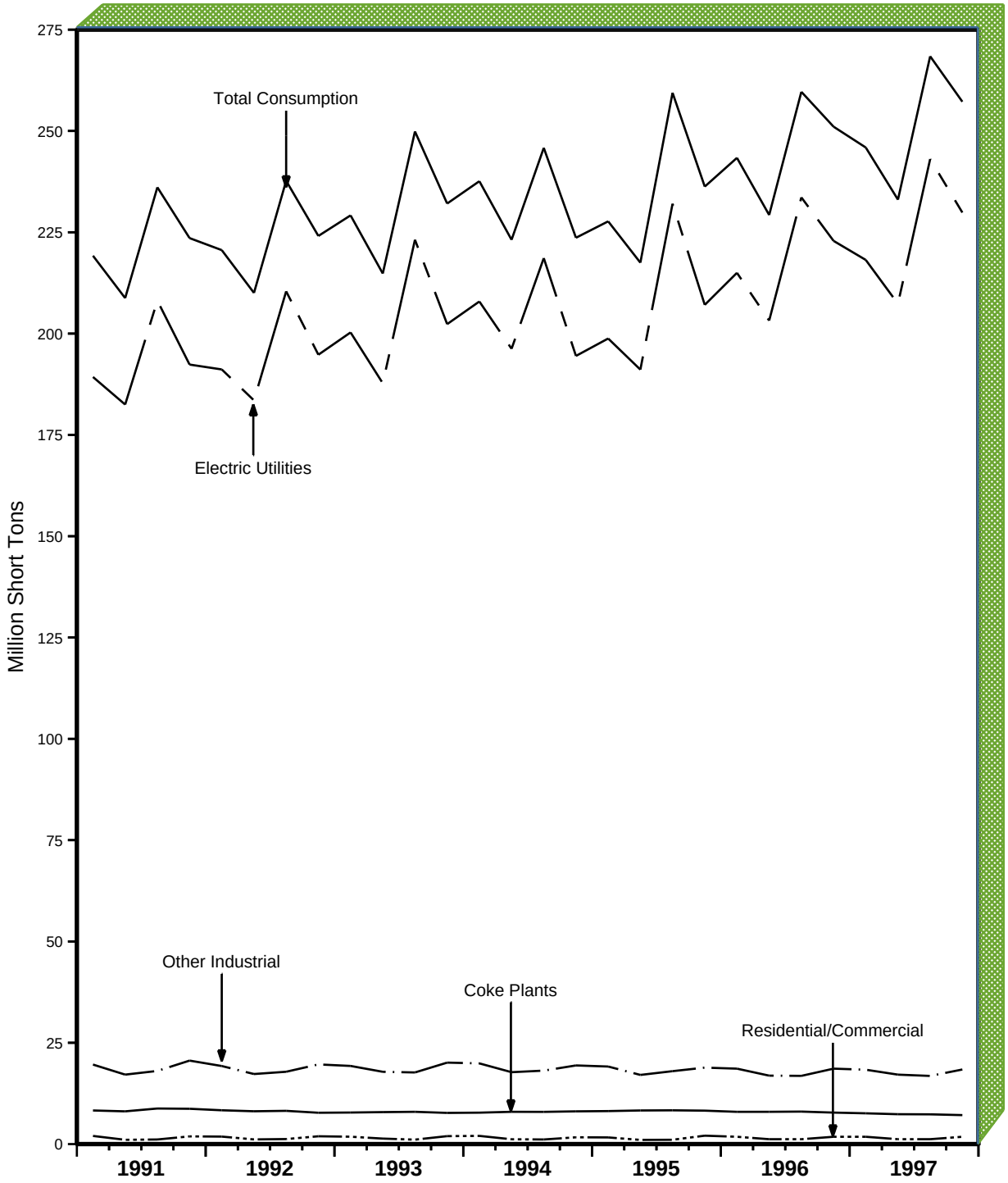
Table 36. Coal Receipts by the Residential and Commercial Sector by Census Division and State
(Thousand Short Tons)

Census Division and State	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
New England Total	**17**	**11**	**17**	**55**	**55**	**0.0**
Connecticut	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	w	w	w	w	w	w
Rhode Island	w	w	w	w	w	w
Vermont	w	w	w	w	w	w
Middle Atlantic Total	**386**	**257**	**386**	**1,285**	**1,285**	**.0**
New Jersey	w	w	w	w	w	w
New York	w	w	w	w	w	w
Pennsylvania	298	199	298	995	995	.0
East North Central Total	**472**	**315**	**472**	**1,574**	**1,574**	**.0**
Illinois	w	w	w	w	w	w
Indiana	107	71	107	356	356	.0
Michigan	w	w	w	w	w	w
Ohio	197	131	197	656	656	.0
Wisconsin	w	w	w	w	w	w
West North Central Total	**w**	**w**	**w**	**w**	**w**	**w**
Iowa	67	44	67	222	222	.0
Kansas	23	16	23	78	78	.0
Minnesota	47	31	47	156	156	.0
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	**241**	**161**	**241**	**803**	**803**	**.0**
Delaware	w	w	w	w	w	w
District of Columbia	7	5	7	23	23	.0
Florida	*	*	*	1	1	.0
Georgia	1	1	1	3	3	.0
Maryland	w	w	w	w	w	w
North Carolina	62	41	62	206	206	.0
South Carolina	6	4	6	19	19	.0
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
East South Central Total	**82**	**54**	**82**	**272**	**272**	**.0**
Alabama	13	9	13	44	44	.0
Kentucky	w	w	w	w	w	w
Mississippi	w	w	w	w	w	w
Tennessee	w	w	w	w	w	w
West South Central Total	*****	*****	*****	**2**	**1**	**230.4**
Arkansas	–	–	–	–	–	–
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	–	–	–	–	–	–
Mountain Total	**w**	**w**	**w**	**w**	**w**	**w**
Arizona	*	*	*	*	*	.0
Colorado	4	3	4	13	13	.0
Idaho	8	6	8	28	28	.0
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	114	76	114	382	382	.0
Pacific Total	**202**	**135**	**202**	**675**	**675**	**.0**
Alaska	142	95	142	474	474	.0
California	53	35	53	177	177	.0
Hawaii	–	–	–	–	–	–
Oregon	*	*	*	*	*	.0
Washington	7	5	7	23	23	.0
U.S. Total	**1,802**	**1,201**	**1,802**	**6,007**	**6,006**	*****

* Rounded to zero.
w Withheld to avoid disclosure of individual company data.
Note: Total may not equal sum of components because of independent rounding.
Source: Energy Information Administration, Form EIA-6, ''Coal Distribution Report.''

Consumption

Figure 7. Quarterly U.S. Coal Consumption, 1991-1997



Note: Each increment represents end-of-quarter data.
Sources, Energy Information Administration (EIA), Electric Utilities: Form EIA-759, "Monthly Power Plant Report;" Coke Plants: Form EIA-5, "Coke Plant Report - Quarterly;" Other Industrial: Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants;" Form EIA-867, "Annual Nonutility Power Producer Report;" and, Form EIA-7A, "Coal Production Report;" Residential and Commercial: Form EIA-6, "Coal Distribution Report."

Table 37. U.S. Coal Consumption by End-Use Sector 1991-1997

(Thousand Short Tons)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial	Residential and Commercial	Total
1991 January - March	189,291	8,291	19,618	2,008	219,208
April - June	182,488	8,075	17,139	1,055	208,757
July - September	208,133	8,777	18,051	1,132	236,093
October - December	192,356	8,711	20,596	1,899	223,562
Total	**772,268**	**33,854**	**75,405**	**6,094**	**887,621**
1992 January - March	191,151	8,340	19,260	1,843	220,594
April - June	183,507	8,097	17,284	1,149	210,037
July - September	210,419	8,200	17,843	1,236	237,698
October - December	194,783	7,729	19,656	1,925	224,093
Total	**779,860**	**32,366**	**74,042**	**6,153**	**892,421**
1993 January - March	200,285	7,783	19,281	1,817	229,165
April - June	187,746	7,886	17,834	1,354	214,820
July - September	223,142	7,960	17,675	1,094	249,872
October - December	202,335	7,694	20,102	1,956	232,087
Total	**813,508**	**31,323**	**74,892**	**6,221**	**925,944**
1994 January - March	207,915	7,754	19,911	2,016	237,596
April - June	196,254	7,965	17,739	1,187	223,145
July - September	218,616	7,945	18,123	1,135	245,820
October - December	194,484	8,077	19,405	1,674	223,640
Total	**817,270**	**31,740**	**75,179**	**6,013**	**930,201**
1995 January - March	198,782	8,140	19,135	1,638	227,695
April - June	191,107	8,291	17,066	1,032	217,496
July - September	232,033	8,330	17,990	1,063	259,415
October - December	207,085	8,251	18,864	2,074	236,274
Total	**829,007**	**33,011**	**73,055**	**5,807**	**940,880**
1996 January - March	214,987	7,958	18,612	1,802	243,360
April - June	203,210	7,965	16,888	1,201	229,264
July - September	233,609	8,016	16,831	1,201	259,657
October - December	222,875	7,767	18,610	1,802	251,053
Total	**874,681**	**31,706**	**70,941**	**6,006**	**983,334**
1997 January - March	219,015	7,590	18,351	1,802	246,758
April - June	208,162	7,367	17,134	1,201	233,864
July - September	243,976	7,338	16,815	1,201	269,330
October - December	230,509	7,148	18,402	1,802	257,861
Total	**901,662**	**29,443**	**70,702**	**6,006**	**1,007,813**

Notes: Consumption data for 1991 through 1996 exclude coal consumed by independent power producers to generate electricity and cogeneration plants not included in the other industrial, coke, and commercial sectors. For 1991 through 1996, these excluded EIA quarterly estimated consumption data are: 1500, 2500, 3086, 3785, 5200, and 6000 thousand short tons, respectively. 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;'' Form EIA-867, ''Annual Non-utility Power Producer Report;'' and Form EIA-7A, ''Coal Production Report.'' • Residential and Commercial: Form EIA-6, ''Coal Distribution Report.''

Table 38. Coal Consumption by Census Division and State

(Thousand Short Tons)

Census Division and State	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
New England Total	**2,066**	**1,980**	**1,682**	**7,864**	**7,024**	**12.0**
Connecticut	275	234	181	1,063	931	14.2
Maine	45	46	57	193	234	–17.3
Massachusetts	1,349	1,256	1,186	4,895	4,477	9.3
New Hampshire	395	444	257	1,707	1,377	24.0
Rhode Island	1	1	1	3	3	.0
Vermont	1	*	1	2	2	.0
Middle Atlantic Total	**18,804**	**19,310**	**17,530**	**72,999**	**70,965**	**2.9**
New Jersey	794	847	591	2,869	2,402	19.4
New York	3,140	3,118	2,952	11,748	11,337	3.6
Pennsylvania	14,870	15,345	13,987	58,382	57,226	2.0
East North Central Total	**60,319**	**60,523**	**59,757**	**234,748**	**229,000**	**2.5**
Illinois	12,074	12,531	12,280	47,531	44,431	7.0
Indiana	17,473	17,431	15,949	67,303	64,021	5.1
Michigan	9,037	8,914	9,560	35,210	36,694	–4.0
Ohio	15,482	14,994	15,367	59,269	59,835	–.9
Wisconsin	6,252	6,653	6,602	25,435	24,019	5.9
West North Central Total	**35,225**	**36,831**	**35,284**	**137,960**	**136,643**	**1.0**
Iowa	5,472	6,022	5,214	21,568	21,171	1.9
Kansas	4,218	5,416	4,787	17,749	19,084	–7.0
Minnesota	5,249	4,685	5,302	19,136	19,264	–.7
Missouri	9,078	10,035	8,663	36,604	34,382	6.5
Nebraska	2,511	2,830	2,757	11,093	10,379	6.9
North Dakota	8,051	7,233	8,217	29,367	30,511	–3.7
South Dakota	646	610	344	2,442	1,852	31.8
South Atlantic Total	**43,789**	**46,949**	**40,042**	**170,938**	**165,545**	**3.3**
Delaware	425	511	542	1,864	1,956	–4.7
District of Columbia	7	5	7	23	23	.0
Florida	7,021	7,949	6,897	28,720	28,443	1.0
Georgia	8,168	9,899	6,841	32,680	31,158	4.9
Maryland	2,719	3,157	2,599	11,248	11,366	–1.0
North Carolina	7,972	7,966	7,243	29,621	27,624	7.2
South Carolina	3,836	4,092	3,270	14,129	13,852	2.0
Virginia	3,961	4,056	3,839	15,510	14,983	3.5
West Virginia	9,682	9,315	8,804	37,142	36,139	2.8
East South Central Total	**29,161**	**30,232**	**26,492**	**112,852**	**110,450**	**2.2**
Alabama	9,569	10,061	9,313	36,405	37,052	–1.7
Kentucky	10,716	10,894	9,265	41,992	40,863	2.8
Mississippi	1,567	1,907	1,615	6,273	5,791	8.3
Tennessee	7,309	7,370	6,299	28,182	26,744	5.4
West South Central Total	**35,902**	**41,480**	**35,849**	**150,061**	**146,472**	**2.4**
Arkansas	2,829	3,836	3,704	14,070	14,816	–5.0
Louisiana	3,416	3,922	3,150	13,875	12,534	10.7
Oklahoma	5,080	5,649	4,635	20,819	20,125	3.4
Texas	24,577	28,074	24,360	101,297	98,997	2.3
Mountain Total	**29,768**	**29,714**	**30,985**	**111,468**	**107,226**	**4.0**
Arizona	4,922	5,187	4,899	18,205	16,792	8.4
Colorado	4,804	4,696	4,534	17,909	17,222	4.0
Idaho	161	33	198	358	397	–9.7
Montana	2,748	2,713	2,863	9,439	8,032	17.5
Nevada	2,095	2,002	2,360	7,441	7,604	–2.1
New Mexico	3,861	4,064	4,437	15,887	15,297	3.9
Utah	4,103	4,241	4,347	15,893	15,237	4.3
Wyoming	7,075	6,776	7,347	26,336	26,646	–1.2
Pacific Total	**2,827**	**2,310**	**3,433**	**8,926**	**10,008**	**–10.8**
Alaska	206	139	201	711	706	.8
California	543	553	622	2,202	2,317	–4.9
Hawaii	37	23	37	145	169	–14.4
Oregon	560	280	729	917	1,134	–19.1
Washington	1,482	1,316	1,843	4,950	5,682	–12.9
U.S. Total	**257,861**	**269,330**	**251,053**	**1,007,815**	**983,334**	**2.5**

* Rounded to zero.

Notes: Consumption data for 1991 through 1996 exclude coal consumed by independent power producers to generate electricity and cogeneration plants not included in the other industrial, coke, and commercial sectors. For 1991 through 1996, these excluded EIA quarterly estimated consumption data are: 1500, 2500, 3086, 3785, 5200, and 6000 thousand short tons, respectively. 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-867, ''Annual Nonutility Power Producer Report;'' Form EIA-7A, ''Coal Production Report;'' Form EIA-5, ''Coke Plant Report - Quarterly;'' and Form EIA-6, ''Coal Distribution Report.''

Table 39. Coal Consumption at Electric Utility Plants by Census Division and State

(Thousand Short Tons)

Census Division and State	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
New England Total	**1,998**	**1,915**	**1,599**	**7,583**	**6,701**	**13.2**
Connecticut	274	233	180	1,058	925	14.3
Maine	–	–	–	–	–	–
Massachusetts	1,331	1,240	1,165	4,826	4,406	9.5
New Hampshire	393	442	254	1,699	1,369	24.1
Rhode Island	–	–	–	–	–	–
Vermont	–	–	–	–	–	–
Middle Atlantic Total	**13,922**	**14,607**	**12,613**	**54,179**	**51,718**	**4.8**
New Jersey	789	843	586	2,851	2,387	19.4
New York	2,384	2,381	2,153	8,726	8,254	5.7
Pennsylvania	10,749	11,383	9,874	42,603	41,076	3.7
East North Central Total	**52,954**	**53,693**	**51,922**	**205,551**	**198,900**	**3.3**
Illinois	10,377	10,970	10,590	41,017	38,090	7.7
Indiana	14,656	14,666	13,144	56,145	52,855	6.2
Michigan	8,300	8,333	8,333	31,928	32,175	–.8
Ohio	13,849	13,499	13,737	52,893	53,543	–1.2
Wisconsin	5,772	6,224	6,119	23,568	22,236	6.0
West North Central Total	**31,452**	**33,637**	**31,434**	**123,968**	**122,419**	**1.3**
Iowa	4,631	5,184	4,363	18,195	17,864	1.9
Kansas	4,163	5,366	4,724	17,534	18,853	–7.0
Minnesota	4,766	4,380	4,778	17,490	17,459	.2
Missouri	8,711	9,703	8,305	35,194	33,059	6.5
Nebraska	2,419	2,762	2,658	10,796	10,091	7.0
North Dakota	6,234	5,749	6,382	22,754	23,640	–3.7
South Dakota	529	493	224	2,005	1,453	38.0
South Atlantic Total	**39,772**	**43,360**	**36,039**	**155,500**	**149,354**	**4.1**
Delaware	374	462	491	1,686	1,787	–5.7
District of Columbia	–	–	–	–	–	–
Florida	6,671	7,625	6,567	27,372	27,172	.7
Georgia	7,624	9,418	6,312	30,631	29,171	5.0
Maryland	2,508	2,952	2,389	10,417	10,540	–1.2
North Carolina	7,350	7,422	6,589	27,206	25,083	8.5
South Carolina	3,311	3,595	2,754	12,096	11,833	2.2
Virginia	2,959	3,167	2,800	11,605	10,994	5.6
West Virginia	8,974	8,719	8,138	34,487	32,775	5.2
East South Central Total	**25,898**	**27,003**	**23,052**	**99,620**	**96,809**	**2.9**
Alabama	8,255	8,662	7,851	30,840	31,216	–1.2
Kentucky	9,778	10,011	8,312	38,281	37,072	3.3
Mississippi	1,501	1,849	1,552	6,035	5,558	8.6
Tennessee	6,363	6,480	5,337	24,464	22,964	6.5
West South Central Total	**34,438**	**39,940**	**34,325**	**144,219**	**140,493**	**2.7**
Arkansas	2,772	3,763	3,609	13,772	14,467	–4.8
Louisiana	3,401	3,909	3,133	13,807	12,450	10.9
Oklahoma	4,927	5,458	4,453	20,102	19,386	3.7
Texas	23,337	26,810	23,130	96,538	94,189	2.5
Mountain Total	**28,075**	**28,229**	**29,367**	**105,215**	**101,507**	**3.7**
Arizona	4,741	5,001	4,717	17,503	16,117	8.6
Colorado	4,605	4,506	4,421	17,116	16,841	1.6
Idaho	–	–	–	–	–	–
Montana	2,692	2,689	2,808	9,286	7,897	17.6
Nevada	2,048	1,955	2,315	7,261	7,424	–2.2
New Mexico	3,839	4,043	4,417	15,802	15,215	3.9
Utah	3,723	3,803	3,936	14,252	13,584	4.9
Wyoming	6,427	6,231	6,753	23,996	24,430	–1.8
Pacific Total	**2,001**	**1,593**	**2,525**	**5,827**	**6,780**	**–14.1**
Alaska	63	43	59	235	229	2.5
California	–	–	–	–	–	–
Hawaii	–	–	–	–	–	–
Oregon	498	276	670	821	1,044	–21.3
Washington	1,441	1,273	1,796	4,770	5,507	–13.4
U.S. Total	**230,509**	**243,976**	**222,875**	**901,662**	**874,681**	**3.1**

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

Table 40. Change in Electric Utility Net Generation by State and Census Division, October-December 1997, 1996

(Million Kilowatthours)

Census Division and State	Total		Coal		Oil		Gas		Hydro		Nuclear	
	Net Change	Percent Change	Net Change	Percent Change	Net Change	Percent Change	Net Change	Percent Change	Net Change	Percent Change	Net Change	Percent Change
New England	**–1,692**	**–9**	**–155**	**–4**	**1,055**	**37**	**676**	**38**	**512**	**42**	**–3,789**	**–39**
Connecticut	–4,582	–62	–144	–24	1,141	154	46	25	87	78	–5,710	–101
Maine	1,290	208	–	–	4	3	–	–	111	23	1,174	–
Massachusetts	582	8	256	9	18	1	239	23	97	NM	–29	–2
New Hampshire	762	27	–268	–31	–82	–33	–1	–89	–57	–17	1,170	84
Rhode Island	368	67	*	–	–25	–75	393	76	*	–	–	–
Vermont	–111	–8	–	–	–1	–73	–3	–100	274	97	–394	–35
Middle Atlantic	**–1,178**	**–2**	**497**	**2**	**–815**	**–27**	**–2,019**	**–39**	**1,365**	**22**	**–214**	**–1**
New Jersey	320	7	74	5	–106	–81	–490	–66	–26	NM	868	41
New York	–836	–3	537	11	–262	–13	–1,463	–35	763	12	–420	–5
Pennsylvania	–661	–2	–114	*	–446	–50	–67	–33	627	NM	–662	–4
East North Central	**5,622**	**4**	**10,624**	**11**	**–93**	**–16**	**–428**	**–39**	**730**	**73**	**–5,229**	**–17**
Illinois	2,277	7	5,137	35	–119	–42	–348	–60	–1	–7	–2,417	–14
Indiana	–327	–1	–265	–1	4	6	–79	–58	13	12	–	–
Michigan	–546	–2	1,027	6	35	25	–50	–21	184	84	–1,744	–25
Ohio	4,341	13	3,943	14	–19	–25	–27	–47	46	74	398	10
Wisconsin	–122	–1	781	8	5	24	76	80	487	81	–1,465	–57
West North Central	**2,859**	**5**	**3,138**	**7**	**–42**	**–12**	**98**	**20**	**288**	**7**	**–632**	**–6**
Iowa	–757	–9	–189	–3	2	23	2	7	–29	–11	–547	–47
Kansas	1,225	13	1,029	16	43	244	157	78	–	–	–5	*
Minnesota	887	8	829	13	36	26	2	2	11	5	1	*
Missouri	760	5	1,248	9	–128	–85	–40	–47	525	NM	–846	–37
Nebraska	802	14	78	2	3	96	–28	–44	–13	–3	764	60
North Dakota	437	6	636	9	3	17	*	–99	–202	–24	–	–
South Dakota	–496	–18	–493	–71	–1	–37	3	65	–5	*	–	–
South Atlantic	**–798**	**–1**	**5,944**	**7**	**–1,427**	**–27**	**–2,337**	**–24**	**–138**	**–4**	**–2,841**	**–6**
Delaware	226	12	447	62	–71	–24	–150	–18	–	–	–	–
District of Columbia	–13	–55	–	–	–13	–55	–	–	–	–	–	–
Florida	–1,583	–5	828	5	–1,157	–26	–1,774	–22	–18	–28	537	9
Georgia	–584	–2	–947	–6	10	54	–6	–33	–376	–28	734	10
Maryland	–658	–6	–850	–12	–262	–71	–28	–29	277	64	205	6
North Carolina	3,154	13	2,633	19	9	13	–19	–66	91	8	441	5
South Carolina	–3,378	–18	1,102	18	11	49	–102	–97	–331	–39	–4,058	–34
Virginia	371	3	1,088	18	31	100	–252	–69	204	NM	–700	–10
West Virginia	1,666	9	1,643	9	14	35	–6	–56	15	14	–	–
East South Central	**1,545**	**2**	**–707**	**–1**	**318**	**341**	**–136**	**–9**	**–420**	**–6**	**2,489**	**21**
Alabama	1,740	7	1,300	8	4	18	39	68	–593	–18	989	17
Kentucky	–1,493	–7	–1,381	–7	2	6	–4	–17	–109	–11	–	–
Mississippi	381	7	1,647	105	267	NM	–171	–13	–	–	–1,362	–50
Tennessee	916	4	–2,273	–15	45	133	*	–	283	11	2,862	89
West South Central	**2,509**	**3**	**1,333**	**3**	**117**	**112**	**–2,375**	**–9**	**1,939**	**367**	**1,494**	**10**
Arkansas	845	9	–54	–1	10	83	–173	–54	901	340	162	7
Louisiana	–313	–2	251	6	14	89	–1,724	–28	–	–	1,146	35
Oklahoma	452	4	–320	–4	62	NM	–199	–8	909	NM	–	–
Texas	1,525	3	1,457	5	30	43	–278	–2	129	73	186	2
Mountain	**7,474**	**12**	**7,088**	**15**	**78**	**151**	**273**	**16**	**–793**	**–9**	**829**	**13**
Arizona	2,204	14	1,501	20	5	61	137	121	–268	–14	829	13
Colorado	876	11	990	13	2	62	38	61	–154	–36	–	–
Idaho	–111	–5	–	–	*	–5	–	–	–111	–5	–	–
Montana	491	7	860	24	–1	–21	11	164	–379	–11	–	–
Nevada	894	18	820	21	82	NM	6	1	–14	–4	–	–
New Mexico	1,222	17	1,098	17	–2	–47	132	24	–5	–22	–	–
Utah	1,041	13	979	12	*	–3	–50	–42	113	48	–	–
Wyoming	856	8	840	8	–8	–43	–1	–24	25	19	–	–
Pacific	**–1,102**	**–2**	**1,385**	**58**	**170**	**388**	**–1,652**	**–17**	**–1,842**	**–5**	**949**	**10**
California	799	3	–	–	169	422	–1,662	–19	1,718	25	729	10
Oregon	154	1	662	157	1	106	63	11	–573	–5	–	–
Washington	–2,055	–8	722	37	*	4	–53	–44	–2,987	–13	220	10
Pacific Noncontiguous	**521**	**18**	**–26**	**–30**	**331**	**19**	**71**	**10**	**145**	**36**	–	–
Alaska	511	38	–26	–30	321	221	71	10	145	36	–	–
Hawaii	10	1	–	–	10	1	–	–	*	–7	–	–
Total	**15,759**	**2**	**29,122**	**7**	**–309**	**–2**	**–7,830**	**–13**	**1,787**	**2**	**–6,943**	**–4**

* Number less than 0.5 rounded to zero.
NM Percent change calculation not meaningful as value is greater than 500.
Source: Energy Information Administration, Form EIA-759, ''Monthly Power Plant Report.''

Table 41. Coal Carbonized at Coke Plants by Census Division and State

(Thousand Short Tons)

Census Division and State	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	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	2,638	2,684	2,697	10,334	10,689	–3.3
East North Central Total	**2,485**	**2,534**	**2,849**	**10,606**	**11,414**	**–7.1**
Illinois	w	w	w	w	w	w
Indiana	1,402	1,446	1,460	5,715	5,823	–1.9
Michigan	w	w	w	w	w	w
Ohio	467	468	465	1,848	1,842	.3
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	623	775	802	2,956	3,247	–9.0
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	848	987	1,039	3,826	4,135	–7.5
Furnace Coke Plants	6,300	6,351	6,727	25,618	27,570	–7.1
U.S. Total	**7,148**	**7,338**	**7,767**	**29,443**	**31,706**	**–7.1**

[w] Withheld to avoid disclosure of individual company data.

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

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

Table 42. Coal Consumption at Other Industrial Plants by Census Division and State

(Thousand Short Tons)

Census Division and State	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
New England Total	**52**	**55**	**66**	**226**	**268**	**–15.6**
Connecticut	–	–	–	–	–	–
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	–	–	–	–	–	–
Rhode Island	–	–	–	–	–	–
Vermont	–	–	–	–	–	–
Middle Atlantic Total	**w**	**w**	**w**	**w**	**w**	**w**
New Jersey	w	w	w	w	w	w
New York	342	359	368	1,419	1,449	–2.0
Pennsylvania	1,184	1,079	1,119	4,450	4,466	–.4
East North Central Total	**4,407**	**3,982**	**4,514**	**17,016**	**17,113**	**–.6**
Illinois	1,025	904	1,025	3,881	3,740	3.8
Indiana	1,308	1,247	1,238	5,086	4,987	2.0
Michigan	655	527	830	2,415	2,914	–17.1
Ohio	969	896	968	3,873	3,794	2.1
Wisconsin	449	408	452	1,762	1,678	5.0
West North Central Total	**3,530**	**3,032**	**3,607**	**13,182**	**13,415**	**–1.7**
Iowa	775	794	784	3,152	3,085	2.2
Kansas	32	34	39	137	154	–10.9
Minnesota	436	274	478	1,490	1,649	–9.6
Missouri	306	291	297	1,206	1,118	7.9
Nebraska	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	117	117	120	436	398	9.6
South Atlantic Total	**w**	**w**	**w**	**w**	**w**	**w**
Delaware	w	w	w	w	w	w
District of Columbia	–	–	–	–	–	–
Florida	349	323	330	1,347	1,270	6.1
Georgia	543	480	528	2,046	1,985	3.1
Maryland	198	197	198	790	785	.6
North Carolina	560	502	592	2,210	2,336	–5.4
South Carolina	519	493	511	2,014	2,000	.7
Virginia	634	558	672	2,523	2,613	–3.4
West Virginia	447	393	395	1,668	1,630	2.3
East South Central Total	**w**	**w**	**w**	**w**	**w**	**w**
Alabama	677	615	646	2,565	2,545	.8
Kentucky	561	522	590	2,251	2,322	–3.0
Mississippi	w	w	w	w	w	w
Tennessee	912	868	928	3,608	3,670	–1.7
West South Central Total	**1,464**	**1,540**	**1,523**	**5,840**	**5,978**	**–2.3**
Arkansas	56	73	95	297	348	–14.7
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	1,240	1,264	1,230	4,759	4,808	–1.0
Mountain Total	**1,281**	**1,125**	**1,202**	**4,701**	**4,141**	**13.5**
Arizona	180	186	182	702	675	4.0
Colorado	195	188	109	780	367	112.3
Idaho	w	w	w	w	w	w
Montana	w	w	w	w	w	w
Nevada	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w
Utah	99	165	125	527	512	3.0
Wyoming	533	469	479	1,959	1,835	6.7
Pacific Total	**623**	**582**	**706**	**2,424**	**2,553**	**–5.1**
Alaska	w	w	w	w	w	w
California	489	517	569	2,025	2,140	–5.3
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	34	38	40	156	152	3.0
U.S. Total	**18,402**	**16,815**	**18,610**	**70,702**	**70,941**	**–.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 Report - Manufacturing Plants;'' Form EIA-867, ''Annual Non-utility Power Producer Report;'' and Form EIA-7A, ''Coal Production Report.''

Table 43. U.S. Coal Consumption at Manufacturing Plants by Standard Industrial Classification (SIC) Code

(Thousand Short Tons)

SIC Code	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
20 Food and kindred products	2,327	1,680	2,333	7,994	7,397	8.1
21 Tobacco Products	130	131	151	556	601	–7.4
22 Textile Mill Products	254	214	244	999	999	*
23 Apparel, Other Textile Products	w	w	w	w	w	w
24 Lumber and Wood Products	w	w	w	w	w	w
25 Furniture and Fixtures	22	9	23	76	78	–3.1
26 Paper and Allied Products	3,441	3,112	3,405	13,270	13,255	.1
27 Printing and Publishing	w	w	w	w	w	w
28 Chemicals, Allied Products	3,286	3,002	3,205	12,779	12,676	.8
29 Petroleum and Coal Products[1]	1,779	1,571	1,806	6,698	6,986	–4.1
30 Rubber, Misc. Plastic Products	48	44	45	197	202	–2.7
31 Leather, leather products	w	w	w	w	w	w
32 Stone, clay, glass products	3,356	3,393	3,507	13,177	13,324	–1.1
33 Primary metal industries[2]	2,140	2,235	2,104	8,489	8,417	.9
34 Fabricated Metal Products	68	37	73	265	273	–3.0
35 Machinery, except Electric	104	36	118	361	395	–8.6
36 Computer, Electronic Products	w	w	w	w	w	w
37 Transportation Equipment	215	114	269	850	1,015	–16.3
38 Elec. Equip., Appl., Components	w	w	w	w	w	w
39 Misc. Manufacturing Industries	w	w	w	w	w	w
U.S. Total	**17,372**	**15,785**	**17,514**	**66,581**	**66,558**	*

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

Table 44. Coal Consumption by Residential and Commercial Sector by Census Division and State

(Thousand Short Tons)

Census Division and State	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
New England Total	**17**	**11**	**17**	**55**	**55**	**0.0**
Connecticut	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
New Hampshire	w	w	w	w	w	w
Rhode Island	w	w	w	w	w	w
Vermont	w	w	w	w	w	w
Middle Atlantic Total	**386**	**257**	**386**	**1,285**	**1,285**	**.0**
New Jersey	w	w	w	w	w	w
New York	w	w	w	w	w	w
Pennsylvania	298	199	298	995	995	.0
East North Central Total	**472**	**315**	**472**	**1,574**	**1,574**	**.0**
Illinois	w	w	w	w	w	w
Indiana	107	71	107	356	356	.0
Michigan	w	w	w	w	w	w
Ohio	197	131	197	656	656	.0
Wisconsin	w	w	w	w	w	w
West North Central Total	**w**	**w**	**w**	**w**	**w**	**w**
Iowa	67	44	67	222	222	.0
Kansas	23	16	23	78	78	.0
Minnesota	47	31	47	156	156	.0
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	**241**	**161**	**241**	**803**	**803**	**.0**
Delaware	w	w	w	w	w	w
District of Columbia	7	5	7	23	23	.0
Florida	*	*	*	1	1	.0
Georgia	1	1	1	3	3	.0
Maryland	w	w	w	w	w	w
North Carolina	62	41	62	206	206	.0
South Carolina	6	4	6	19	19	.0
Virginia	w	w	w	w	w	w
West Virginia	w	w	w	w	w	w
East South Central Total	**82**	**54**	**82**	**272**	**272**	**.0**
Alabama	13	9	13	44	44	.0
Kentucky	w	w	w	w	w	w
Mississippi	w	w	w	w	w	w
Tennessee	w	w	w	w	w	w
West South Central Total	*****	*****	*****	**2**	**1**	**230.4**
Arkansas	–	–	–	–	–	–
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	–	–	–	–	–	–
Mountain Total	**w**	**w**	**w**	**w**	**w**	**w**
Arizona	*	*	*	*	*	.0
Colorado	4	3	4	13	13	.0
Idaho	8	6	8	28	28	.0
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	114	76	114	382	382	.0
Pacific Total	**202**	**135**	**202**	**675**	**675**	**.0**
Alaska	142	95	142	474	474	.0
California	53	35	53	177	177	.0
Hawaii	w	w	w	w	w	w
Oregon	w	w	w	w	w	w
Washington	7	5	7	23	23	.0
U.S. Total	**1,802**	**1,201**	**1,802**	**6,007**	**6,006**	*****

* Rounded to zero.

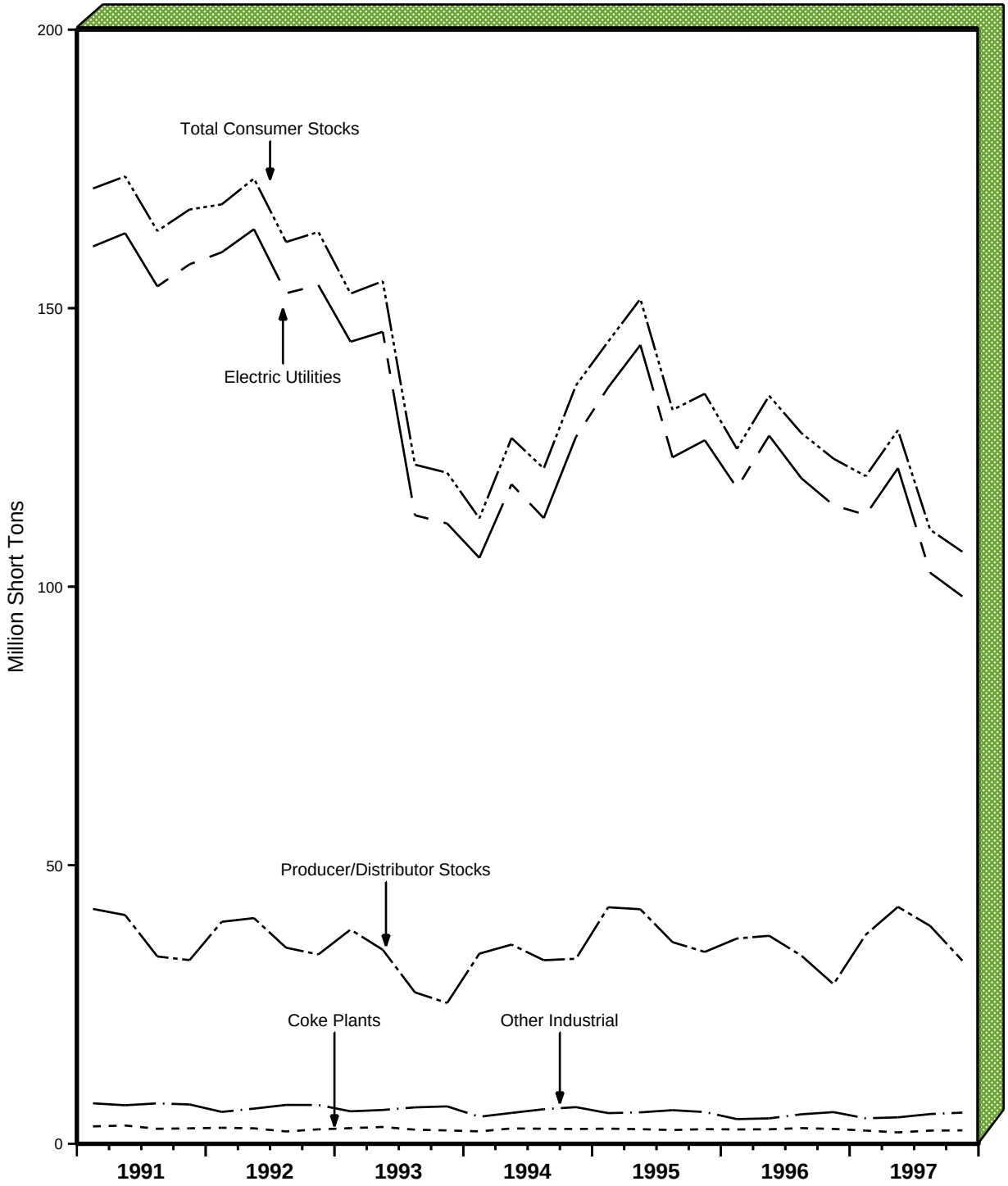
w Withheld to avoid disclosure of individual company data.

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

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

Stocks

Figure 8. Quarterly U.S. Coal Stocks, 1991-1997



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

Table 45. U.S. Coal Stocks, 1991-1997

(Thousand Short Tons)

Last Day of Quarter	Coal Consumers[1]				Coal Producers and Distributors	Total
	Electric Utilities	Coke Plants	Other Industrial[2]	Total		
1991 March 31	161,084	3,130	7,271	171,485	42,162	213,647
June 30	163,459	3,283	6,921	173,663	41,054	214,716
September 30	153,907	2,695	7,258	163,860	33,628	197,488
December 31	157,876	2,773	7,061	167,711	32,971	200,682
1992 March 31	160,032	2,875	5,725	168,632	39,853	208,485
June 30	164,176	2,776	6,317	173,270	40,513	213,783
September 30	152,685	2,215	6,979	161,878	35,198	197,076
December 31	154,130	2,597	6,965	163,692	33,993	197,685
1993 March 31	143,978	2,809	5,831	152,619	38,453	191,072
June 30	145,753	3,020	6,070	154,842	34,827	189,669
September 30	112,833	2,536	6,540	121,909	27,183	149,092
December 31	111,341	2,401	6,716	120,458	25,284	145,742
1994 March 31	105,186	2,232	4,859	112,278	34,139	146,417
June 30	118,391	2,759	5,543	126,694	35,758	162,451
September 30	112,314	2,706	6,206	121,225	32,955	154,180
December 31	126,897	2,657	6,585	136,139	33,219	169,358
1995 March 31	135,778	2,719	5,507	144,004	42,460	186,463
June 30	143,385	2,624	5,649	151,657	42,104	193,761
September 30	123,227	2,476	6,036	131,739	36,193	167,932
December 31	126,304	2,632	5,702	134,639	34,444	169,083
1996 March 31	117,738	2,583	4,431	124,752	36,851	161,603
June 30	127,113	2,601	4,565	134,280	37,344	171,623
September 30	119,473	2,814	5,301	127,588	33,780	161,368
December 31	114,623	2,667	5,688	122,979	28,648	151,627
1997 March 31	113,631	2,372	4,572	120,575	37,544	158,119
June 30	122,075	2,050	4,751	128,876	42,529	171,404
September 30	103,113	2,375	5,338	110,826	39,111	149,937
December 31	98,826	2,414	5,597	106,837	32,879	139,717

1 Stock data for the Residential and Commercial sector are not included. See Technical Note 6 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, Schedule Q, ''Quarterly Coal Report;'' and, Form EIA-6, ''Coal Distribution Report.''

Table 46. Consumer Coal Stocks by Census Division and State, December 31, 1997
(Thousand Short Tons)

Census Division and State	Electric Utilities	Coke Plants	Other Industrial[1]	Total
New England Total	**754**	–	**62**	**816**
Connecticut	66	–	w	w
Maine	–	–	w	w
Massachusetts	389	–	w	w
New Hampshire	298	–	w	w
Rhode Island	–	–	w	w
Vermont	–	–	w	w
Middle Atlantic Total	**9,175**	**w**	**w**	**w**
New Jersey	566	–	w	w
New York	819	w	255	w
Pennsylvania	7,790	648	220	8,658
East North Central Total	**28,051**	**1,254**	**1,926**	**31,231**
Illinois	4,828	w	237	w
Indiana	5,822	442	379	6,643
Michigan	7,222	w	825	w
Ohio	6,066	87	170	6,324
Wisconsin	4,113	–	314	4,427
West North Central Total	**13,707**	–	**1,126**	**14,833**
Iowa	2,447	–	497	2,944
Kansas	2,282	–	16	2,298
Minnesota	1,737	–	257	1,994
Missouri	3,670	–	182	3,851
Nebraska	1,596	–	w	w
North Dakota	1,755	–	w	w
South Dakota	219	–	w	w
South Atlantic Total	**16,141**	**w**	**w**	**w**
Delaware	319	–	w	w
District of Columbia	–	–	–	–
Florida	3,441	–	67	3,508
Georgia	2,279	–	128	2,407
Maryland	1,188	w	16	w
North Carolina	1,912	–	112	2,024
South Carolina	1,809	–	212	2,021
Virginia	1,152	w	149	w
West Virginia	4,042	w	116	w
East South Central Total	**9,329**	**w**	**w**	**w**
Alabama	2,609	188	174	2,971
Kentucky	4,475	w	86	w
Mississippi	614	–	w	w
Tennessee	1,630	–	196	1,826
West South Central Total	**11,050**	–	**294**	**11,344**
Arkansas	934	–	20	954
Louisiana	1,248	–	10	1,258
Oklahoma	2,516	–	76	2,592
Texas	6,352	–	188	6,540
Mountain Total	**9,667**	**w**	**228**	**w**
Arizona	1,386	–	28	1,414
Colorado	2,458	–	18	2,476
Idaho	–	–	105	105
Montana	410	–	w	w
Nevada	812	–	w	w
New Mexico	795	–	w	w
Utah	2,309	w	3	w
Wyoming	1,498	–	57	1,555
Pacific Total	**952**	–	**212**	**1,163**
Alaska	*	–	–	*
California	–	–	118	118
Hawaii	–	–	w	w
Oregon	83	–	w	w
Washington	868	–	14	882
U.S. Total	**98,826**	**2,414**	**5,597**	**106,837**

[1] Manufacturing plants only.
* Rounded to zero.
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 6 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 47. Coal Stocks at Electric Utility Plants by Census Division and State

(Thousand Short Tons)

Census Division and State	December 31, 1997	September 30, 1997	December 31, 1996	Percent Difference December 31: 1997 versus 1996
New England Total	**754**	**987**	**1,236**	**–39.0**
Connecticut	66	148	173	–61.8
Maine	–	–	–	–
Massachusetts	389	570	704	–44.7
New Hampshire	298	269	359	–17.0
Rhode Island	–	–	–	–
Vermont	–	–	–	–
Middle Atlantic Total	**9,175**	**9,040**	**9,606**	**–4.5**
New Jersey	566	526	824	–31.3
New York	819	642	905	–9.5
Pennsylvania	7,790	7,872	7,878	–1.1
East North Central Total	**28,051**	**28,021**	**27,618**	**1.6**
Illinois	4,828	4,879	4,578	5.4
Indiana	5,822	6,342	7,103	–18.0
Michigan	7,222	6,249	6,530	10.6
Ohio	6,066	6,186	5,229	16.0
Wisconsin	4,113	4,367	4,178	–1.5
West North Central Total	**13,707**	**14,546**	**17,107**	**–19.9**
Iowa	2,447	2,852	4,042	–39.5
Kansas	2,282	2,205	2,968	–23.1
Minnesota	1,737	1,948	1,461	18.9
Missouri	3,670	3,838	5,159	–28.9
Nebraska	1,596	1,538	1,691	–5.6
North Dakota	1,755	1,996	1,642	6.8
South Dakota	219	169	143	53.4
South Atlantic Total	**16,141**	**17,123**	**18,662**	**–13.5**
Delaware	319	331	322	–1.1
District of Columbia	–	–	–	–
Florida	3,441	3,121	3,349	2.7
Georgia	2,279	2,605	3,727	–38.9
Maryland	1,188	999	1,346	–11.7
North Carolina	1,912	2,595	2,559	–25.3
South Carolina	1,809	1,953	1,979	–8.6
Virginia	1,152	991	1,010	14.1
West Virginia	4,042	4,529	4,370	–7.5
East South Central Total	**9,329**	**9,519**	**8,514**	**9.6**
Alabama	2,609	3,275	2,526	3.3
Kentucky	4,475	4,018	4,119	8.6
Mississippi	614	650	602	1.9
Tennessee	1,630	1,575	1,266	28.8
West South Central Total	**11,050**	**12,761**	**19,525**	**–43.4**
Arkansas	934	906	2,701	–65.4
Louisiana	1,248	1,977	2,470	–49.5
Oklahoma	2,516	2,979	4,067	–38.1
Texas	6,352	6,899	10,287	–38.2
Mountain Total	**9,667**	**10,007**	**11,304**	**–14.5**
Arizona	1,386	1,406	1,992	–30.4
Colorado	2,458	2,934	3,027	–18.8
Idaho	–	–	–	–
Montana	410	417	508	–19.4
Nevada	812	932	1,239	–34.5
New Mexico	795	830	815	–2.5
Utah	2,309	1,890	1,526	51.3
Wyoming	1,498	1,598	2,197	–31.8
Pacific Total	**952**	**1,107**	**1,052**	**–9.5**
Alaska	*	1	1	–56.2
California	–	–	–	–
Hawaii	–	–	–	–
Oregon	83	186	203	–59.0
Washington	868	921	848	2.3
U.S. Total	**98,826**	**103,113**	**114,623**	**–13.8**

* Rounded to zero.

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

Source: Energy Information Administration, Form EIA-759, ''Monthly Power Plant Report.''

Table 48. Coal Stocks at Coke Plants by Census Division and State

(Thousand Short Tons)

Census Division and State	December 31, 1997	September 30, 1997	December 31, 1996	Percent Difference December 31: 1997 versus 1996
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	648	694	748	–13.4
East North Central Total	**1,254**	**1,152**	**1,335**	**–6.1**
Illinois	w	w	w	w
Indiana	442	517	469	–5.7
Michigan	w	w	w	w
Ohio	87	71	81	7.4
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	188	211	197	–4.4
Kentucky	w	w	w	w
Mississippi	–	–	–	–
Tennessee	–	–	–	–
West South Central Total	–	–	–	–
Arkansas	–	–	–	–
Louisiana	–	–	–	–
Oklahoma	–	–	–	–
Texas	–	–	–	–
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	193	204	230	–16.0
Furnace Coke Plants	2,221	2,171	2,437	–8.8
U.S. Total	**2,414**	**2,375**	**2,667**	**–9.5**

[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 49. Coal Stocks at Other Industrial Plants by Census Division and State

(Thousand Short Tons)

Census Division and State	December 31, 1997	September 30, 1997	December 31, 1996	Percent Difference December 31: 1997 versus 1996
New England Total	**62**	**62**	**60**	**2.7**
Connecticut	–	–	–	–
Maine	w	w	w	w
Massachusetts	w	w	w	w
New Hampshire	–	–	–	–
Rhode Island	–	–	–	–
Vermont	–	–	–	–
Middle Atlantic Total	**w**	**w**	**w**	**w**
New Jersey	w	w	w	w
New York	255	181	192	32.8
Pennsylvania	220	191	231	–4.9
East North Central Total	**1,926**	**1,712**	**1,862**	**3.5**
Illinois	237	234	252	–6.0
Indiana	379	336	384	–1.2
Michigan	825	694	827	–.2
Ohio	170	167	118	44.6
Wisconsin	314	282	281	11.9
West North Central Total	**1,126**	**1,074**	**1,220**	**–7.7**
Iowa	497	525	570	–12.8
Kansas	16	18	16	.1
Minnesota	257	192	277	–7.3
Missouri	182	178	158	14.9
Nebraska	w	w	w	w
North Dakota	w	w	w	w
South Dakota	24	25	17	40.9
South Atlantic Total	**w**	**w**	**w**	**w**
Delaware	w	w	w	w
District of Columbia	–	–	–	–
Florida	67	98	89	–24.6
Georgia	128	133	121	6.0
Maryland	16	25	30	–47.4
North Carolina	112	149	112	–.4
South Carolina	212	191	198	6.9
Virginia	149	155	133	11.9
West Virginia	116	135	136	–14.4
East South Central Total	**w**	**w**	**w**	**w**
Alabama	174	170	135	28.7
Kentucky	86	82	83	3.8
Mississippi	w	w	w	w
Tennessee	196	245	234	–16.3
West South Central Total	**294**	**241**	**361**	**–18.6**
Arkansas	20	14	18	8.6
Louisiana	w	w	w	w
Oklahoma	w	w	w	w
Texas	188	166	190	–1.1
Mountain Total	**228**	**325**	**231**	**–1.4**
Arizona	28	31	32	–12.6
Colorado	18	13	27	–33.8
Idaho	w	w	w	w
Montana	w	w	w	w
Nevada	w	w	w	w
New Mexico	w	w	w	w
Utah	3	3	5	–48.0
Wyoming	57	67	71	–20.0
Pacific Total	**212**	**158**	**222**	**–4.7**
Alaska	w	w	w	w
California	118	88	150	–21.3
Hawaii	w	w	w	w
Oregon	w	w	w	w
Washington	14	9	8	61.3
U.S. Total	**5,597**	**5,338**	**5,688**	**–1.6**

[w] Withheld to avoid disclosure of individual company data.

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

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

Table 50. U.S. Coal Stocks at Manufacturing Plants by Standard Industrial Classification (SIC) Code

(Thousand Short Tons)

SIC Code	December 31, 1997	September 30, 1997	December 31, 1996	Percent Difference December 31: 1997 versus 1996
20 Food and kindred products	731	807	753	–3.0
21 Tobacco Products	32	27	27	18.8
22 Textile Mill Products	118	99	115	2.7
23 Apparel, Other Textile Products	w	w	w	w
24 Lumber and Wood Products	w	w	w	w
25 Furniture and Fixtures	20	27	23	–13.2
26 Paper and Allied Products	1,081	1,014	1,100	–1.7
27 Printing and Publishing	w	w	w	w
28 Chemicals, Allied Products	811	809	883	–8.2
29 Petroleum and Coal Products[1]	118	100	129	–8.3
30 Rubber, Misc. Plastic Products	8	11	9	–13.2
31 Leather, leather products	w	w	w	w
32 Stone, clay, glass products	1,561	1,480	1,665	–6.2
33 Primary metal industries[2]	833	725	718	16.1
34 Fabricated Metal Products	36	38	30	19.5
35 Machinery, except Electric	71	61	89	–20.5
36 Computer, Electronic Products	w	w	w	w
37 Transportation Equipment	77	75	86	–11.3
38 Elec. Equip., Appl., Components	w	w	w	w
39 Misc. Manufacturing Industries	w	w	w	w
U.S. Total	**5,597**	**5,338**	**5,688**	**–1.6**

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. Coke and Breeze Stocks at Coke Plants

(Thousand Short Tons)

	December 31, 1997	September 30, 1997	December 31, 1996	Percent Difference December 31: 1997 versus 1996
Coke Total	1,326	1,647	1,323	0.2
By State				
Alabama	101	153	138	–26.9
Illinois	w	w	w	w
Indiana	318	362	356	–10.9
Kentucky	w	w	w	w
Michigan	w	w	w	w
New York	w	w	w	w
Ohio	76	68	44	73.1
Pennsylvania	117	187	197	–40.7
Utah	w	w	w	w
Virginia	w	w	w	w
West Virginia	w	w	w	w
By Plant Type				
Merchant Coke Plants	79	174	160	–50.7
Furnace Coke Plants	1,247	1,473	1,163	7.2
Breeze Total	141	129	161	–12.4

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.''

Table 52. Coal Stocks at Coal Producers and Distributors by Coal-Producing State

(Thousand Short Tons)

Coal-Producing State	December 31, 1997	September 30, 1997	December 31, 1996	Percent Difference December 31: 1997 versus 1996
Alabama	880	901	1,031	–14.7
Alaska	25	9	6	341.7
Arizona	2,911	2,885	2,232	30.4
Arkansas	2	3	1	12.8
Colorado	1,380	2,054	494	179.4
Illinois	1,340	1,490	1,190	12.6
Indiana	878	781	574	53.0
Kansas	–	–	19	–
Kentucky Total	5,509	7,260	4,460	23.5
Eastern	4,191	6,338	3,720	12.7
Western	1,318	922	740	78.2
Louisiana	152	161	38	304.0
Maryland	255	289	143	78.4
Missouri	1	–	–	–
Montana	682	802	580	17.6
New Mexico	1,042	1,683	1,890	–44.9
North Dakota	1,965	2,071	1,574	24.8
Ohio	820	686	532	54.1
Oklahoma	–	–	7	–
Pennsylvania Total	2,125	2,003	3,113	–31.7
Anthracite	398	259	1,323	–69.9
Bituminous	1,727	1,744	1,790	–3.5
Tennessee	22	58	23	–4.4
Texas	1,506	1,832	1,254	20.1
Utah	2,097	2,016	1,337	56.8
Virginia	2,156	2,103	1,644	31.1
Washington	–	1	55	–
West Virginia Total	5,097	8,261	4,947	3.0
Northern	773	1,293	584	32.4
Southern	4,324	6,967	4,362	–.9
Wyoming	2,017	1,763	1,504	34.1
Appalachian Total	**15,546**	**20,636**	**15,153**	**2.6**
Interior Total	**5,196**	**5,190**	**3,823**	**35.9**
Western Total	**12,119**	**13,285**	**9,672**	**25.3**
East of the Miss. River	**19,082**	**23,830**	**17,657**	**8.1**
West of the Miss. River	**13,779**	**15,281**	**10,991**	**25.4**
U.S. Total	**32,861**	**39,111**	**28,648**	**14.7**

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

Appendix A

U.S. Coal Imports

Appendix A

U.S. Coal Imports

In the fourth quarter of 1997, U.S. coal imports totaled 2.2 milion short tons, 24 percent above the fourth quarter 1996 total of 1.8 million short tons (Table A2). Higher deliveries from Colombia and Venezeula accounted for most of the quarterly increase. Colombia was the leading source of imported coal in the fourth quarter in 1997, followed by Venezuela, Indonesia, and Canada.

U.S. coal imports for 1997 amounted to 7.5 million short tons, 5 percent higher than the 1996 total of 7.1 million short tons. Despite lower deliveries from Canada and Indonesia (down 15 percent and 7 percent, respectively), most of the increase can be attributed to higher shipments from Colombia and Venezuela, which climbed 23 percent and 4 percent, respectively, above their 1996 totals. Colombia continued as the top source of U.S. coal imports in 1997 with 3.1 million short tons, representing 42 percent of total U.S. coal imports. Venezuela, which delivered 1.5 million short tons of coal to the United States in 1997 (20 percent of all imported coal) was the second largest foreign supplier. They were followed by Indonesia with a total of 1.4 million short tons, and Canada with 1.2 million short tons for the year (19 percent and 16 percent of total U.S. coal imports, respectively.)

Receipts of imported coal at electric utilities in the fourth quarter of 1997 totaled 1.4 million short tons, 25 percent above the comparable quarter a year ago. The primary reason for the increase was larger shipments from Colombia and Venezuela.

This brought the total for 1997 to over 4.8 milion short tons (65 percent of all imported coal), 4 percent above the 1996 level. Most of the increase was in higher shipments from Colombia to New England Power's Brayton Point and Salem Harbor plants, and from Venezuela to Central Hudson Gas and Electric's Danskammer plant and Public Service Co. of New Hampshire's Schiller plant. The growth in shipments from Venezuela to those plants was offset primarily by lower shipments to New England Power's Salem Harbor and Brayton Point plants and Gulf Power's Crist plant(Table A5).

The value of imported coal for the fourth quarter of 1997 was $77 million, based on an average quarterly price of $34.49 per short ton. In 1997, U.S. coal imports were valued at $257 million, based on an average annual price of $34.32 per short ton, 3 percent above the 1996 average annual price of $33.45 per short ton (Table A1). Of the major foreign suppliers, the largest average annual price increase was for Canadian coal at $36.80 per short ton, 12 percent above their 1996 average annual price of $32.86 per short ton (Table A4).

Table A1. Quantity and Average Price of U.S. Coal Imports, 1991-1997
(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
1991	938	$33.71	730	$34.60	984	$31.45	738	$33.16	**3,390**	**$33.12**
1992	679	33.63	1,043	32.96	882	34.43	1,199	33.08	**3,803**	**33.46**
1993	1,213	30.70	1,093	32.26	2,142	29.52	2,861	28.91	**7,309**	**29.89**
1994	1,850	28.86	1,577	28.73	2,304	30.92	1,853	31.93	**7,584**	**30.21**
1995	1,795	32.33	1,609	36.16	1,725	33.61	2,071	34.54	**7,201**	**34.13**
1996	1,713	33.52	1,552	32.46	2,071	33.19	1,790	34.55	**7,126**	**33.45**
1997	1,331	33.85	1,708	35.26	2,222	33.69	2,226	34.49	**7,487**	**34.32**

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, 1991-1997

(Thousand Short Tons and Dollars per Short Ton)

Year and Quarter	Australia	Canada	Colombia	Indonesia	Malaysia	Venezuela	Other Countries	Total
				Quantity				
1991	31	935	1,881	7	–	535	*	**3,390**
1992	101	1,021	1,763	253	53	539	72	**3,803**
1993	100	1,051	4,117	708	–	1,298	34	**7,309**
1994	92	1,253	3,390	1,130	–	1,531	188	**7,584**
1995	212	1,320	2,737	1,018	–	1,846	68	**7,201**
1996								
January - March	78	364	629	248	–	394	*	**1,713**
April - June	–	331	551	303	–	367	*	**1,552**
July - September	24	359	804	469	–	411	4	**2,071**
October - December	63	372	542	515	–	292	6	**1,790**
Total	**165**	**1,427**	**2,527**	**1,535**	–	**1,463**	**10**	**7,126**
1997								
January - March	54	181	492	396	–	147	61	**1,331**
April - June	30	318	875	187	–	290	8	**1,708**
July - September	–	308	1,042	394	–	455	23	**2,222**
October - December	31	406	708	449	–	623	9	**2,226**
Total	**116**	**1,212**	**3,117**	**1,426**	–	**1,514**	**103**	**7,487**
				Average Price				
1991	$37.97	$25.10	$32.87	–	–	$40.87	–	**$32.34**
1992	36.07	27.88	32.25	$40.94	$47.06	35.61	$25.72	**32.48**
1993	31.56	29.02	27.26	42.70	–	28.87	26.22	**29.36**
1994	30.02	30.61	27.46	33.80	–	32.41	29.33	**29.98**
1995	30.99	32.59	31.15	35.13	–	35.14	46.29	**33.11**
1996								
January - March	33.84	28.55	31.15	39.04	–	33.74	22.68	**32.60**
April - June	–	32.34	30.75	32.83	–	28.06	–	**30.76**
July - September	32.51	34.53	31.55	29.87	–	30.19	33.92	**31.23**
October - December	33.22	37.23	32.13	31.42	–	31.97	34.11	**32.66**
Total	**33.41**	**32.86**	**31.40**	**32.45**	–	**30.97**	**33.43**	**31.82**
1997								
January - March	33.80	26.87	31.98	31.82	–	31.64	–	**31.32**
April - June	34.95	39.87	32.64	36.48	–	33.23	–	**34.48**
July - September	–	37.67	32.38	32.04	–	32.01	49.09	**33.02**
October - December	31.45	38.18	31.17	32.86	–	34.57	49.22	**33.64**
Total	**33.47**	**36.80**	**32.11**	**32.82**	–	**33.26**	**49.12**	**33.25**

* 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 $55, inclusively. Therefore, the *Total* price column in this table will not equal the *U.S. Total* prices in Table A1. Coal imports include coal to Puerto Rico and the Virgin Islands.

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

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

Customs District	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
U.S. Total	**2,225,649**	**2,222,154**	**1,789,683**	**7,486,776**	**7,125,848**	**5.1**
			Exporting Country: Australia			
Honolulu, HI	31,052	–	63,106	115,510	164,793	–29.9
Total	**31,052**	–	**63,106**	**115,510**	**164,793**	**–29.9**
			Exporting Country: Canada			
Chicago, IL	123,466	113,555	57,275	329,778	238,592	38.2
Detroit, MI	162,299	95,022	127,448	388,674	374,566	3.8
Duluth, MN	–	–	67,122	416	291,346	–99.9
Great Falls, MT	1	–	–	282	25	NM
Pembina, ND	96,101	84,290	112,669	410,509	501,752	–18.2
Buffalo, NY	22	22	–	44	219	–79.9
Ogdensburg, NY	–	–	–	–	50	–
Seattle, WA	23,831	14,872	7,828	81,854	19,954	310.2
Total	**405,720**	**307,761**	**372,342**	**1,211,557**	**1,426,504**	**–15.1**
			Exporting Country: Colombia			
Mobile, AL	61,968	53,408	31,417	214,241	160,781	33.3
Tampa, FL	298,169	457,792	316,915	1,320,515	1,419,408	–7.0
New Orleans, LA	–	–	772	–	772	–
Boston, MA	105,816	387,200	167,453	1,021,755	812,290	25.8
Portland, ME	–	28,357	25,903	62,511	90,037	–30.6
Pembina, ND	–	–	–	–	26	–
Buffalo, NY	–	–	–	–	31	–
New York City, NY	55,797	86,804	–	215,750	–	–
Philadelphia, PA	–	–	–	–	27,364	–
San Juan, PR	27,668	28,473	–	123,894	10,073	NM
Houston-Galveston, TX	122,284	–	–	122,284	6,022	NM
Virgin Islands	36,172	–	–	36,172	–	–
Total	**707,874**	**1,042,034**	**542,460**	**3,117,122**	**2,526,804**	**23.4**
			Exporting Country: Indonesia			
Honolulu, HI	173,876	174,427	176,363	643,874	645,383	–0.2
New Orleans, LA	234,276	219,944	298,310	741,271	807,820	–8.2
Portland, ME	40,771	–	39,895	40,771	81,783	–50.1
Total	**448,923**	**394,371**	**514,568**	**1,425,916**	**1,534,986**	**–7.1**
			Exporting Country: Venezuela			
Mobile, AL	–	–	–	–	127,703	–
Miami, FL	38,591	–	–	38,591	–	–
Savannah, GA	16,750	92,415	–	178,085	118,509	50.3
New Orleans, LA	58,643	–	–	58,643	–	–
Boston, MA	250,243	165,868	233,755	511,554	990,944	–48.4
Portland, ME	105,298	36,374	–	263,486	75,032	251.2
New York City, NY	108,245	92,310	–	302,282	–	–
Philadelphia, PA	12,190	44,502	27,688	83,918	63,820	31.5
San Juan, PR	32,746	23,168	30,212	77,519	86,828	–10.7
Total	**622,706**	**454,637**	**291,655**	**1,514,078**	**1,462,836**	**3.5**
			Other Exporting Countries			
Los Angeles, CA	–	–	2	149	2	NM
Miami, FL	–	–	–	13	–	–
Honolulu, HI	–	–	–	1	–	–
New Orleans, LA	–	–	–	41,005	–	–
Boston, MA	201	–	–	201	–	–
Baltimore, MD	–	–	–	–	99	–
Detroit, MI	–	4	–	4	–	–
St Louis, MO	–	–	–	–	1	–
Buffalo, NY	1,144	2,393	407	6,016	2,408	149.8
New York City, NY	11	–	–	11	65	–83.1
Portland, OR	6,942	–	–	20,383	–	–
Houston-Galveston, TX	–	20,457	29	32,581	41	NM
Laredo, TX	–	–	5,114	353	7,309	–95.2
Norfolk, VA	–	19	–	19	–	–
Milwaukee, WI	1,076	478	–	1,857	–	–
Total	**9,374**	**23,351**	**5,552**	**102,593**	**9,925**	**NM**

NM Changes of 500 percent or more are not shown.

Table A4. Average Price of U.S. Coal Imports by Origin and by Customs District

(Dollars per Short Ton)

Customs District	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
Total	**$33.64**	**$33.02**	**$32.66**	**$33.25**	**$31.82**	**4.5**
			Exporting Country: Australia			
Honolulu, HI	$31.45	–	$33.22	$33.47	$33.41	0.2
Total	**31.45**	–	**33.22**	**33.47**	**33.41**	**.2**
			Exporting Country: Canada			
Chicago, IL	$46.88	$42.68	–	$45.13	$22.38	101.6
Detroit, MI	43.33	44.64	$44.81	43.56	44.03	–1.1
Duluth, MN	–	–	–	40.19	48.96	–17.9
Great Falls, MT	–	–	–	23.96	–	–
Pembina, ND	23.79	23.61	28.40	24.90	25.35	–1.8
Seattle, WA	29.61	29.60	28.02	29.07	28.12	3.4
Total	**38.18**	**37.67**	**37.23**	**36.80**	**32.86**	**12.0**
			Exporting Country: Colombia			
Mobile, AL	$28.98	$28.96	$29.04	$29.06	$28.35	2.5
Tampa, FL	31.91	31.83	31.70	31.94	31.98	–.1
New Orleans, LA	–	–	32.64	–	32.64	–
Boston, MA	32.23	33.24	33.38	32.82	30.55	7.4
Portland, ME	–	23.60	32.92	24.56	33.45	–26.6
New York City, NY	34.95	36.17	–	36.18	–	–
Philadelphia, PA	–	–	–	–	37.73	–
San Juan, PR	32.93	32.93	–	35.01	32.30	8.4
Houston-Galveston, TX	28.07	–	–	28.07	34.47	–18.6
Virgin Islands	29.03	–	–	29.03	–	–
Total	**31.17**	**32.38**	**32.13**	**32.11**	**31.40**	**2.3**
			Exporting Country: Indonesia			
Honolulu, HI	$44.63	$42.93	$44.74	$43.64	$43.90	–0.6
New Orleans, LA	23.41	23.41	21.41	23.20	22.03	5.3
Portland, ME	37.00	–	47.30	37.00	45.05	–17.9
Total	**32.86**	**32.04**	**31.42**	**32.82**	**32.45**	**1.1**
			Exporting Country: Venezuela			
Mobile, AL	–	–	–	–	$40.79	–
Miami, FL	$37.60	–	–	$37.60	–	–
Savannah, GA	20.39	$23.07	–	21.78	22.01	–1.1
New Orleans, LA	27.99	–	–	27.99	–	–
Boston, MA	38.15	35.89	$31.07	36.69	30.33	21.0
Portland, ME	32.79	30.36	–	32.78	28.03	16.9
New York City, NY	32.34	36.14	–	35.10	–	–
Philadelphia, PA	30.78	29.06	39.19	32.41	39.14	–17.2
San Juan, PR	37.16	31.75	32.30	34.19	32.53	5.1
Total	**34.57**	**32.01**	**31.97**	**33.26**	**30.97**	**7.4**
			Other Exporting Countries			
Boston, MA	$41.20	–	–	$41.20	–	–
Portland, OR	49.45	–	–	49.45	–	–
Houston-Galveston, TX	–	$49.09	–	49.09	–	–
Laredo, TX	–	–	$34.11	–	$33.43	–
Total	**49.22**	**49.09**	**34.11**	**49.12**	**33.43**	**46.9**

Notes: Total may not equal sum of components because of independent rounding. Average price is based on the customs import value. Beginning in 1989, the average prices presented in this table are representative prices for coal imports that fall within the range of $20 and $55, inclusively. Therefore, the *Total* price column in this table will not equal the *U.S. Total* prices in Table A1.

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

Table A5. Imported Coal Received at Electric Utility Plants by Origin

(Short Tons)

Company and Plant	October - December 1997	July - September 1997	October - December 1996	Year to Date		
				1997	1996	Percent Change
U.S. Total	**1,396,712**	**1,611,562**	**1,116,209**	**4,871,070**	**4,699,321**	**3.7**
Exporting Country: Canada						
Takoma Dept. of Public Utilities, Steam No.2	–	5,220	6,500	9,590	18,030	–46.8
Total	**–**	**5,220**	**6,500**	**9,590**	**18,030**	**–46.8**
Exporting Country: Colombia						
Central Hudson Gas & Electric, Danskammer	80,250	–	–	80,250	–	–
Central Power and Light (CSW), Coleto Creek	26,044	–	–	26,044	–	–
City Public Service, San Antonio JT Deely/Spruce	73,000	–	–	73,000	–	–
Jacksonville Electric Authority, St Johns River	388,270	432,460	316,920	1,385,340	1,417,220	–2.2
New England Power (NEES), Brayton Point	121,800	275,300	96,700	668,500	427,500	56.4
New England Power (NEES), Salem Harbor	36,700	132,900	25,400	409,100	202,900	101.6
Public Serv Co of New Hampshire, Schiller	35,360	–	–	35,360	32,325	9.4
Total	**761,424**	**840,660**	**439,020**	**2,677,594**	**2,079,945**	**28.7**
Exporting Country: Indonesia						
Public Serv Co of New Hampshire, Merrimack	40,771	–	–	40,771	–	–
Public Serv Co of New Hampshire, Schiller	–	–	25,903	–	25,903	–
Tampa Electric, Davant Transfer	234,274	219,942	298,307	741,264	807,803	–8.2
Total	**275,045**	**219,942**	**324,210**	**782,035**	**833,706**	**–6.2**
Exporting Country: Venezuela						
Central Hudson Gas & Electric, Danskammer	91,250	168,200	–	417,200	–	–
Gulf Power, Crist	–	–	–	–	205,950	–
Gulf Power, Smith	–	–	–	–	92,250	–
New England Power (NEES), Brayton Point	70,100	110,700	101,300	292,500	572,400	–48.9
New England Power (NEES), Salem Harbor	90,400	–	148,400	90,400	563,100	–83.9
Public Serv Co of New Hampshire, Merrimack	–	–	39,900	–	39,900	–
Public Serv Co of New Hampshire, Schiller	–	101,550	28,879	228,969	56,133	307.9
Savannah Electric and Power, Port Wentworth	49,850	130,290	–	279,139	209,907	33.0
Tampa Electric, Davant Transfer	58,643	–	–	58,643	–	–
United Illuminating Co, Bridgeport Harbor	–	35,000	28,000	35,000	28,000	25.0
Total	**360,243**	**545,740**	**346,479**	**1,401,851**	**1,767,640**	**–20.7**

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, 1991-1997

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						
1993	224.0	12,354	0.64	6.32	149.8	37.02
1994	88.0	12,379	.66	7.36	147.3	36.46
Company and Plant: Cajun Electric Power Coop, Big Cajun No. 2						
Indonesia						
1994	169.2	9,702	0.10	1.20	166.8	32.36
Company and Plant: Carolina Power and Light, Sutton						
Colombia						
1994	26.6	12,200	0.70	9.00	145.5	35.50
Company and Plant: Central Hudson Gas & Electric, Danskammer						
Colombia						
1997						
October - December	80.2	13,062	0.63	7.07	169.5	44.29
Total	**80.2**	**13,062**	**.63**	**7.07**	**169.5**	**44.29**
Venezuela						
1995	28.2	13,281	.56	7.30	224.1	59.53
1997						
January - March	69.4	13,181	.66	6.35	174.9	46.11
April - June	88.3	13,416	.64	5.45	174.0	46.69
July - September	168.2	13,045	.66	6.90	173.6	45.31
October - December	91.2	13,033	.64	7.09	170.1	44.33
Total	**417.2**	**13,144**	**.65**	**6.54**	**173.2**	**45.52**
Company and Plant: City Public Service, San Antonio JT Deely/Spruce						
Colombia						
1997						
October - December	73.0	11,603	0.34	3.89	176.9	41.06
Total	**73.0**	**11,603**	**.34**	**3.89**	**176.9**	**41.06**
Company and Plant: Central Power and Light (CSW), Coleto Creek						
Colombia						
1992	37.2	12,892	0.62	7.90	174.5	44.99
1993	122.5	12,109	.60	5.90	148.5	35.98
1994	153.4	11,929	.55	5.03	148.9	35.51
1997						
October - December	26.0	11,665	.47	6.00	173.2	40.41
Total	**26.0**	**11,665**	**.47**	**6.00**	**173.2**	**40.41**
Venezuela						
1992	42.5	13,214	.66	7.20	175.8	46.46
Company and Plant: Delmarva Power & Light, Edgemoor						
Colombia						
1994	22.0	12,370	0.58	5.98	168.2	41.61
Company and Plant: Delmarva Power and Light, Indian River						
Colombia						
1995	7.1	13,141	0.75	7.07	180.3	47.39

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1991-1997 (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: Detroit Edison Co, River Rouge						
Canada						
1994	57.0	11,005	0.23	10.28	149.9	32.99
Company and Plant: Florida Power Corp, IMT Transfer						
Venezuela						
1994	84.4	12,778	0.64	6.50	156.3	39.93
Company and Plant: Gulf Power, Crist						
Colombia						
1993	280.2	11,983	0.59	5.53	188.5	45.18
1994	29.8	12,239	.59	5.30	160.9	39.38
Venezuela						
1993	234.8	12,992	.59	6.11	172.2	44.75
1994	283.4	12,252	1.03	6.28	216.9	53.15
1995	776.7	12,363	.92	6.29	230.9	57.09
1996						
January - March	143.8	12,242	.94	6.06	231.6	56.70
April - June	62.1	12,181	.98	5.52	228.2	55.60
Total	**205.9**	**12,224**	**.95**	**5.90**	**230.6**	**56.37**
Company and Plant: Gulf Power, Scholtz						
Colombia						
1993	7.5	12,170	0.62	7.50	164.4	40.01
Venezuela						
1993	16.0	12,958	.58	6.10	170.6	44.20
Company and Plant: Gulf Power, Smith						
Colombia						
1993	198.2	11,823	0.61	5.96	184.6	43.65
1994	286.6	12,299	.61	4.17	172.3	42.39
South Africa						
1994	127.3	11,318	.65	12.60	181.1	41.00
Venezuela						
1994	53.8	12,272	.96	6.52	229.1	56.24
1995	114.6	12,202	1.00	6.52	236.1	57.63
1996						
January - March	83.0	12,193	.96	5.98	234.9	57.28
April - June	9.3	11,978	1.26	6.50	232.8	55.77
Total	**92.2**	**12,171**	**.99**	**6.03**	**234.7**	**57.13**
Company and Plant: Holyoke Water Power (NU), Mount Tom						
Indonesia						
1994	7.9	12,651	0.43	3.30	195.4	49.44
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	1,418.6	11,897	.71	6.91	150.0	35.70
1993	2,291.2	11,849	.68	7.21	136.9	32.44
1994	2,032.1	11,883	.69	7.40	135.6	32.22
1995	1,340.6	11,826	.67	7.52	151.5	35.82

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1991-1997 (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						
1996						
January - March	304.1	11,824	0.63	7.50	153.4	36.27
April - June	231.5	11,798	.63	7.80	153.5	36.21
July - September	564.7	11,802	.66	7.95	153.2	36.17
October - December	316.9	11,820	.70	7.41	151.4	35.78
Total	**1,417.2**	**11,810**	**.66**	**7.71**	**152.9**	**36.11**
1997						
January - March	138.9	11,813	.70	7.30	152.0	35.91
April - June	425.7	11,809	.72	7.49	151.4	35.76
July - September	432.5	11,913	.98	7.27	148.4	35.35
October - December	388.3	11,841	.65	7.57	150.1	35.55
Total	**1,385.3**	**11,851**	**.78**	**7.42**	**150.1**	**35.59**
Venezuela						
1991	42.2	12,913	.56	8.90	126.9	32.77
Company and Plant: Mississippi Power (Southern Co), Daniel						
Indonesia						
1993	67.5	9,745	0.08	1.23	168.9	32.92
Company and Plant: New England Power (NEES), Brayton Point						
Colombia						
1993	187.2	12,144	0.64	5.42	178.5	43.35
1994	51.3	12,131	.65	5.60	172.2	41.78
1995	307.8	12,218	.60	5.22	164.6	40.23
1996						
January - March	104.1	11,740	.64	5.45	156.7	36.80
April - June	124.8	12,138	.58	5.50	172.2	41.80
July - September	101.9	12,095	.55	5.59	168.0	40.63
October - December	96.7	12,063	.58	5.57	174.1	42.02
Total	**427.5**	**12,014**	**.59**	**5.52**	**168.0**	**40.35**
1997						
January - March	112.1	12,030	.63	6.04	179.7	43.25
April - June	159.3	12,190	.64	6.16	154.6	37.68
July - September	275.3	12,093	.63	5.54	158.6	38.35
October - December	121.8	12,169	.66	5.62	183.0	44.54
Total	**668.5**	**12,119**	**.64**	**5.79**	**165.6**	**40.14**
Venezuela						
1991	83.7	13,390	.77	7.55	167.3	44.81
1992	129.0	13,375	.75	7.32	165.2	44.18
1993	239.9	13,132	.71	7.83	162.5	42.67
1994	351.2	12,955	.71	7.03	154.2	39.95
1995	510.6	12,788	.69	7.03	160.0	40.92
1996						
January - March	40.7	12,958	.75	7.30	158.6	41.11
April - June	242.1	12,800	.67	6.31	154.9	39.65
July - September	188.3	13,128	.64	5.85	173.4	45.52
October - December	101.3	12,901	.67	6.64	160.8	41.49
Total	**572.4**	**12,937**	**.67**	**6.29**	**162.4**	**42.01**
1997						
January - March	27.8	12,705	.75	8.48	162.2	41.21
April - June	83.9	13,136	.72	6.23	163.6	42.98
July - September	110.7	13,203	.65	5.58	164.6	43.47
October - December	70.1	13,143	.67	6.86	169.3	44.49
Total	**292.5**	**13,122**	**.68**	**6.35**	**165.2**	**43.36**
Company and Plant: New England Power (NEES), Salem Harbor						
Canada						
1992	32.8	13,569	1.40	3.82	174.9	47.46

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1991-1997 (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						
1994	84.2	12,017	0.57	6.07	159.9	38.44
1995	250.1	12,166	.60	5.26	147.9	35.99
1996						
January - March	88.0	12,148	.58	5.62	146.7	35.63
April - June	43.9	12,095	.60	5.59	146.7	35.49
July - September	45.6	12,041	.58	6.60	146.8	35.35
October - December	25.4	11,802	.49	5.11	161.9	38.21
Total	**202.9**	**12,069**	**.57**	**5.77**	**148.6**	**35.86**
1997						
January - March	85.6	12,121	.72	6.69	176.8	42.85
April - June	153.9	12,078	.62	6.21	151.7	36.63
July - September	132.9	12,120	.60	5.85	184.8	44.80
October - December	36.7	12,087	.62	5.91	145.5	35.18
Total	**409.1**	**12,101**	**.63**	**6.17**	**167.2**	**40.46**
Venezuela						
1992	34.8	12,893	.58	7.02	145.3	37.47
1993	236.2	12,921	.57	6.65	162.5	41.99
1994	565.5	12,678	.64	6.49	159.6	40.47
1995	393.1	12,846	.65	6.34	162.4	41.72
1996						
January - March	150.9	12,856	.72	6.25	153.4	39.43
April - June	126.7	12,784	.71	6.02	169.3	43.29
July - September	137.1	13,027	.69	5.98	154.2	40.17
October - December	148.4	12,732	.66	6.38	147.1	37.45
Total	**563.1**	**12,849**	**.70**	**6.17**	**155.5**	**39.96**
1997						
October - December	90.4	12,934	.69	5.82	156.8	40.58
Total	**90.4**	**12,934**	**.69**	**5.82**	**156.8**	**40.58**
Company and Plant: Ohio Edison, Burger Plant						
Indonesia						
1992	13.1	9,587	0.14	1.20	166.9	32.00
Company and Plant: Public Serv Co of Indiana, Gallagher						
Indonesia						
1993	11.1	9,242	0.13	1.35	104.8	19.38
Company and Plant: Public Serv Co of New Hampshire, Merrimack						
Colombia						
1995	11.5	11,578	0.53	3.80	192.9	44.67
Indonesia						
1993	21.2	12,620	.49	3.80	186.5	47.07
1997						
October - December	40.8	12,300	.49	4.50	190.7	46.92
Total	**40.8**	**12,300**	**.49**	**4.50**	**190.7**	**46.92**
Venezuela						
1993	24.9	12,920	.58	6.00	163.2	42.17
1996						
October - December	39.9	12,370	.39	3.70	213.2	52.75
Total	**39.9**	**12,370**	**.39**	**3.70**	**213.2**	**52.75**
Company and Plant: Public Serv Co of New Hampshire, Schiller						
Colombia						
1992	48.4	12,428	0.61	6.31	157.2	39.08
1993	52.1	12,861	.64	7.49	150.0	38.59

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1991-1997 (Continued)

Exporting Country and Time Period	Quantity (thousand short tons)	Average Quality[1]			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Public Serv Co of New Hampshire, Schiller						
Colombia						
1994	163.3	12,505	0.62	5.55	135.5	33.89
1995	122.9	12,733	.62	6.70	160.0	40.73
1996						
January - March	32.3	12,169	.66	5.68	161.9	39.41
Total	**32.3**	**12,169**	**.66**	**5.68**	**161.9**	**39.41**
1997						
October - December	35.4	13,231	.63	6.70	160.1	42.37
Total	**35.4**	**13,231**	**.63**	**6.70**	**160.1**	**42.37**
Indonesia						
1993	16.0	12,620	.49	3.80	161.3	40.71
1994	113.0	12,360	.53	3.58	158.7	39.23
1995	79.7	12,300	.52	4.56	167.8	41.28
1996						
October - December	25.9	12,412	.72	8.20	161.9	40.19
Total	**25.9**	**12,412**	**.72**	**8.20**	**161.9**	**40.19**
Venezuela						
1991	207.1	12,989	.52	5.65	173.6	45.10
1992	34.3	12,881	.58	6.76	168.0	43.29
1993	84.3	12,972	.58	6.08	138.6	35.95
1995	82.4	13,044	.71	7.24	156.5	40.84
1996						
July - September	27.3	13,052	.62	6.30	160.0	41.77
October - December	28.9	13,069	.71	5.80	159.7	41.74
Total	**56.1**	**13,061**	**.67**	**6.04**	**159.8**	**41.75**
1997						
January - March	28.5	11,669	.88	7.90	160.0	37.34
April - June	98.9	12,707	.66	5.50	161.9	41.15
July - September	101.5	11,893	.63	6.24	159.7	38.00
Total	**229.0**	**12,217**	**.67**	**6.13**	**160.7**	**39.27**
Company and Plant: Public Serv Electric & Gas-NJ, Hudson						
Colombia						
1994	22.5	12,870	0.68	6.90	166.9	42.96
Company and Plant: Savannah Electric and Power, Port Wentworth						
Colombia						
1994	11.9	11,235	0.69	5.87	214.1	48.12
Venezuela						
1994	16.8	12,575	1.12	8.60	168.0	42.25
1996						
January - March	28.3	12,303	1.07	5.90	193.2	47.54
April - June	102.9	12,320	.98	5.46	141.5	34.86
July - September	78.7	11,855	1.21	8.63	153.1	36.30
Total	**209.9**	**12,143**	**1.08**	**6.71**	**152.8**	**37.11**
1997						
January - March	38.4	11,867	1.60	8.20	136.6	32.42
April - June	60.6	11,867	1.58	8.20	138.1	32.79
July - September	130.3	12,115	1.20	7.64	139.0	33.67
October - December	49.8	11,682	.85	6.94	119.9	28.01
Total	**279.1**	**11,949**	**1.28**	**7.72**	**135.1**	**32.29**
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	15.3	9,993	.42	12.95	214.7	42.90
1993	29.2	10,036	.48	12.60	179.5	36.03
1994	6.3	9,806	.48	12.80	178.0	34.91

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1991-1997 (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						
1995	23.8	10,066	0.47	13.14	166.0	33.42
1996						
April - June	11.5	9,892	.44	13.13	174.4	34.51
October - December	6.5	9,806	.44	12.68	175.0	34.32
Total	**18.0**	**9,861**	**.44**	**12.97**	**174.6**	**34.44**
1997						
January - March	4.4	9,979	.36	12.97	176.0	35.13
July - September	5.2	10,283	.48	11.65	171.0	35.17
Total	**9.6**	**10,144**	**.43**	**12.25**	**173.2**	**35.15**
Company and Plant: Tampa Electric, Big Bend[2]						
Indonesia						
1991	24.3	9,815	0.07	1.20	227.3	44.62
Company and Plant: Tampa Electric, Davant Transfer						
Colombia						
1993	222.2	10,844	0.62	7.63	166.6	36.13
Indonesia						
1994	147.2	9,871	.09	1.10	143.0	28.24
1995	348.9	9,696	.31	1.16	143.8	27.88
1996						
January - March	77.2	9,813	.11	1.30	149.7	29.38
April - June	141.1	9,737	.44	1.40	149.7	29.15
July - September	291.3	9,516	.17	1.48	149.7	28.49
October - December	298.3	9,713	.40	1.55	149.7	29.08
Total	**807.8**	**9,655**	**.29**	**1.48**	**149.7**	**28.91**
1997						
January - March	218.8	9,482	.37	1.67	161.3	30.59
April - June	68.2	9,521	.32	1.50	163.3	31.10
July - September	219.9	9,736	.35	1.20	163.3	31.80
October - December	234.3	9,649	.34	1.43	163.3	31.52
Total	**741.3**	**9,614**	**.35**	**1.44**	**162.7**	**31.29**
Venezuela						
1993	61.4	11,056	1.48	9.78	220.7	48.80
1997						
October - December	58.6	12,953	1.47	3.50	130.2	33.73
Total	**58.6**	**12,953**	**1.47**	**3.50**	**130.2**	**33.73**
Company and Plant: United Illuminating Co, Bridgeport Harbor						
Venezuela						
1996						
October - December	28.0	13,174	0.61	4.10	185.0	48.74
Total	**28.0**	**13,174**	**.61**	**4.10**	**185.0**	**48.74**
1997						
July - September	35.0	13,387	.64	4.30	169.6	45.41
Total	**35.0**	**13,387**	**.64**	**4.30**	**169.6**	**45.41**
Total of U.S. Electric Utility Plants						
Canada						
1991	26.9	9,994	0.46	12.76	209.2	41.82
1992	48.1	12,432	1.09	6.72	185.1	46.01
1993	29.2	10,036	.48	12.60	179.5	36.03
1994	63.3	10,885	.26	10.53	152.4	33.19
1995	23.8	10,066	.47	13.14	166.0	33.42

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1991-1997 (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					
Canada						
1996						
April - June	11.5	9,892	0.44	13.13	174.4	34.51
October - December	6.5	9,806	.44	12.68	175.0	34.32
Total	**18.0**	**9,861**	**.44**	**12.97**	**174.6**	**34.44**
1997						
January - March	4.4	9,979	.36	12.97	176.0	35.13
July - September	5.2	10,283	.48	11.65	171.0	35.17
Total	**9.6**	**10,144**	**.43**	**12.25**	**173.2**	**35.15**
Colombia						
1991	1,582.6	11,978	.73	7.04	153.1	36.68
1992	1,504.1	11,938	.70	6.91	150.9	36.04
1993	3,585.1	11,867	.66	6.85	149.0	35.37
1994	2,971.8	11,997	.66	6.76	142.7	34.25
1995	2,040.1	11,985	.65	6.83	153.9	36.89
1996						
January - March	528.5	11,882	.63	6.67	153.4	36.46
April - June	400.2	11,936	.61	6.84	158.7	37.88
July - September	712.2	11,859	.64	7.53	155.0	36.75
October - December	439.0	11,873	.66	6.87	157.1	37.30
Total	**2,079.9**	**11,883**	**.64**	**7.04**	**155.7**	**37.01**
1997						
January - March	336.6	11,964	.68	6.72	167.7	40.12
April - June	738.9	11,947	.68	6.94	152.1	36.35
July - September	840.7	12,004	.80	6.48	157.5	37.82
October - December	761.4	12,070	.61	6.68	161.2	38.90
Total	**2,677.6**	**12,002**	**.70**	**6.69**	**158.4**	**38.01**
Indonesia						
1991	24.3	9,815	.07	1.20	227.3	44.62
1992	13.1	9,587	.14	1.20	166.9	32.00
1993	115.8	10,620	.22	2.07	166.1	35.29
1994	437.3	10,499	.22	1.82	157.4	33.06
1995	428.6	10,181	.35	1.79	149.2	30.37
1996						
January - March	77.2	9,813	.11	1.30	149.7	29.38
April - June	141.1	9,737	.44	1.40	149.7	29.15
July - September	291.3	9,516	.17	1.48	149.7	28.49
October - December	324.2	9,928	.42	2.08	150.9	29.97
Total	**833.7**	**9,741**	**.31**	**1.68**	**150.2**	**29.26**
1997						
January - March	218.8	9,482	.37	1.67	161.3	30.59
April - June	68.2	9,521	.32	1.50	163.3	31.10
July - September	219.9	9,736	.35	1.20	163.3	31.80
October - December	275.0	10,042	.36	1.89	168.3	33.80
Total	**782.0**	**9,754**	**.36**	**1.60**	**164.6**	**32.10**
South Africa						
1994	127.3	11,318	.65	12.60	181.1	41.00
Venezuela						
1991	333.0	13,080	.59	6.54	166.2	43.47
1992	240.6	13,206	.69	7.18	164.6	43.49
1993	897.5	12,874	.67	6.96	166.4	42.84
1994	1,355.2	12,649	.76	6.61	172.3	43.60
1995	1,905.7	12,610	.79	6.57	194.1	48.95
1996						
January - March	446.7	12,509	.86	6.21	195.8	48.98
April - June	543.0	12,621	.78	5.99	165.2	41.69
July - September	431.4	12,859	.76	6.43	162.9	41.90
October - December	346.5	12,804	.63	5.92	162.7	41.66
Total	**1,767.6**	**12,686**	**.77**	**6.14**	**171.7**	**43.58**
1997						
January - March	164.2	12,530	.93	7.41	161.8	40.55
April - June	331.7	12,851	.84	6.16	161.7	41.56
July - September	545.7	12,662	.78	6.52	161.1	40.80

See footnotes at the end of Table A6.

Table A6. Cost and Quality of Imported Coal Received at Electric Utility Plants by Origin, 1991-1997 (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					
Venezuela						
1997						
October - December	360.2	12,830	0.82	6.12	153.7	39.43
Total	**1,401.9**	**12,735**	**.82**	**6.44**	**159.4**	**40.60**

1 Data reported on quality of coal as received.
2 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 that Import Coal by Origin, 1991-1997

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						
1991						
Kentucky	279.0	13,031	0.65	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						
Kentucky	841.0	12,940	.70	7.64	158.0	40.89
West Virginia	1,583.0	12,700	.67	9.65	154.4	39.21
Colombia	224.0	12,354	.64	6.32	149.8	37.02
Total	**2,648.0**	**12,747**	**.68**	**8.73**	**155.2**	**39.56**
1994						
Kentucky	664.0	12,992	.72	7.72	156.5	40.66
Virginia	1.0	12,354	.74	9.30	147.2	36.37
West Virginia	2,728.0	12,496	.67	10.90	148.9	37.21
Colombia	88.0	12,379	.66	7.36	147.3	36.46
Total	**3,481.0**	**12,587**	**.68**	**10.20**	**150.3**	**37.85**
1995						
Kentucky	667.0	13,241	.73	6.41	152.5	40.39
West Virginia	2,787.0	12,457	.68	11.05	146.2	36.42
Total	**3,454.0**	**12,608**	**.69**	**10.15**	**147.5**	**37.19**
1996						
Kentucky	611.0	13,080	.74	7.09	150.9	39.48
West Virginia	3,254.0	12,437	.68	11.34	142.2	35.37
Total	**3,865.0**	**12,539**	**.69**	**10.66**	**143.6**	**36.02**
1997						
January - March						
Kentucky	95.0	13,053	.74	6.60	147.7	38.56
West Virginia	602.0	12,517	.67	11.47	142.1	35.57
Total	**697.0**	**12,590**	**.68**	**10.81**	**142.9**	**35.98**
April - June						
Kentucky	136.0	13,062	.75	6.71	148.3	38.73
West Virginia	825.0	12,483	.67	11.26	142.2	35.49
Total	**961.0**	**12,565**	**.69**	**10.62**	**143.1**	**35.95**
July - September						
Kentucky	106.0	13,135	.77	6.90	146.8	38.56
West Virginia	746.0	12,517	.66	11.41	140.5	35.17
Total	**852.0**	**12,594**	**.68**	**10.85**	**141.3**	**35.59**
October - December						
Kentucky	148.0	12,979	.75	7.06	146.5	38.03
West Virginia	698.0	12,537	.67	11.36	139.0	34.84
Total	**846.0**	**12,614**	**.69**	**10.61**	**140.3**	**35.40**
Year to Date						
Kentucky	485.0	13,051	.75	6.84	147.3	38.45
West Virginia	2,871.0	12,512	.67	11.37	140.9	35.27
Total	**3,356.0**	**12,590**	**.68**	**10.71**	**141.9**	**35.73**
Company and Plant: Cajun Electric Power Coop, Big Cajun No. 2						
1991						
West Virginia	152.5	13,180	0.60	6.15	158.6	41.80
Wyoming	5,059.3	8,451	.41	5.20	152.8	25.82
Total	**5,211.8**	**8,590**	**.42**	**5.23**	**153.0**	**26.29**
1992						
Wyoming	5,343.7	8,368	.46	5.30	147.5	24.69
Total	**5,343.7**	**8,368**	**.46**	**5.30**	**147.5**	**24.69**
1993						
Wyoming	5,701.1	8,332	.43	5.27	151.9	25.31
Total	**5,701.1**	**8,332**	**.43**	**5.27**	**151.9**	**25.31**
1994						
Colorado	37.4	11,957	.45	8.01	156.4	37.40
Wyoming	5,588.0	8,442	.36	4.93	152.2	25.70
Indonesia	169.2	9,702	.10	1.20	166.8	32.36
Total	**5,794.6**	**8,502**	**.35**	**4.84**	**152.8**	**25.97**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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: Cajun Electric Power Coop, Big Cajun No. 2						
1995						
Wyoming	5,844.5	8,469	0.35	4.99	157.6	26.69
Total	**5,844.5**	**8,469**	**.35**	**4.99**	**157.6**	**26.69**
1996						
Wyoming	5,394.2	8,500	.41	5.18	161.1	27.38
Total	**5,394.2**	**8,500**	**.41**	**5.18**	**161.1**	**27.38**
1997						
January - March						
Wyoming	1,409.0	8,486	.44	5.30	166.8	28.30
Total	**1,409.0**	**8,486**	**.44**	**5.30**	**166.8**	**28.30**
April - June						
Wyoming	1,541.5	8,464	.45	5.26	152.9	25.89
Total	**1,541.5**	**8,464**	**.45**	**5.26**	**152.9**	**25.89**
July - September						
Wyoming	1,529.0	8,447	.45	5.25	148.7	25.13
Total	**1,529.0**	**8,447**	**.45**	**5.25**	**148.7**	**25.13**
October - December						
Wyoming	1,282.5	8,475	.47	5.28	151.6	25.69
Total	**1,282.5**	**8,475**	**.47**	**5.28**	**151.6**	**25.69**
Year to Date						
Wyoming	5,762.0	8,467	.45	5.27	154.9	26.23
Total	**5,762.0**	**8,467**	**.45**	**5.27**	**154.9**	**26.23**
Company and Plant: Carolina Power and Light, Sutton						
1991						
Kentucky	141.8	12,770	1.00	9.02	192.4	49.13
West Virginia	338.2	12,403	.96	12.76	179.4	44.51
Total	**480.0**	**12,512**	**.98**	**11.65**	**183.3**	**45.87**
1992						
Kentucky	434.3	12,498	.94	9.57	152.9	38.22
West Virginia	332.4	12,354	.90	11.40	157.9	39.02
Total	**766.7**	**12,436**	**.93**	**10.36**	**155.1**	**38.57**
1993						
Kentucky	542.1	12,601	1.00	9.14	157.9	39.79
Virginia	44.9	12,693	1.13	10.10	177.5	45.06
West Virginia	36.5	12,301	.77	10.12	177.3	43.61
Total	**623.5**	**12,590**	**1.00**	**9.27**	**160.4**	**40.39**
1994						
Kentucky	373.4	12,646	1.12	9.29	159.5	40.34
Virginia	10.0	12,866	1.09	9.06	174.2	44.81
West Virginia	161.7	12,458	.88	11.77	170.7	42.54
Colombia	26.6	12,200	.70	9.00	145.5	35.50
Total	**571.7**	**12,576**	**1.03**	**9.97**	**162.3**	**40.82**
1995						
Kentucky	495.6	12,584	1.00	9.14	150.7	37.93
West Virginia	132.3	12,703	.91	9.82	164.4	41.78
Total	**627.9**	**12,609**	**.98**	**9.29**	**153.6**	**38.74**
1996						
Kentucky	936.3	12,293	1.01	10.60	150.8	37.07
West Virginia	122.2	12,729	.92	10.02	170.6	43.44
Total	**1,058.5**	**12,343**	**1.00**	**10.53**	**153.1**	**37.80**
1997						
January - March						
Kentucky	115.0	12,129	.99	11.96	149.9	36.36
West Virginia	62.5	12,810	.94	10.03	172.0	44.06
Total	**177.5**	**12,369**	**.97**	**11.28**	**157.9**	**39.07**
April - June						
Kentucky	208.1	12,403	1.11	10.67	147.0	36.47
West Virginia	8.4	12,647	.91	12.50	173.2	43.81
Total	**216.5**	**12,412**	**1.10**	**10.75**	**148.1**	**36.75**
July - September						
Kentucky	218.6	12,520	1.09	10.55	141.4	35.40
West Virginia	34.3	13,034	.97	8.37	168.8	43.99
Total	**252.9**	**12,589**	**1.07**	**10.25**	**145.2**	**36.57**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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: Carolina Power and Light, Sutton						
1997						
October - December						
Kentucky	134.2	12,455	1.21	9.84	145.3	36.20
West Virginia	8.8	13,013	.95	8.30	169.0	43.98
Total	**143.0**	**12,489**	**1.19**	**9.74**	**146.8**	**36.68**
Year to Date						
Kentucky	675.9	12,404	1.10	10.69	145.3	36.05
West Virginia	114.0	12,881	.95	9.58	170.9	44.01
Total	**789.9**	**12,473**	**1.08**	**10.53**	**149.1**	**37.20**
Company and Plant: Central Hudson Gas & Electric, Danskammer						
1991						
Kentucky	375.7	13,223	0.54	7.50	205.8	54.41
West Virginia	498.3	12,889	.60	8.32	203.9	52.57
Total	**874.0**	**13,032**	**.57**	**7.97**	**204.7**	**53.36**
1992						
Kentucky	61.5	12,983	.64	6.62	185.4	48.13
West Virginia	819.9	13,021	.59	7.56	181.8	47.35
Total	**881.4**	**13,018**	**.59**	**7.50**	**182.1**	**47.40**
1993						
West Virginia	693.0	13,097	.62	7.55	184.7	48.38
Total	**693.0**	**13,097**	**.62**	**7.55**	**184.7**	**48.38**
1994						
Kentucky	348.6	12,963	.58	7.93	188.7	48.93
West Virginia	419.7	13,185	.66	7.54	192.5	50.76
Total	**768.2**	**13,084**	**.62**	**7.72**	**190.8**	**49.93**
1995						
Kentucky	308.8	12,859	.59	8.29	193.4	49.74
West Virginia	292.5	13,112	.67	7.87	198.7	52.11
Venezuela	28.2	13,281	.56	7.30	224.1	59.53
Total	**629.5**	**12,995**	**.62**	**8.05**	**197.3**	**51.28**
1996						
Kentucky	462.4	12,822	.65	8.55	193.2	49.55
West Virginia	351.4	13,061	.68	7.86	200.5	52.38
Total	**813.8**	**12,925**	**.66**	**8.25**	**196.4**	**50.77**
1997						
January - March						
Kentucky	21.2	12,845	.59	8.79	191.0	49.07
West Virginia	104.7	13,203	.62	7.52	180.9	47.78
Venezuela	69.4	13,181	.66	6.35	174.9	46.11
Total	**195.3**	**13,156**	**.63**	**7.24**	**179.9**	**47.32**
April - June						
West Virginia	82.1	13,254	.60	8.02	174.0	46.11
Venezuela	88.3	13,416	.64	5.45	174.0	46.69
Total	**170.4**	**13,338**	**.62**	**6.69**	**174.0**	**46.41**
July - September						
Kentucky	12.3	12,909	.67	9.30	179.6	46.37
West Virginia	59.4	13,081	.66	7.92	174.4	45.63
Venezuela	168.2	13,045	.66	6.90	173.6	45.31
Total	**239.9**	**13,047**	**.66**	**7.27**	**174.1**	**45.44**
October - December						
Kentucky	38.8	12,989	.69	7.99	174.6	45.36
Colombia	80.2	13,062	.63	7.07	169.5	44.29
Venezuela	91.2	13,033	.64	7.09	170.1	44.33
Total	**210.3**	**13,036**	**.65**	**7.25**	**170.7**	**44.50**
Year to Date						
Kentucky	72.3	12,933	.66	8.45	180.2	46.62
West Virginia	246.2	13,191	.62	7.78	177.0	46.70
Colombia	80.2	13,062	.63	7.07	169.5	44.29
Venezuela	417.2	13,144	.65	6.54	173.2	45.52
Total	**815.9**	**13,131**	**.64**	**7.14**	**174.6**	**45.85**
Company and Plant: City Public Service, San Antonio JT Deely/Spruce						
1991						
Wyoming	3,930.8	8,398	0.34	5.82	126.6	21.27
Total	**3,930.8**	**8,398**	**.34**	**5.82**	**126.6**	**21.27**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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: City Public Service, San Antonio JT Deely/Spruce						
1992						
Wyoming	3,542.9	8,489	0.33	5.43	127.9	21.72
Total	**3,542.9**	**8,489**	**.33**	**5.43**	**127.9**	**21.72**
1993						
Wyoming	5,286.0	8,423	.33	5.22	118.2	19.92
Total	**5,286.0**	**8,423**	**.33**	**5.22**	**118.2**	**19.92**
1994						
Wyoming	4,606.0	8,406	.34	5.42	112.9	18.98
Total	**4,606.0**	**8,406**	**.34**	**5.42**	**112.9**	**18.98**
1995						
Colorado	22.0	10,536	.41	5.20	129.5	27.29
Texas	40.0	10,540	1.03	21.69	120.2	25.33
Wyoming	5,284.0	8,393	.36	5.71	111.1	18.66
Total	**5,346.0**	**8,418**	**.36**	**5.83**	**111.3**	**18.74**
1996						
Colorado	11.0	10,751	.59	5.10	131.2	28.21
Wyoming	5,488.0	8,333	.35	6.11	101.8	16.96
Total	**5,499.0**	**8,338**	**.35**	**6.11**	**101.9**	**16.99**
1997						
January - March						
Wyoming	1,313.0	8,317	.35	6.02	98.8	16.44
Total	**1,313.0**	**8,317**	**.35**	**6.02**	**98.8**	**16.44**
April - June						
Wyoming	1,333.0	8,332	.35	5.96	98.4	16.39
Total	**1,333.0**	**8,332**	**.35**	**5.96**	**98.4**	**16.39**
July - September						
Wyoming	995.0	8,372	.38	6.04	92.2	15.44
Total	**995.0**	**8,372**	**.38**	**6.04**	**92.2**	**15.44**
October - December						
Wyoming	1,140.0	8,388	.36	5.97	98.3	16.49
Colombia	73.0	11,603	.34	3.89	176.9	41.06
Total	**1,213.0**	**8,582**	**.36**	**5.84**	**104.7**	**17.97**
Year to Date						
Wyoming	4,781.0	8,350	.36	6.00	97.2	16.23
Colombia	73.0	11,603	.34	3.89	176.9	41.06
Total	**4,854.0**	**8,399**	**.36**	**5.96**	**98.9**	**16.61**
Company and Plant: Central Power and Light (CSW), Coleto Creek						
1991						
Colorado	1,733.6	10,753	0.38	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						
Colorado	1,778.0	10,577	.40	6.61	203.1	42.96
Colombia	122.5	12,109	.60	5.90	148.5	35.98
Total	**1,900.5**	**10,676**	**.41**	**6.56**	**199.1**	**42.51**
1994						
Colorado	1,664.9	10,760	.41	6.77	199.7	42.98
Colombia	153.4	11,929	.55	5.03	148.9	35.51
Total	**1,818.3**	**10,858**	**.42**	**6.63**	**195.0**	**42.35**
1995						
Colorado	1,724.7	11,092	.42	6.92	169.2	37.53
Wyoming	119.4	8,764	.34	5.20	163.5	28.66
Total	**1,844.1**	**10,941**	**.41**	**6.81**	**168.9**	**36.95**
1996						
Colorado	1,823.5	10,482	.39	5.77	133.8	28.06
Wyoming	188.0	8,492	.31	5.73	142.9	24.27
Total	**2,011.6**	**10,296**	**.38**	**5.77**	**134.5**	**27.70**
1997						
January - March						
Colorado	332.5	10,406	.36	5.66	132.4	27.55
Wyoming	25.6	8,768	.50	5.10	129.0	22.62
Total	**358.2**	**10,289**	**.37**	**5.62**	**132.2**	**27.20**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality[1]			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Central Power and Light (CSW), Coleto Creek						
1997						
April - June						
Colorado	281.9	10,353	0.38	6.00	129.2	26.74
Wyoming	226.7	8,707	.47	5.12	135.0	23.50
Total	**508.7**	**9,619**	**.42**	**5.61**	**131.5**	**25.30**
July - September						
Colorado	505.9	10,330	.40	6.49	137.6	28.44
Total	**505.9**	**10,330**	**.40**	**6.49**	**137.6**	**28.44**
October - December						
Colorado	396.7	10,064	.38	6.04	139.4	28.06
Colombia	26.0	11,665	.47	6.00	173.2	40.41
Total	**422.7**	**10,163**	**.38**	**6.04**	**141.8**	**28.82**
Year to Date						
Colorado	1,517.0	10,281	.38	6.10	135.3	27.83
Wyoming	252.4	8,713	.47	5.12	134.4	23.41
Colombia	26.0	11,665	.47	6.00	173.2	40.41
Total	**1,795.4**	**10,081**	**.40**	**5.96**	**135.9**	**27.39**
Company and Plant: Delmarva Power & Light, Edgemoor						
1991						
Kentucky	52.0	12,821	0.84	8.53	174.3	44.69
Virginia	38.1	13,465	.87	7.79	196.7	52.97
West Virginia	416.4	13,272	.80	7.83	184.4	48.94
Total	**506.4**	**13,240**	**.81**	**7.90**	**184.3**	**48.81**
1992						
Virginia	90.2	13,101	.82	8.68	201.3	52.74
West Virginia	463.8	13,101	.79	8.64	180.0	47.16
Total	**554.0**	**13,101**	**.80**	**8.65**	**183.4**	**48.06**
1993						
Virginia	192.3	13,209	.86	8.00	200.3	52.90
West Virginia	250.2	13,171	.81	8.63	178.0	46.88
Total	**442.5**	**13,188**	**.83**	**8.36**	**187.7**	**49.50**
1994						
Kentucky	7.0	12,991	.57	6.53	165.3	42.95
Maryland	13.3	13,070	.74	6.23	168.2	43.97
Virginia	28.6	12,995	.88	8.72	164.7	42.80
West Virginia	604.3	13,074	.79	8.74	157.9	41.29
Colombia	22.0	12,370	.58	5.98	168.2	41.61
Total	**675.2**	**13,046**	**.78**	**8.58**	**158.8**	**41.44**
1995						
Maryland	37.9	12,867	.76	9.73	161.6	41.59
Pennsylvania	.6	12,431	.82	10.42	154.7	38.46
West Virginia	432.6	12,988	.78	9.04	162.9	42.31
Total	**471.1**	**12,978**	**.78**	**9.10**	**162.8**	**42.25**
1996						
Maryland	14.7	12,868	.69	10.30	161.0	41.43
Pennsylvania	.1	12,559	.82	10.42	153.1	38.46
West Virginia	487.3	12,887	.77	9.67	160.2	41.28
Total	**502.0**	**12,886**	**.76**	**9.69**	**160.2**	**41.29**
1997						
January - March						
Pennsylvania	2.2	10,533	.62	11.40	150.1	31.62
Virginia	24.9	12,960	.88	9.84	162.3	42.08
West Virginia	126.0	12,698	.73	10.78	163.5	41.53
Total	**153.1**	**12,710**	**.75**	**10.63**	**163.2**	**41.48**
April - June						
Pennsylvania	5.2	10,839	.45	9.60	151.5	32.83
Virginia	50.7	13,258	.88	8.52	155.9	41.34
West Virginia	41.2	12,820	.78	9.77	160.0	41.02
Total	**97.1**	**12,942**	**.81**	**9.11**	**157.4**	**40.75**
July - September						
Pennsylvania	5.9	10,739	.63	12.62	151.1	32.45
Virginia	34.4	13,139	.87	9.50	155.9	40.98
West Virginia	99.7	12,848	.76	10.10	160.3	41.18
Total	**140.1**	**12,830**	**.78**	**10.06**	**158.8**	**40.76**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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: Delmarva Power & Light, Edgemoor					
1997						
October - December						
Pennsylvania	5.1	10,846	0.63	10.79	151.5	32.86
Virginia	77.6	13,293	.83	8.77	155.8	41.42
West Virginia	32.3	12,991	.82	9.31	159.7	41.50
Total	**114.9**	**13,100**	**.82**	**9.01**	**156.7**	**41.06**
Year to Date						
Pennsylvania	18.3	10,772	.58	11.12	151.2	32.57
Virginia	187.5	13,211	.85	8.98	156.7	41.40
West Virginia	299.3	12,796	.76	10.25	161.5	41.34
Total	**505.2**	**12,877**	**.79**	**9.81**	**159.4**	**41.05**
	Company and Plant: Delmarva Power and Light, Indian River					
1991						
Maryland	15.1	13,150	1.59	10.50	141.0	37.08
Pennsylvania	389.5	12,999	1.43	9.21	167.3	43.49
Virginia	61.0	13,029	1.23	8.82	204.5	53.28
West Virginia	1,030.5	12,981	.84	8.80	178.2	46.26
Total	**1,496.0**	**12,990**	**1.02**	**8.92**	**176.0**	**45.73**
1992						
Pennsylvania	137.4	13,104	1.40	9.31	177.9	46.62
West Virginia	840.2	13,034	1.12	8.88	166.1	43.29
Total	**977.6**	**13,044**	**1.16**	**8.94**	**167.7**	**43.76**
1993						
Maryland	45.1	12,966	1.29	9.49	160.4	41.59
Pennsylvania	216.3	12,971	1.32	9.58	164.2	42.60
Virginia	14.0	13,273	.77	6.90	188.2	49.96
West Virginia	1,290.6	12,980	.90	9.25	163.3	42.40
Total	**1,565.9**	**12,981**	**.97**	**9.28**	**163.6**	**42.48**
1994						
Kentucky	29.4	12,899	.59	6.90	179.3	46.25
Maryland	125.0	13,164	1.44	10.23	147.9	38.95
Pennsylvania	251.2	13,004	1.29	8.96	161.1	41.89
Virginia	56.5	13,125	.76	7.30	180.8	47.45
West Virginia	1,146.2	12,858	.88	9.45	164.4	42.27
Total	**1,608.3**	**12,915**	**.98**	**9.31**	**163.4**	**42.21**
1995						
Maryland	227.9	13,155	1.38	9.89	149.3	39.29
Pennsylvania	352.3	13,227	1.44	6.90	148.8	39.37
Virginia	23.2	13,382	1.46	6.53	143.0	38.28
West Virginia	638.7	13,050	.76	8.71	172.6	45.04
Colombia	7.1	13,141	.75	7.07	180.3	47.39
Total	**1,249.2**	**13,126**	**1.08**	**8.36**	**161.1**	**42.28**
1996						
Maryland	262.5	13,158	1.41	9.26	149.7	39.38
Pennsylvania	390.6	13,271	1.44	6.73	146.3	38.84
West Virginia	589.8	12,907	.76	8.99	172.1	44.42
Total	**1,242.9**	**13,074**	**1.11**	**8.33**	**159.1**	**41.60**
1997						
January - March						
Maryland	.2	13,208	1.38	9.26	146.7	38.75
Pennsylvania	67.9	13,268	1.38	7.28	141.7	37.60
West Virginia	189.2	13,096	.71	8.22	173.3	45.38
Total	**257.3**	**13,141**	**.89**	**7.97**	**164.8**	**43.32**
April - June						
Maryland	39.0	13,048	1.42	9.16	148.6	38.77
Pennsylvania	141.8	13,307	1.37	7.12	141.2	37.59
West Virginia	180.1	13,047	.68	8.63	172.2	44.94
Total	**360.9**	**13,149**	**1.04**	**8.09**	**157.4**	**41.38**
July - September						
Maryland	60.6	13,275	1.47	9.02	147.8	39.24
Pennsylvania	146.4	13,267	1.37	7.19	141.1	37.43
West Virginia	104.7	12,847	.71	9.74	171.2	43.99
Total	**311.7**	**13,127**	**1.17**	**8.40**	**152.3**	**39.99**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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: Delmarva Power and Light, Indian River					
1997						
October - December						
Maryland	61.0	13,112	1.47	9.32	147.3	38.62
Pennsylvania	126.3	13,251	1.42	7.32	141.5	37.50
West Virginia	59.9	12,976	.71	8.62	172.8	44.85
Total	**247.2**	**13,150**	**1.26**	**8.13**	**150.4**	**39.56**
Year to Date						
Maryland	160.8	13,158	1.46	9.17	147.8	38.89
Pennsylvania	482.5	13,275	1.39	7.22	141.3	37.52
West Virginia	533.9	13,017	.70	8.70	172.5	44.90
Total	**1,177.1**	**13,142**	**1.08**	**8.16**	**156.2**	**41.05**
	Company and Plant: Detroit Edison Co, River Rouge					
1991						
Kentucky	55.0	12,585	0.87	7.75	204.4	51.46
West Virginia	892.0	12,566	.69	10.70	160.2	40.26
Wyoming	84.0	8,790	.28	4.82	110.3	19.39
Total	**1,031.0**	**12,260**	**.66**	**10.06**	**159.7**	**39.16**
1992						
Kentucky	62.0	12,795	.80	8.07	194.5	49.77
West Virginia	697.0	12,570	.68	11.04	156.1	39.24
Wyoming	209.0	8,720	.24	4.80	105.3	18.37
Total	**968.0**	**11,753**	**.59**	**9.50**	**150.6**	**35.41**
1993						
Colorado	11.0	11,620	.53	8.80	147.6	34.30
Kentucky	359.0	12,638	.87	8.49	175.7	44.42
Virginia	10.0	13,583	.81	5.40	200.3	54.41
West Virginia	479.0	12,457	.72	11.64	155.2	38.67
Wyoming	399.0	8,752	.25	4.91	104.0	18.21
Total	**1,258.0**	**11,335**	**.61**	**8.53**	**149.6**	**33.91**
1994						
Colorado	21.0	11,838	.48	8.38	146.2	34.61
Kentucky	246.0	12,658	.81	8.22	178.4	45.17
West Virginia	630.0	12,446	.72	11.76	161.8	40.28
Wyoming	317.0	8,784	.27	5.09	106.1	18.64
Canada	57.0	11,005	.23	10.28	149.9	32.99
Total	**1,271.0**	**11,499**	**.60**	**9.29**	**154.0**	**35.41**
1995						
Colorado	44.0	11,818	.48	8.10	149.3	35.29
Kentucky	220.0	12,840	.72	7.59	170.2	43.70
West Virginia	412.0	12,292	.78	12.35	154.3	37.93
Wyoming	614.0	8,766	.26	5.11	105.6	18.51
Total	**1,290.0**	**10,691**	**.51**	**7.95**	**138.4**	**29.58**
1996						
Kentucky	351.0	12,742	.82	8.24	159.6	40.67
West Virginia	332.0	12,176	.85	13.10	141.2	34.40
Wyoming	638.0	8,783	.26	4.94	104.4	18.34
Total	**1,321.0**	**10,688**	**.56**	**7.87**	**132.4**	**28.31**
1997						
January - March						
Kentucky	64.0	12,667	.75	9.00	157.5	39.91
West Virginia	100.0	12,093	.87	13.70	142.7	34.51
Wyoming	156.0	8,801	.28	4.90	105.0	18.47
Total	**320.0**	**10,603**	**.56**	**8.47**	**131.0**	**27.77**
April - June						
Kentucky	75.0	12,608	.87	8.83	153.0	38.59
West Virginia	96.0	12,088	.86	13.56	145.3	35.12
Wyoming	126.0	8,774	.26	4.94	107.2	18.81
Total	**297.0**	**10,814**	**.61**	**8.71**	**134.4**	**29.08**
July - September						
Kentucky	130.0	12,914	.85	8.20	139.2	35.94
West Virginia	42.0	12,106	.79	12.15	141.5	34.26
Wyoming	180.0	8,810	.29	4.85	101.5	17.88
Total	**352.0**	**10,719**	**.56**	**6.95**	**123.6**	**26.51**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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: Detroit Edison Co, River Rouge						
1997						
October - December						
Kentucky	78.0	12,907	0.82	8.24	135.5	34.98
Pennsylvania	20.0	13,246	1.56	6.60	123.3	32.66
West Virginia	104.0	12,440	.84	10.91	141.4	35.19
Wyoming	213.0	8,770	.34	5.29	100.1	17.56
Total	**415.0**	**10,683**	**.61**	**7.32**	**121.6**	**25.98**
Year to Date						
Kentucky	347.0	12,800	.83	8.49	144.6	37.03
Pennsylvania	20.0	13,246	1.56	6.60	123.3	32.66
West Virginia	342.0	12,199	.85	12.62	142.9	34.86
Wyoming	675.0	8,789	.30	5.01	102.9	18.09
Total	**1,384.0**	**10,702**	**.59**	**7.79**	**127.1**	**27.19**
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						
Kentucky	612.5	12,469	.86	9.30	167.3	41.72
West Virginia	383.9	12,568	.69	9.19	168.6	42.38
Total	**996.4**	**12,507**	**.79**	**9.26**	**167.8**	**41.98**
1994						
Kentucky	677.2	12,429	.83	9.69	181.1	45.01
West Virginia	658.5	12,552	.71	9.50	173.0	43.43
Venezuela	84.4	12,778	.64	6.50	156.3	39.93
Total	**1,420.1**	**12,507**	**.77**	**9.41**	**175.8**	**43.97**
1995						
Kentucky	739.7	12,496	.75	9.01	170.4	42.59
West Virginia	546.2	12,502	.75	9.48	173.9	43.48
Total	**1,285.8**	**12,498**	**.75**	**9.21**	**171.9**	**42.97**
1996						
Kentucky	985.4	12,582	.68	8.63	166.8	41.96
West Virginia	969.8	12,571	.70	9.94	174.9	43.97
Total	**1,955.2**	**12,576**	**.69**	**9.28**	**170.8**	**42.96**
1997						
January - March						
Kentucky	233.8	12,370	.65	9.37	172.4	42.65
West Virginia	223.5	12,570	.72	10.29	180.5	45.38
Total	**457.3**	**12,468**	**.68**	**9.82**	**176.4**	**43.98**
April - June						
Colorado	14.4	11,131	.60	7.74	182.5	40.63
Kentucky	231.8	12,472	.67	9.08	164.8	41.11
West Virginia	327.7	12,522	.70	10.45	177.2	44.38
Total	**573.9**	**12,467**	**.69**	**9.83**	**172.3**	**42.97**
July - September						
Kentucky	203.0	12,481	.66	9.38	162.5	40.56
West Virginia	309.8	12,693	.68	9.93	175.9	44.65
Total	**512.8**	**12,609**	**.67**	**9.71**	**170.6**	**43.03**
October - December						
Kentucky	144.4	12,560	.65	8.81	167.1	41.98
West Virginia	321.1	12,568	.69	10.24	177.1	44.52
Total	**465.6**	**12,565**	**.68**	**9.80**	**174.0**	**43.73**
Year to Date						
Colorado	14.4	11,131	.60	7.74	182.5	40.63
Kentucky	813.0	12,461	.66	9.19	166.8	41.57
West Virginia	1,182.1	12,588	.70	10.23	177.5	44.68
Total	**2,009.6**	**12,526**	**.68**	**9.79**	**173.2**	**43.39**
Company and Plant: Gulf Power, Crist						
1991						
Illinois	1,265.5	11,977	2.68	8.67	205.1	49.12
Kentucky	607.5	12,048	2.81	8.06	129.2	31.13
Total	**1,873.0**	**12,000**	**2.72**	**8.47**	**180.4**	**43.29**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality[1]			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
	Company and Plant: Gulf Power, Crist					
1992						
Alabama	71.9	12,060	2.75	12.94	120.6	29.09
Illinois	1,779.8	11,926	2.70	8.37	180.8	43.12
Kentucky	225.8	12,062	2.73	8.38	121.4	29.28
Total	**2,077.5**	**11,945**	**2.71**	**8.53**	**172.2**	**41.13**
1993						
Alabama	72.3	12,337	2.09	11.73	191.1	47.15
Illinois	1,490.3	11,992	2.59	8.15	176.3	42.27
Kentucky	55.2	12,127	2.79	9.28	123.6	29.98
West Virginia	13.1	13,311	2.14	6.16	209.3	55.73
Colombia	280.2	11,983	.59	5.53	188.5	45.18
Venezuela	234.8	12,992	.59	6.11	172.2	44.75
Total	**2,145.9**	**12,124**	**2.10**	**7.72**	**176.7**	**42.85**
1994						
Alabama	1.5	12,241	2.87	10.00	204.1	49.97
Illinois	1,568.9	11,887	2.15	7.55	173.1	41.16
West Virginia	20.7	13,461	1.08	5.40	185.8	50.02
Colombia	29.8	12,239	.59	5.30	160.9	39.38
Venezuela	283.4	12,252	1.03	6.28	216.9	53.15
Total	**1,904.4**	**11,964**	**1.95**	**7.31**	**179.8**	**43.02**
1995						
Illinois	796.8	12,346	.95	6.34	228.4	56.40
Venezuela	776.7	12,363	.92	6.29	230.9	57.09
Total	**1,573.6**	**12,354**	**.93**	**6.31**	**229.6**	**56.74**
1996						
Illinois	1,265.4	12,124	1.10	6.30	223.6	54.21
Venezuela	205.9	12,224	.95	5.90	230.6	56.37
Total	**1,471.4**	**12,138**	**1.08**	**6.25**	**224.6**	**54.52**
1997						
January - March						
Illinois	310.0	12,022	1.07	6.84	230.5	55.43
Kentucky	4.8	11,826	1.27	12.20	224.0	52.98
West Virginia	11.9	12,211	.81	13.35	224.3	54.78
Total	**326.7**	**12,026**	**1.06**	**7.16**	**230.2**	**55.37**
April - June						
Alabama	55.4	12,728	.74	10.11	165.8	42.19
Illinois	253.7	12,047	1.04	6.74	209.7	50.51
Kentucky	61.0	11,973	1.23	11.46	191.1	45.77
West Virginia	90.7	12,303	.83	13.52	192.0	47.25
Total	**460.8**	**12,170**	**.99**	**9.11**	**198.2**	**48.24**
July - September						
Alabama	57.9	11,900	1.14	13.97	174.9	41.62
Illinois	277.7	11,919	.98	7.21	197.5	47.08
Kentucky	29.0	11,980	1.28	11.46	188.3	45.11
West Virginia	123.1	12,349	.95	12.12	199.9	49.37
Total	**487.7**	**12,029**	**1.01**	**9.51**	**194.9**	**46.89**
October - December						
Alabama	58.5	11,646	1.21	14.08	185.0	43.08
Illinois	223.2	12,096	1.16	6.57	210.7	50.97
Kentucky	65.8	12,722	.98	8.41	219.3	55.80
West Virginia	85.1	11,985	1.04	13.14	202.4	48.52
Total	**432.6**	**12,108**	**1.12**	**9.15**	**207.1**	**50.16**
Year to Date						
Alabama	171.8	12,080	1.04	12.76	175.1	42.30
Illinois	1,064.6	12,016	1.06	6.86	212.8	51.15
Kentucky	160.6	12,277	1.14	10.23	203.5	49.98
West Virginia	310.8	12,231	.93	12.85	199.2	48.73
Total	**1,707.8**	**12,086**	**1.04**	**8.86**	**205.6**	**49.71**
	Company and Plant: Gulf Power, Scholtz					
1991						
Kentucky	67.9	12,685	2.86	7.08	151.3	38.39
Total	**67.9**	**12,685**	**2.86**	**7.08**	**151.3**	**38.39**
1992						
Kentucky	31.7	12,192	3.06	8.84	148.7	36.27
Total	**31.7**	**12,192**	**3.06**	**8.84**	**148.7**	**36.27**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality[1]			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Gulf Power, Scholtz						
1993						
Illinois	8.2	12,061	2.38	7.60	154.1	37.17
Kentucky	47.9	12,057	3.10	8.74	159.5	38.45
Colombia	7.5	12,170	.62	7.50	164.4	40.01
Venezuela	16.0	12,958	.58	6.10	170.6	44.20
Total	**79.6**	**12,249**	**2.29**	**7.98**	**161.7**	**39.62**
1994						
Kentucky	67.1	11,861	3.09	9.35	168.7	40.03
Total	**67.1**	**11,861**	**3.09**	**9.35**	**168.7**	**40.03**
1995						
Kentucky	60.5	12,585	2.74	8.07	152.1	38.28
Total	**60.5**	**12,585**	**2.74**	**8.07**	**152.1**	**38.28**
1996						
Kentucky	78.7	12,008	3.13	9.52	140.1	33.65
Total	**78.7**	**12,008**	**3.13**	**9.52**	**140.1**	**33.65**
1997						
January - March						
Kentucky	15.0	12,241	1.91	9.65	168.8	41.32
Total	**15.0**	**12,241**	**1.91**	**9.65**	**168.8**	**41.32**
April - June						
Kentucky	31.3	12,325	1.96	9.54	164.7	40.59
Total	**31.3**	**12,325**	**1.96**	**9.54**	**164.7**	**40.59**
July - September						
Kentucky	14.8	12,496	.92	8.91	178.8	44.69
Total	**14.8**	**12,496**	**.92**	**8.91**	**178.8**	**44.69**
October - December						
Kentucky	14.7	12,509	2.97	8.20	161.6	40.44
Total	**14.7**	**12,509**	**2.97**	**8.20**	**161.6**	**40.44**
Year to Date						
Kentucky	75.8	12,377	1.94	9.18	167.7	41.50
Total	**75.8**	**12,377**	**1.94**	**9.18**	**167.7**	**41.50**
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						
Illinois	704.8	11,905	2.18	7.96	179.4	42.71
Kentucky	15.9	12,269	2.96	9.45	121.7	29.85
Colombia	198.2	11,823	.61	5.96	184.6	43.65
Total	**918.9**	**11,893**	**1.85**	**7.55**	**179.5**	**42.69**
1994						
Illinois	391.8	12,086	2.11	7.93	160.3	38.76
Kentucky	17.7	11,881	3.22	10.78	140.2	33.31
Colombia	286.6	12,299	.61	4.17	172.3	42.39
South Africa	127.3	11,318	.65	12.60	181.1	41.00
Venezuela	53.8	12,272	.96	6.52	229.1	56.24
Total	**877.3**	**12,051**	**1.36**	**7.35**	**171.1**	**41.23**
1995						
Illinois	981.7	11,728	2.26	8.25	143.5	33.67
Venezuela	114.6	12,202	1.00	6.52	236.1	57.63
Total	**1,096.4**	**11,777**	**2.13**	**8.07**	**153.6**	**36.17**
1996						
Illinois	710.6	11,792	1.99	7.97	158.1	37.28
Kentucky	285.8	11,895	2.87	7.68	195.0	46.40
Venezuela	92.2	12,171	.99	6.03	234.7	57.13
Total	**1,088.7**	**11,851**	**2.13**	**7.73**	**174.5**	**41.35**
1997						
January - March						
Alabama	28.6	11,900	3.33	12.40	204.2	48.60
Illinois	132.9	12,054	1.40	6.91	232.2	55.97
Kentucky	41.4	11,965	2.77	6.08	266.2	63.71
Total	**202.9**	**12,014**	**1.96**	**7.52**	**235.2**	**56.51**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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					
1997						
April - June						
Alabama	109.5	11,805	2.90	14.17	174.2	41.12
Illinois	51.7	12,277	2.41	8.61	173.7	42.64
Kentucky	71.1	11,970	2.98	10.46	170.8	40.88
Total	**232.3**	**11,961**	**2.82**	**11.80**	**173.0**	**41.38**
July - September						
Alabama	22.0	11,286	2.48	14.70	175.5	39.61
Illinois	75.1	11,819	2.86	7.64	177.6	41.98
Kentucky	178.5	12,078	2.90	10.43	173.4	41.89
Total	**275.6**	**11,944**	**2.86**	**10.01**	**174.7**	**41.73**
October - December						
Alabama	30.5	11,512	2.90	13.74	178.8	41.17
Illinois	29.7	11,916	2.16	7.22	194.3	46.32
Kentucky	169.6	11,995	2.80	9.11	179.9	43.16
Total	**229.8**	**11,921**	**2.73**	**9.48**	**181.6**	**43.30**
Year to Date						
Alabama	190.6	11,712	2.92	13.90	179.6	42.08
Illinois	289.4	12,019	2.04	7.44	203.7	48.97
Kentucky	460.6	12,021	2.87	9.56	183.7	44.16
Total	**940.6**	**11,958**	**2.62**	**9.78**	**189.1**	**45.22**
	Company and Plant: Holyoke Water Power (NU), Mount Tom					
1991						
Pennsylvania	400.3	13,137	1.47	6.63	175.5	46.11
Total	**400.3**	**13,137**	**1.47**	**6.63**	**175.5**	**46.11**
1992						
Pennsylvania	354.8	13,234	1.34	6.26	168.2	44.51
West Virginia	8.1	12,800	.80	8.50	198.2	50.74
Total	**362.9**	**13,224**	**1.33**	**6.31**	**168.8**	**44.65**
1993						
Kentucky	7.3	13,132	.75	7.50	195.9	51.45
Pennsylvania	299.9	13,201	1.52	6.34	164.7	43.49
West Virginia	7.0	13,087	.91	7.60	171.7	44.94
Total	**314.2**	**13,197**	**1.49**	**6.39**	**165.6**	**43.71**
1994						
Kentucky	47.8	12,884	.55	7.74	206.0	53.07
Pennsylvania	289.2	13,171	1.48	6.60	156.8	41.31
Indonesia	7.9	12,651	.43	3.30	195.4	49.44
Total	**344.9**	**13,119**	**1.33**	**6.68**	**164.4**	**43.13**
1995						
Kentucky	157.3	13,053	.52	7.40	193.3	50.47
Pennsylvania	212.5	13,227	1.37	7.20	156.9	41.50
Total	**369.8**	**13,153**	**1.01**	**7.28**	**172.3**	**45.31**
1996						
Kentucky	135.8	13,081	.51	7.78	198.3	51.88
Pennsylvania	225.0	13,301	1.38	6.91	159.2	42.35
Virginia	1.9	14,243	.80	5.20	212.3	60.48
West Virginia	8.4	13,227	.64	8.20	189.1	50.02
Total	**371.1**	**13,224**	**1.04**	**7.25**	**174.3**	**46.10**
1997						
January - March						
Kentucky	32.7	12,931	.59	7.77	205.5	53.15
Pennsylvania	7.8	13,381	1.24	6.90	164.2	43.94
West Virginia	42.1	13,168	.61	7.66	194.8	51.30
Total	**82.6**	**13,094**	**.66**	**7.63**	**196.0**	**51.34**
April - June						
Kentucky	8.1	13,000	.62	8.20	204.1	53.07
Pennsylvania	117.0	13,304	1.32	7.17	166.1	44.19
Total	**125.1**	**13,284**	**1.28**	**7.24**	**168.5**	**44.77**
July - September						
Kentucky	30.8	13,057	.55	7.63	203.3	53.09
Pennsylvania	62.9	13,210	1.30	7.01	167.4	44.22
Total	**93.7**	**13,160**	**1.05**	**7.21**	**179.1**	**47.14**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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: Holyoke Water Power (NU), Mount Tom					
1997						
October - December						
Kentucky	55.2	13,022	0.52	7.42	203.0	52.87
Pennsylvania	92.4	13,192	1.52	7.24	164.8	43.49
Total	**147.6**	**13,129**	**1.15**	**7.31**	**179.0**	**46.99**
Year to Date						
Kentucky	126.8	13,006	.55	7.61	203.8	53.01
Pennsylvania	280.1	13,248	1.38	7.15	165.9	43.96
West Virginia	42.1	13,168	.61	7.66	194.8	51.30
Total	**449.1**	**13,172**	**1.07**	**7.33**	**179.2**	**47.20**
	Company and Plant: Jacksonville Electric Authority, St Johns River					
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						
Kentucky	1,300.4	12,802	1.30	8.36	172.0	44.03
West Virginia	243.0	12,049	.75	12.79	187.6	45.21
Colombia	2,291.2	11,849	.68	7.21	136.9	32.44
Total	**3,834.6**	**12,185**	**.89**	**7.95**	**152.6**	**37.18**
1994						
Kentucky	1,106.7	12,775	1.27	8.92	173.2	44.25
West Virginia	595.3	12,193	.82	11.98	185.1	45.14
Colombia	2,032.1	11,883	.69	7.40	135.6	32.22
Total	**3,734.1**	**12,197**	**.88**	**8.58**	**155.2**	**37.85**
1995						
Kentucky	1,695.5	12,605	1.25	9.30	168.0	42.35
West Virginia	645.7	12,143	.88	12.85	188.2	45.70
Colombia	1,340.6	11,826	.67	7.52	151.5	35.82
Total	**3,681.8**	**12,241**	**.97**	**9.28**	**165.7**	**40.56**
1996						
Kentucky	2,239.5	12,742	1.31	9.08	164.4	41.89
West Virginia	133.3	12,384	1.68	11.85	177.2	43.88
Colombia	1,417.2	11,810	.66	7.71	152.9	36.11
Total	**3,790.0**	**12,381**	**1.08**	**8.66**	**160.7**	**39.80**
1997						
January - March						
Kentucky	454.9	12,557	1.65	9.61	175.4	44.05
West Virginia	79.2	12,050	.87	13.38	195.7	47.16
Colombia	138.9	11,813	.70	7.30	152.0	35.91
Total	**673.0**	**12,343**	**1.36**	**9.58**	**173.1**	**42.73**
April - June						
Kentucky	354.4	12,687	1.42	9.88	179.9	45.66
West Virginia	88.9	12,004	.85	13.42	197.6	47.45
Colombia	425.7	11,809	.72	7.49	151.4	35.76
Total	**869.1**	**12,187**	**1.02**	**9.07**	**168.2**	**40.99**
July - September						
Kentucky	386.2	12,641	1.41	9.97	176.5	44.61
West Virginia	9.8	11,803	.73	12.50	195.0	46.03
Colombia	432.5	11,913	.98	7.27	148.4	35.35
Total	**828.5**	**12,251**	**1.18**	**8.59**	**162.4**	**39.79**
October - December						
Kentucky	366.2	12,589	1.44	10.60	166.5	41.92
Colombia	388.3	11,841	.65	7.57	150.1	35.55
Total	**754.5**	**12,204**	**1.03**	**9.04**	**158.3**	**38.64**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality[1]			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: Jacksonville Electric Authority, St Johns River						
1997						
Year to Date						
Kentucky	1,561.8	12,614	1.49	9.99	174.6	44.05
West Virginia	177.9	12,013	.85	13.35	196.6	47.24
Colombia	1,385.3	11,851	.78	7.42	150.1	35.59
Total	**3,125.0**	**12,242**	**1.14**	**9.05**	**165.3**	**40.48**
Company and Plant: Mississippi Power (Southern Co), Daniel						
1991						
Kentucky	1,306.9	12,952	0.72	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						
Colorado	158.6	11,535	.45	9.58	158.9	36.66
Kentucky	774.6	12,881	.70	8.12	173.8	44.78
Montana	177.7	9,425	.39	4.61	159.1	29.99
Indonesia	67.5	9,745	.08	1.23	168.9	32.92
Total	**1,178.5**	**11,999**	**.58**	**7.39**	**169.9**	**40.78**
1994						
Colorado	715.2	11,072	.43	10.37	159.5	35.31
Kentucky	279.3	12,739	.68	9.06	181.7	46.28
Montana	1,288.4	9,402	.40	4.78	138.0	25.96
Total	**2,282.8**	**10,334**	**.44**	**7.06**	**151.8**	**31.38**
1995						
Colorado	951.3	11,076	.42	9.89	161.4	35.75
Montana	1,269.5	9,399	.38	4.43	140.0	26.31
Total	**2,220.8**	**10,118**	**.39**	**6.77**	**150.0**	**30.36**
1996						
Colorado	507.9	11,397	.46	8.87	159.3	36.32
Montana	2,163.3	9,394	.40	4.48	141.0	26.49
Total	**2,671.2**	**9,774**	**.41**	**5.31**	**145.1**	**28.36**
1997						
January - March						
Montana	749.3	9,394	.39	4.61	141.3	26.54
Total	**749.3**	**9,394**	**.39**	**4.61**	**141.3**	**26.54**
April - June						
Montana	778.9	9,059	.40	4.67	145.3	26.33
Total	**778.9**	**9,059**	**.40**	**4.67**	**145.3**	**26.33**
July - September						
Montana	869.4	9,398	.38	4.50	148.1	27.84
Total	**869.4**	**9,398**	**.38**	**4.50**	**148.1**	**27.84**
October - December						
Montana	823.7	9,429	.39	4.48	146.7	27.67
Total	**823.7**	**9,429**	**.39**	**4.48**	**146.7**	**27.67**
Year to Date						
Montana	3,221.3	9,323	.39	4.56	145.5	27.13
Total	**3,221.3**	**9,323**	**.39**	**4.56**	**145.5**	**27.13**
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**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality[1]			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
Company and Plant: New England Power (NEES), Brayton Point						
1993						
Kentucky	68.7	12,641	0.54	7.18	167.7	42.39
Maryland	1.0	13,161	1.48	10.11	153.6	40.44
West Virginia	1,659.3	12,985	1.05	8.54	167.5	43.51
Wyoming	7.0	8,889	.30	5.37	174.9	31.09
Colombia	187.2	12,144	.64	5.42	178.5	43.35
Venezuela	239.9	13,132	.71	7.83	162.5	42.67
Total	**2,163.1**	**12,905**	**.96**	**8.14**	**167.9**	**43.33**
1994						
Kentucky	138.0	12,543	.73	8.18	174.9	43.88
Pennsylvania	119.6	13,049	1.43	6.44	166.4	43.43
West Virginia	2,159.0	12,823	.98	8.61	170.6	43.75
Colombia	51.3	12,131	.65	5.60	172.2	41.78
Venezuela	351.2	12,955	.71	7.03	154.2	39.95
Total	**2,819.1**	**12,822**	**.95**	**8.24**	**168.6**	**43.24**
1995						
Kentucky	144.6	12,644	.73	7.74	171.9	43.47
West Virginia	1,491.6	12,687	.71	9.56	171.3	43.46
Colombia	307.8	12,218	.60	5.22	164.6	40.23
Venezuela	510.6	12,788	.69	7.03	160.0	40.92
Total	**2,454.6**	**12,647**	**.69**	**8.38**	**168.1**	**42.53**
1996						
Kentucky	262.9	12,628	.70	8.26	174.6	44.09
West Virginia	1,884.5	12,538	.70	10.16	172.9	43.37
Colombia	427.5	12,014	.59	5.52	168.0	40.35
Venezuela	572.4	12,937	.67	6.29	162.4	42.01
Total	**3,147.3**	**12,547**	**.68**	**8.67**	**170.5**	**42.77**
1997						
January - March						
Kentucky	161.4	12,725	.68	7.09	176.4	44.89
West Virginia	401.3	12,530	.71	10.15	172.0	43.11
Colombia	112.1	12,030	.63	6.04	179.7	43.25
Venezuela	27.8	12,705	.75	8.48	162.2	41.21
Total	**702.6**	**12,502**	**.69**	**8.73**	**173.8**	**43.46**
April - June						
Kentucky	163.0	12,666	.74	8.06	180.0	45.61
West Virginia	423.3	12,583	.72	10.69	170.0	42.79
Colombia	159.3	12,190	.64	6.16	154.6	37.68
Venezuela	83.9	13,136	.72	6.23	163.6	42.98
Total	**829.5**	**12,580**	**.71**	**8.85**	**168.5**	**42.38**
July - September						
Kentucky	48.8	12,835	.71	8.81	155.0	39.80
West Virginia	322.8	12,376	.68	11.44	170.1	42.11
Colombia	275.3	12,093	.63	5.54	158.6	38.35
Venezuela	110.7	13,203	.65	5.58	164.6	43.47
Total	**757.6**	**12,423**	**.66**	**8.27**	**164.2**	**40.79**
October - December						
Kentucky	80.7	12,772	.67	6.62	158.9	40.58
West Virginia	437.8	12,579	.70	10.38	163.7	41.19
Colombia	121.8	12,169	.66	5.62	183.0	44.54
Venezuela	70.1	13,143	.67	6.86	169.3	44.49
Total	**710.4**	**12,586**	**.69**	**8.79**	**166.9**	**42.02**
Year to Date						
Kentucky	453.9	12,724	.70	7.54	172.3	43.83
West Virginia	1,585.2	12,526	.70	10.62	168.8	42.29
Colombia	668.5	12,119	.64	5.79	165.6	40.14
Venezuela	292.5	13,122	.68	6.35	165.2	43.36
Total	**3,000.1**	**12,524**	**.69**	**8.66**	**168.3**	**42.15**
Company and Plant: New England Power (NEES), Salem Harbor						
1991						
Virginia	120.6	13,938	0.77	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**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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					
1992						
Pennsylvania	40.2	13,193	1.26	6.80	162.3	42.82
West Virginia	763.1	13,130	1.46	9.47	167.0	43.86
Canada	32.8	13,569	1.40	3.82	174.9	47.46
Venezuela	34.8	12,893	.58	7.02	145.3	37.47
Total	**870.9**	**13,140**	**1.41**	**9.04**	**166.3**	**43.70**
1993						
Maryland	10.1	13,219	1.32	9.76	166.4	43.99
West Virginia	532.9	13,013	1.29	9.62	167.2	43.51
Venezuela	236.2	12,921	.57	6.65	162.5	41.99
Total	**779.2**	**12,987**	**1.07**	**8.72**	**165.8**	**43.05**
1994						
West Virginia	80.0	12,958	.77	8.71	177.5	45.99
Colombia	84.2	12,017	.57	6.07	159.9	38.44
Venezuela	565.5	12,678	.64	6.49	159.6	40.47
Total	**729.7**	**12,632**	**.65**	**6.69**	**161.6**	**40.84**
1995						
West Virginia	117.6	12,643	.68	8.94	183.5	46.41
Colombia	250.1	12,166	.60	5.26	147.9	35.99
Venezuela	393.1	12,846	.65	6.34	162.4	41.72
Total	**760.8**	**12,591**	**.64**	**6.39**	**161.1**	**40.56**
1996						
Kentucky	2.6	12,282	.63	8.35	155.3	38.16
West Virginia	157.2	12,727	.70	9.20	176.6	44.95
Colombia	202.9	12,069	.57	5.77	148.6	35.86
Venezuela	563.1	12,849	.70	6.17	155.5	39.96
Total	**925.8**	**12,656**	**.67**	**6.60**	**157.6**	**39.90**
1997						
January - March						
Kentucky	39.5	12,540	.73	9.29	179.7	45.07
West Virginia	80.9	12,490	.70	10.92	176.6	44.12
Colombia	85.6	12,121	.72	6.69	176.8	42.85
Total	**206.0**	**12,346**	**.71**	**8.85**	**177.3**	**43.78**
April - June						
West Virginia	40.3	12,612	.70	9.98	174.1	43.93
Colombia	153.9	12,078	.62	6.21	151.7	36.63
Total	**194.2**	**12,189**	**.63**	**6.99**	**156.5**	**38.15**
July - September						
Kentucky	39.0	12,617	.60	6.83	180.7	45.61
Colombia	132.9	12,120	.60	5.85	184.8	44.80
Total	**171.9**	**12,233**	**.60**	**6.07**	**183.9**	**44.98**
October - December						
Kentucky	57.7	12,661	.65	7.40	171.7	43.47
West Virginia	59.9	12,439	.67	11.03	145.5	36.20
Colombia	36.7	12,087	.62	5.91	145.5	35.18
Venezuela	90.4	12,934	.69	5.82	156.8	40.58
Total	**244.7**	**12,621**	**.67**	**7.48**	**156.0**	**39.38**
Year to Date						
Kentucky	136.2	12,613	.66	7.78	176.6	44.55
West Virginia	181.1	12,500	.69	10.75	165.8	41.46
Colombia	409.1	12,101	.63	6.17	167.2	40.46
Venezuela	90.4	12,934	.69	5.82	156.8	40.58
Total	**816.8**	**12,367**	**.66**	**7.41**	**167.3**	**41.37**
	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**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality[1]			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
	Company and Plant: Ohio Edison, Burger Plant					
1993						
Kentucky	6.1	12,223	0.88	10.70	110.4	26.99
Ohio	1,151.5	12,135	3.57	11.37	102.2	24.81
Pennsylvania	99.9	11,842	3.41	11.82	92.0	21.79
Total	**1,257.5**	**12,113**	**3.55**	**11.41**	**101.5**	**24.58**
1994						
Ohio	937.8	12,266	3.58	10.63	99.0	24.28
Pennsylvania	63.6	11,942	2.80	11.52	105.5	25.20
West Virginia	1.5	11,112	4.48	17.60	112.7	25.05
Total	**1,002.9**	**12,244**	**3.53**	**10.69**	**99.4**	**24.34**
1995						
Ohio	225.7	12,444	3.78	10.17	95.2	23.68
Pennsylvania	179.8	12,635	2.41	10.26	93.0	23.49
West Virginia	158.1	12,320	2.49	11.49	90.5	22.29
Total	**563.6**	**12,470**	**2.98**	**10.57**	**93.1**	**23.23**
1996						
Ohio	2.3	11,043	2.57	10.80	72.6	16.03
Pennsylvania	33.4	11,981	3.38	11.11	77.5	18.56
West Virginia	942.8	12,323	3.69	9.65	81.9	20.18
Total	**978.5**	**12,308**	**3.68**	**9.70**	**81.7**	**20.11**
1997						
January - March						
Ohio	16.6	11,319	2.78	12.45	90.0	20.37
Pennsylvania	25.1	8,938	1.71	29.07	77.1	13.79
West Virginia	81.6	12,378	3.78	9.89	80.2	19.86
Total	**123.3**	**11,535**	**3.23**	**14.14**	**81.0**	**18.70**
April - June						
Ohio	42.5	12,002	2.80	11.35	86.2	20.68
Pennsylvania	97.4	9,235	2.10	27.29	79.6	14.70
West Virginia	110.5	11,928	3.01	13.91	82.5	19.67
Total	**250.4**	**10,893**	**2.62**	**18.68**	**82.2**	**17.91**
July - September						
Kentucky	9.3	11,457	.69	12.60	108.9	24.95
Ohio	56.4	11,605	3.26	12.52	95.2	22.10
Pennsylvania	38.9	13,000	2.31	8.53	95.3	24.77
West Virginia	162.9	11,054	1.33	19.06	91.9	20.31
Total	**267.5**	**11,467**	**1.86**	**15.93**	**93.7**	**21.50**
October - December						
Kentucky	21.0	11,320	.70	12.84	108.2	24.49
Ohio	86.0	11,753	3.10	13.04	94.7	22.26
Pennsylvania	38.0	13,007	2.32	8.50	107.7	28.02
West Virginia	65.0	11,559	.77	18.03	101.6	23.50
Total	**210.0**	**11,877**	**2.00**	**13.74**	**100.7**	**23.91**
Year to Date						
Kentucky	30.3	11,362	.70	12.77	108.4	24.63
Ohio	201.5	11,728	3.06	12.49	92.6	21.73
Pennsylvania	199.4	10,651	2.14	20.27	89.6	19.09
West Virginia	420.0	11,619	2.16	15.77	88.4	20.55
Total	**851.2**	**11,409**	**2.32**	**15.94**	**90.4**	**20.63**
	Company and Plant: Public Serv Co of Indiana, Gallagher					
1991						
Illinois	29.5	12,829	2.74	8.57	105.1	26.96
Indiana	855.6	11,030	2.24	8.31	135.0	29.78
Kentucky	258.4	11,547	2.43	8.63	107.3	24.77
Total	**1,143.5**	**11,193**	**2.30**	**8.39**	**127.6**	**28.57**
1992						
Illinois	51.3	10,841	3.41	7.97	185.5	40.21
Indiana	826.6	10,901	2.26	8.78	142.3	31.01
Kentucky	120.1	11,907	1.49	9.48	114.9	27.37
West Virginia	146.5	12,744	.77	8.82	115.4	29.41
Total	**1,144.5**	**11,240**	**2.04**	**8.82**	**137.2**	**30.84**
1993						
Illinois	11.8	11,792	1.52	6.70	102.7	24.23
Indiana	466.6	10,994	2.12	8.81	137.1	30.14
Kentucky	58.3	11,923	1.70	11.59	122.2	29.13
Pennsylvania	173.7	13,213	2.53	7.34	132.3	34.97

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality[1]			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
	Company and Plant: Public Serv Co of Indiana, Gallagher					
1993						
Indonesia	11.1	9,242	0.13	1.35	104.8	19.38
Total	**721.5**	**11,589**	**2.14**	**8.53**	**133.6**	**30.96**
1994						
Illinois	362.8	11,905	1.53	7.19	130.0	30.96
Indiana	326.8	11,062	1.82	8.77	121.5	26.88
Kentucky	304.0	11,849	1.73	11.81	132.6	31.42
Pennsylvania	492.1	13,237	2.29	7.59	112.9	29.89
West Virginia	31.9	12,451	1.30	10.41	121.3	30.20
Total	**1,517.6**	**12,155**	**1.88**	**8.65**	**122.6**	**29.81**
1995						
Illinois	445.0	11,913	1.43	7.05	123.4	29.41
Indiana	133.3	11,064	1.31	9.65	116.2	25.72
Pennsylvania	547.4	13,131	2.35	7.97	102.4	26.90
Total	**1,125.7**	**12,405**	**1.86**	**7.80**	**111.9**	**27.75**
1996						
Illinois	376.7	11,970	1.48	6.65	115.5	27.66
Indiana	18.1	11,256	1.58	7.15	97.7	21.99
Kentucky	73.6	12,343	2.15	9.89	108.9	26.89
Pennsylvania	531.6	13,043	2.35	8.06	108.7	28.35
Total	**1,000.0**	**12,555**	**1.99**	**7.64**	**111.0**	**27.87**
1997						
January - March						
Illinois	53.1	11,858	1.21	6.89	115.7	27.43
Indiana	1.6	11,399	1.44	6.30	106.2	24.21
Kentucky	10.0	12,167	2.28	10.18	115.6	28.14
Pennsylvania	118.3	12,982	2.23	7.83	102.4	26.60
West Virginia	35.0	13,098	2.16	7.36	104.7	27.44
Total	**218.0**	**12,678**	**1.96**	**7.62**	**106.4**	**26.99**
April - June						
Indiana	1.8	10,464	2.44	9.80	115.5	24.17
Pennsylvania	142.2	13,115	2.35	7.96	103.3	27.10
West Virginia	19.3	13,181	2.15	7.50	105.9	27.92
Total	**163.3**	**13,093**	**2.33**	**7.93**	**103.7**	**27.17**
July - September						
Illinois	47.4	11,937	.96	6.40	132.7	31.68
Kentucky	7.2	11,502	2.25	11.00	117.1	26.94
Pennsylvania	162.0	13,117	2.37	8.13	102.7	26.93
West Virginia	40.6	13,266	2.36	6.98	106.6	28.28
Total	**257.2**	**12,878**	**2.11**	**7.71**	**108.8**	**28.02**
October - December						
Illinois	7.5	11,805	1.09	7.40	127.9	30.20
Indiana	1.8	11,035	2.79	9.90	101.3	22.36
Pennsylvania	224.5	13,001	2.24	8.06	106.6	27.73
West Virginia	112.8	13,215	2.03	7.06	106.7	28.20
Total	**346.6**	**13,035**	**2.15**	**7.73**	**107.0**	**27.91**
Year to Date						
Illinois	108.0	11,889	1.09	6.71	124.0	29.49
Indiana	5.2	10,949	2.25	8.76	107.6	23.56
Kentucky	17.2	11,889	2.27	10.52	116.2	27.64
Pennsylvania	647.0	13,052	2.30	8.01	104.1	27.18
West Virginia	207.7	13,202	2.13	7.14	106.3	28.06
Total	**985.1**	**12,924**	**2.13**	**7.73**	**106.8**	**27.61**
	Company and Plant: Public Serv Co of New Hampshire, Merrimack					
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						
Pennsylvania	661.6	13,240	1.63	6.42	165.9	43.92
West Virginia	388.6	13,225	2.27	7.59	155.3	41.07
Indonesia	21.2	12,620	.49	3.80	186.5	47.07

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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						
1993						
Venezuela	24.9	12,920	0.58	6.00	163.2	42.17
Total	**1,096.3**	**13,216**	**1.81**	**6.77**	**162.4**	**42.93**
1994						
Pennsylvania	706.9	13,176	1.57	6.61	156.5	41.25
West Virginia	272.1	13,253	2.34	7.50	147.8	39.17
Total	**979.0**	**13,197**	**1.78**	**6.86**	**154.1**	**40.67**
1995						
Pennsylvania	759.3	13,203	1.49	6.90	161.1	42.53
Virginia	19.1	13,910	.68	7.00	203.5	56.61
West Virginia	223.3	13,366	2.29	6.28	141.7	37.89
Colombia	11.5	11,578	.53	3.80	192.9	44.67
Total	**1,013.2**	**13,234**	**1.64**	**6.73**	**157.9**	**41.80**
1996						
Pennsylvania	715.4	13,233	1.53	6.72	162.3	42.95
Virginia	16.0	14,085	.74	5.83	199.8	56.30
West Virginia	278.0	13,320	2.34	6.64	147.0	39.15
Venezuela	39.9	12,370	.39	3.70	213.2	52.75
Total	**1,049.3**	**13,236**	**1.69**	**6.57**	**160.6**	**42.52**
1997						
January - March						
Pennsylvania	245.4	13,250	1.46	7.11	165.3	43.80
West Virginia	68.7	13,410	2.22	6.76	147.7	39.61
Total	**314.0**	**13,285**	**1.62**	**7.03**	**161.4**	**42.88**
April - June						
Pennsylvania	180.2	13,254	1.40	6.92	165.5	43.86
West Virginia	76.5	13,364	2.39	6.93	147.6	39.46
Total	**256.8**	**13,286**	**1.69**	**6.92**	**160.1**	**42.55**
July - September						
Pennsylvania	182.2	13,195	1.36	6.66	169.7	44.79
Virginia	9.9	13,759	1.46	5.37	212.5	58.47
West Virginia	84.7	13,316	2.24	7.18	155.8	41.48
Total	**276.8**	**13,252**	**1.63**	**6.77**	**167.0**	**44.26**
October - December						
Pennsylvania	248.0	13,165	1.54	7.06	166.2	43.76
West Virginia	47.3	13,410	2.03	6.60	158.6	42.53
Indonesia	40.8	12,300	.49	4.50	190.7	46.92
Total	**336.1**	**13,094**	**1.48**	**6.69**	**167.9**	**43.97**
Year to Date						
Pennsylvania	855.8	13,214	1.45	6.96	166.5	44.01
Virginia	9.9	13,759	1.46	5.37	212.5	58.47
West Virginia	277.2	13,368	2.24	6.91	152.0	40.64
Indonesia	40.8	12,300	.49	4.50	190.7	46.92
Total	**1,183.7**	**13,223**	**1.60**	**6.85**	**164.3**	**43.44**
Company and Plant: Public Serv Co of New Hampshire, Schiller						
1991						
West Virginia	117.5	13,384	0.69	6.24	180.6	48.34
Venezuela	207.1	12,989	.52	5.65	173.6	45.10
Total	**324.6**	**13,132**	**.58**	**5.86**	**176.2**	**46.28**
1992						
Pennsylvania	8.3	13,080	1.46	6.25	173.0	45.26
West Virginia	131.9	13,252	.77	6.62	175.2	46.44
Colombia	48.4	12,428	.61	6.31	157.2	39.08
Venezuela	34.3	12,881	.58	6.76	168.0	43.29
Total	**222.9**	**13,010**	**.73**	**6.56**	**170.3**	**44.31**
1993						
West Virginia	57.6	13,238	.75	7.40	171.7	45.45
Colombia	52.1	12,861	.64	7.49	150.0	38.59
Indonesia	16.0	12,620	.49	3.80	161.3	40.71
Venezuela	84.3	12,972	.58	6.08	138.6	35.95
Total	**210.1**	**12,991**	**.63**	**6.62**	**152.3**	**39.58**
1994						
Colombia	163.3	12,505	.62	5.55	135.5	33.89
Indonesia	113.0	12,360	.53	3.58	158.7	39.23
Total	**276.3**	**12,446**	**.58**	**4.74**	**144.9**	**36.07**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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						
1995						
West Virginia	74.1	12,997	0.80	8.76	164.3	42.72
Colombia	122.9	12,733	.62	6.70	160.0	40.73
Indonesia	79.7	12,300	.52	4.56	167.8	41.28
Venezuela	82.4	13,044	.71	7.24	156.5	40.84
Total	**359.1**	**12,762**	**.66**	**6.77**	**161.8**	**41.29**
1996						
Kentucky	14.5	12,830	.90	8.40	193.7	49.70
Pennsylvania	44.0	12,708	1.53	13.21	155.8	39.59
West Virginia	101.3	12,988	1.38	9.41	157.6	40.95
Colombia	32.3	12,169	.66	5.68	161.9	39.41
Indonesia	25.9	12,412	.72	8.20	161.9	40.19
Venezuela	56.1	13,061	.67	6.04	159.8	41.75
Total	**274.2**	**12,799**	**1.09**	**8.72**	**160.6**	**41.11**
1997						
January - March						
Pennsylvania	29.5	13,002	1.75	8.00	159.2	41.40
West Virginia	52.9	13,058	1.45	8.55	158.0	41.27
Venezuela	28.5	11,669	.88	7.90	160.0	37.34
Total	**111.0**	**12,686**	**1.38**	**8.24**	**158.8**	**40.29**
April - June						
West Virginia	14.8	13,068	1.37	8.50	157.7	41.22
Venezuela	98.9	12,707	.66	5.50	161.9	41.15
Total	**113.6**	**12,754**	**.75**	**5.89**	**161.3**	**41.16**
July - September						
West Virginia	28.3	12,990	1.34	8.22	158.6	41.20
Venezuela	101.5	11,893	.63	6.24	159.7	38.00
Total	**129.8**	**12,132**	**.79**	**6.67**	**159.5**	**38.69**
October - December						
West Virginia	44.1	12,817	1.42	7.65	164.3	42.11
Colombia	35.4	13,231	.63	6.70	160.1	42.37
Total	**79.5**	**13,001**	**1.07**	**7.23**	**162.4**	**42.22**
Year to Date						
Pennsylvania	29.5	13,002	1.75	8.00	159.2	41.40
West Virginia	140.0	12,969	1.41	8.20	160.0	41.51
Colombia	35.4	13,231	.63	6.70	160.1	42.37
Venezuela	229.0	12,217	.67	6.13	160.7	39.27
Total	**433.9**	**12,596**	**.98**	**6.97**	**160.3**	**40.39**
Company and Plant: Public Serv Electric & Gas-NJ, Hudson						
1991						
Kentucky	24.7	13,096	0.80	7.46	170.0	44.53
West Virginia	486.5	13,040	.80	7.83	184.7	48.18
Total	**511.2**	**13,043**	**.80**	**7.81**	**184.0**	**48.01**
1992						
Kentucky	189.1	13,197	.83	6.64	183.3	48.38
West Virginia	380.3	13,069	.82	7.36	173.1	45.24
Total	**569.4**	**13,111**	**.82**	**7.12**	**176.5**	**46.28**
1993						
Kentucky	76.0	13,336	.84	6.75	185.7	49.54
West Virginia	362.0	12,930	.81	7.93	188.1	48.65
Total	**438.0**	**13,000**	**.82**	**7.73**	**187.7**	**48.80**
1994						
Kentucky	251.3	13,158	.73	7.48	202.1	53.19
West Virginia	293.6	13,102	.80	7.53	202.5	53.05
Colombia	22.5	12,870	.68	6.90	166.9	42.96
Total	**567.4**	**13,118**	**.77**	**7.48**	**200.9**	**52.71**
1995						
Kentucky	436.3	13,082	.65	6.77	191.2	50.02
West Virginia	252.1	13,070	.83	7.59	179.5	46.93
Total	**688.4**	**13,078**	**.71**	**7.07**	**186.9**	**48.89**
1996						
Kentucky	172.8	13,008	.67	7.51	178.4	46.41
West Virginia	536.8	12,588	.88	10.65	170.4	42.90
Total	**709.6**	**12,690**	**.83**	**9.88**	**172.4**	**43.76**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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-NJ, Hudson					
1997						
January - March						
Kentucky	106.0	13,059	0.65	7.47	174.3	45.53
West Virginia	74.2	12,379	.96	13.10	162.0	40.11
Total	**180.2**	**12,779**	**.78**	**9.79**	**169.4**	**43.29**
April - June						
West Virginia	99.9	12,715	.87	10.05	173.5	44.13
Total	**99.9**	**12,715**	**.87**	**10.05**	**173.5**	**44.13**
July - September						
West Virginia	107.2	12,503	.92	11.29	167.5	41.89
Total	**107.2**	**12,503**	**.92**	**11.29**	**167.5**	**41.89**
October - December						
West Virginia	33.1	12,318	.97	12.33	161.9	39.89
Total	**33.1**	**12,318**	**.97**	**12.33**	**161.9**	**39.89**
Year to Date						
Kentucky	106.0	13,059	.65	7.47	174.3	45.53
West Virginia	314.4	12,522	.92	11.43	167.6	41.97
Total	**420.4**	**12,657**	**.85**	**10.43**	**169.3**	**42.87**
	Company and Plant: Savannah Electric and Power, Port Wentworth					
1991						
Kentucky	10.3	12,308	0.97	10.84	167.7	41.27
Virginia	178.6	12,665	.87	9.55	165.2	41.85
Total	**189.0**	**12,646**	**.87**	**9.63**	**165.3**	**41.82**
1992						
Kentucky	3.0	11,947	1.36	13.60	132.2	31.59
Virginia	60.5	12,392	.98	11.96	148.1	36.71
Total	**63.5**	**12,371**	**1.00**	**12.04**	**147.4**	**36.46**
1993						
Kentucky	80.2	12,770	.98	9.66	175.8	44.91
Virginia	174.6	12,782	.99	10.15	173.0	44.22
West Virginia	5.1	12,738	.77	8.60	166.7	42.46
Total	**259.9**	**12,777**	**.98**	**9.97**	**173.7**	**44.40**
1994						
Kentucky	106.7	12,520	1.19	9.54	172.2	43.13
Virginia	31.6	12,543	.98	10.23	169.4	42.49
Colombia	11.9	11,235	.69	5.87	214.1	48.12
Venezuela	16.8	12,575	1.12	8.60	168.0	42.25
Total	**167.0**	**12,438**	**1.11**	**9.31**	**174.0**	**43.27**
1995						
Kentucky	9.9	11,801	.55	14.50	143.0	33.75
Virginia	130.3	13,124	.87	9.43	159.0	41.74
Total	**140.3**	**13,030**	**.85**	**9.79**	**158.0**	**41.17**
1996						
Venezuela	209.9	12,143	1.08	6.71	152.8	37.11
Total	**209.9**	**12,143**	**1.08**	**6.71**	**152.8**	**37.11**
1997						
January - March						
Venezuela	38.4	11,867	1.60	8.20	136.6	32.42
Total	**38.4**	**11,867**	**1.60**	**8.20**	**136.6**	**32.42**
April - June						
Venezuela	60.6	11,867	1.58	8.20	138.1	32.79
Total	**60.6**	**11,867**	**1.58**	**8.20**	**138.1**	**32.79**
July - September						
Venezuela	130.3	12,115	1.20	7.64	139.0	33.67
Total	**130.3**	**12,115**	**1.20**	**7.64**	**139.0**	**33.67**
October - December						
Venezuela	49.8	11,682	.85	6.94	119.9	28.01
Total	**49.8**	**11,682**	**.85**	**6.94**	**119.9**	**28.01**
Year to Date						
Venezuela	279.1	11,949	1.28	7.72	135.1	32.29
Total	**279.1**	**11,949**	**1.28**	**7.72**	**135.1**	**32.29**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality[1]			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
	Company and Plant: Takoma Dept. of Public Utilities, Steam No.2					
1991						
Washington	0.1	12,846	0.70	14.50	170.0	43.68
Canada	26.9	9,994	.46	12.76	209.2	41.82
Total	**27.0**	**10,004**	**.46**	**12.76**	**209.0**	**41.82**
1992						
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						
Montana	10.0	9,482	.37	4.10	182.6	34.63
Washington	2.2	10,967	.70	14.47	163.5	35.87
Canada	29.2	10,036	.48	12.60	179.5	36.03
Total	**41.4**	**9,951**	**.46**	**10.64**	**179.3**	**35.68**
1994						
Montana	26.4	9,465	.41	4.63	175.8	33.27
Washington	3.3	10,865	.72	13.30	165.3	35.91
Canada	6.3	9,806	.48	12.80	178.0	34.91
Total	**36.1**	**9,655**	**.45**	**6.87**	**175.1**	**33.81**
1995						
Montana	3.8	9,470	.36	4.64	180.0	34.09
Canada	23.8	10,066	.47	13.14	166.0	33.42
Total	**27.6**	**9,983**	**.46**	**11.96**	**167.8**	**33.51**
1996						
Montana	3.9	9,516	.50	5.00	176.0	33.50
Wyoming	.3	8,858	.27	5.13	109.0	19.31
Canada	18.0	9,861	.44	12.97	174.6	34.44
Total	**22.2**	**9,788**	**.45**	**11.47**	**174.1**	**34.09**
1997						
January - March						
Canada	4.4	9,979	.36	12.97	176.0	35.13
Total	**4.4**	**9,979**	**.36**	**12.97**	**176.0**	**35.13**
July - September						
Washington	*	2,189	.43	62.30	121.0	5.30
Canada	5.2	10,283	.48	11.65	171.0	35.17
Total	**5.3**	**10,229**	**.48**	**11.99**	**170.9**	**34.97**
October - December						
Washington	1.4	10,819	.70	16.49	154.2	33.37
Total	**1.4**	**10,819**	**.70**	**16.49**	**154.2**	**33.37**
Year to Date						
Washington	1.5	10,616	.70	17.57	154.0	32.71
Canada	9.6	10,144	.43	12.25	173.2	35.15
Total	**11.1**	**10,208**	**.46**	**12.96**	**170.6**	**34.82**
	Company and Plant: Tampa Electric, Big Bend[2]					
1991						
Illinois	1,112.9	11,046	2.95	9.16	193.5	42.74
Indiana	163.5	11,067	2.91	8.63	110.7	24.51
Kentucky	3,888.7	12,461	2.20	7.76	182.4	45.46
Pennsylvania	2.8	13,004	1.46	6.90	127.5	33.16
Tennessee	158.3	12,795	1.18	6.54	218.2	55.84
West Virginia	450.0	13,261	2.40	7.48	206.5	54.77
Indonesia	24.3	9,815	.07	1.20	227.3	44.62
Total	**5,800.5**	**12,211**	**2.34**	**7.97**	**185.7**	**45.34**
1993						
Illinois	35.2	11,194	.82	11.00	185.1	41.44
Total	**35.2**	**11,194**	**.82**	**11.00**	**185.1**	**41.44**
	Company and Plant: Tampa Electric, Davant Transfer					
1992						
Colorado	180.6	13,092	0.45	10.01	146.5	38.37
Illinois	1,224.1	11,287	2.87	8.89	181.0	40.86
Kentucky	3,358.9	12,415	2.30	7.91	178.7	44.37
Tennessee	268.8	12,861	1.19	6.20	217.6	55.98
Utah	31.6	11,596	.39	8.20	163.8	37.99

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (Continued)

Time Period and State or Country of Origin	Quantity (thousand short tons)	Average Quality[1]			Average Cost Delivered	
		Btu per Pound	Sulfur Percent by Weight	Ash Percent by Weight	Cents per Million Btu	Dollars per Short Ton
	Company and Plant: Tampa Electric, Davant Transfer					
1992						
West Virginia	451.8	13,137	2.38	7.64	207.1	54.41
Wyoming	12.3	8,887	.20	4.70	142.3	25.29
Total	**5,528.1**	**12,255**	**2.30**	**8.09**	**182.4**	**44.70**
1993						
Illinois	1,346.0	11,380	2.77	8.93	170.6	38.82
Indiana	18.8	11,230	3.02	10.43	123.1	27.64
Kentucky	2,783.2	12,425	2.20	7.94	189.3	47.05
Tennessee	304.6	12,740	1.12	7.02	203.7	51.89
Utah	186.5	11,586	.35	8.25	156.1	36.17
West Virginia	728.0	13,186	2.27	7.40	172.4	45.47
Colombia	222.2	10,844	.62	7.63	166.6	36.13
Venezuela	61.4	11,056	1.48	9.78	220.7	48.80
Total	**5,650.8**	**12,182**	**2.16**	**8.08**	**181.9**	**44.31**
1994						
Colorado	422.5	12,980	.44	9.88	158.7	41.19
Illinois	1,874.6	11,234	2.94	9.45	164.6	36.99
Kentucky	2,399.8	12,268	2.49	7.39	186.9	45.85
Pennsylvania	70.0	13,276	2.39	7.75	132.2	35.11
Tennessee	276.1	12,628	1.14	7.43	215.3	54.38
West Virginia	626.3	13,096	2.63	7.34	167.5	43.88
Wyoming	117.8	8,746	.28	5.12	131.6	23.01
Indonesia	147.2	9,871	.09	1.10	143.0	28.24
Total	**5,934.5**	**11,979**	**2.33**	**8.02**	**174.8**	**41.89**
1995						
Colorado	810.8	12,745	.43	9.84	184.3	46.99
Illinois	2,370.8	11,536	2.26	8.27	170.5	39.33
Kentucky	1,737.5	11,818	2.62	7.35	139.0	32.86
Tennessee	120.2	12,565	1.12	8.66	229.2	57.59
Indonesia	348.9	9,696	.31	1.16	143.8	27.88
Total	**5,388.1**	**11,713**	**1.95**	**7.76**	**162.5**	**38.06**
1996						
Colorado	138.6	12,929	.48	10.04	190.8	49.32
Illinois	2,993.7	11,914	2.52	7.85	159.0	37.88
Kentucky	1,659.8	11,667	2.78	7.90	127.6	29.78
West Virginia	157.5	13,120	2.38	8.01	130.1	34.14
Wyoming	590.7	8,833	.21	4.39	142.0	25.09
Indonesia	807.8	9,655	.29	1.48	149.7	28.91
Total	**6,348.2**	**11,327**	**2.04**	**6.78**	**148.3**	**33.59**
1997						
January - March						
Illinois	775.5	11,935	2.28	8.23	161.6	38.57
Indiana	4.8	11,216	.70	7.30	164.4	36.88
Kentucky	410.1	11,615	3.05	9.17	130.8	30.39
West Virginia	97.2	13,288	1.81	6.97	130.1	34.58
Wyoming	209.8	8,724	.45	5.22	143.1	24.97
Indonesia	218.8	9,482	.37	1.67	161.3	30.59
Total	**1,716.3**	**11,228**	**1.97**	**7.18**	**150.1**	**33.70**
April - June						
Illinois	757.1	11,957	2.46	8.67	161.0	38.51
Kentucky	493.0	11,588	3.10	9.71	128.9	29.88
West Virginia	152.0	13,220	2.01	7.25	130.1	34.40
Wyoming	309.8	8,714	.44	5.24	142.1	24.77
Indonesia	68.2	9,521	.32	1.50	163.3	31.10
Total	**1,780.1**	**11,305**	**2.16**	**7.96**	**146.4**	**33.09**
July - September						
Illinois	754.2	11,897	2.29	8.74	156.0	37.12
Kentucky	511.5	11,644	2.97	9.51	134.7	31.38
West Virginia	29.3	13,057	2.80	9.38	125.6	32.80
Wyoming	268.8	8,706	.41	5.40	139.4	24.27
Indonesia	219.9	9,736	.35	1.20	163.3	31.80
Total	**1,783.8**	**11,096**	**1.97**	**7.54**	**147.8**	**32.81**
October - December						
Illinois	837.6	11,992	2.31	8.52	151.3	36.28
Kentucky	529.1	11,589	2.71	8.95	134.2	31.10
West Virginia	60.0	12,971	3.06	9.33	126.9	32.92
Wyoming	182.1	8,749	.42	5.31	139.0	24.33
Indonesia	234.3	9,649	.34	1.43	163.3	31.52

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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					
1997						
October - December						
Venezuela	58.6	12,953	1.47	3.50	130.2	33.73
Total	**1,901.7**	**11,341**	**1.99**	**7.33**	**145.1**	**32.92**
Year to Date						
Illinois	3,124.4	11,947	2.33	8.54	157.3	37.59
Indiana	4.8	11,216	.70	7.30	164.4	36.88
Kentucky	1,943.7	11,609	2.95	9.34	132.3	30.71
West Virginia	338.5	13,181	2.21	7.72	129.2	34.05
Wyoming	970.6	8,720	.43	5.29	141.0	24.59
Indonesia	741.3	9,614	.35	1.44	162.7	31.29
Venezuela	58.6	12,953	1.47	3.50	130.2	33.73
Total	**7,181.8**	**11,244**	**2.02**	**7.50**	**147.3**	**33.12**
	Company and Plant: United Illuminating Co, Bridgeport Harbor					
1991						
Kentucky	871.0	13,238	0.55	6.07	216.6	57.35
Total	**871.0**	**13,238**	**.55**	**6.07**	**216.6**	**57.35**
1992						
Kentucky	772.0	13,162	.55	6.25	195.5	51.47
West Virginia	21.0	13,351	.67	6.20	168.9	45.10
Total	**793.0**	**13,167**	**.55**	**6.25**	**194.8**	**51.30**
1993						
Kentucky	665.0	13,113	.54	7.02	170.6	44.74
West Virginia	75.0	13,426	.67	6.33	168.6	45.29
Total	**740.0**	**13,144**	**.55**	**6.95**	**170.4**	**44.80**
1994						
Kentucky	809.0	13,080	.53	7.41	177.6	46.46
West Virginia	54.0	13,306	.64	6.97	173.8	46.25
Total	**863.0**	**13,094**	**.54**	**7.38**	**177.4**	**46.45**
1995						
Kentucky	836.0	13,109	.56	7.05	188.1	49.32
West Virginia	5.0	13,252	.69	6.50	190.0	50.36
Total	**841.0**	**13,110**	**.56**	**7.05**	**188.1**	**49.33**
1996						
Kentucky	903.0	13,098	.54	7.24	191.2	50.09
Venezuela	28.0	13,174	.61	4.10	185.0	48.74
Total	**931.0**	**13,100**	**.54**	**7.14**	**191.0**	**50.05**
1997						
January - March						
Kentucky	191.0	13,092	.55	7.26	192.5	50.41
Virginia	4.0	13,830	.72	5.27	184.2	50.94
West Virginia	22.5	13,151	.61	6.57	187.8	49.40
Total	**217.5**	**13,112**	**.56**	**7.15**	**191.9**	**50.31**
April - June						
Kentucky	214.0	13,103	.53	7.73	193.1	50.60
West Virginia	116.6	13,253	.63	6.85	190.7	50.54
Total	**330.6**	**13,156**	**.56**	**7.42**	**192.2**	**50.58**
July - September						
Kentucky	176.0	13,086	.49	7.41	191.5	50.12
Venezuela	35.0	13,387	.64	4.30	169.6	45.41
Total	**211.0**	**13,136**	**.51**	**6.89**	**187.8**	**49.34**
October - December						
Kentucky	179.0	13,093	.48	7.19	190.2	49.80
West Virginia	14.0	13,321	.59	7.30	171.5	45.69
Total	**193.0**	**13,110**	**.49**	**7.20**	**188.8**	**49.50**
Year to Date						
Kentucky	760.0	13,094	.51	7.41	191.9	50.25
Virginia	4.0	13,830	.72	5.27	184.2	50.94
West Virginia	153.1	13,244	.63	6.85	188.5	49.93
Venezuela	35.0	13,387	.64	4.30	169.6	45.41
Total	**952.1**	**13,132**	**.54**	**7.20**	**190.5**	**50.02**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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
	Total of U.S. Electric Utility Plants					
1991						
Colorado	1,733.6	10,753	0.38	5.99	207.6	44.64
Illinois	3,314.2	11,682	2.78	8.83	205.3	47.97
Indiana	1,019.1	11,036	2.35	8.36	131.1	28.93
Kentucky	9,547.1	12,651	1.59	7.76	176.0	44.52
Maryland	15.1	13,150	1.59	10.50	141.0	37.08
Montana	105.5	9,344	.30	4.10	145.2	27.14
Ohio	1,019.3	12,191	3.57	10.73	124.4	30.33
Pennsylvania	1,760.5	13,039	1.60	7.80	171.4	44.71
Tennessee	158.3	12,795	1.18	6.54	218.2	55.84
Virginia	1,140.4	13,233	1.00	7.39	174.3	46.12
Washington	.1	12,846	.70	14.50	170.0	43.68
West Virginia	9,902.3	12,894	1.00	9.15	174.0	44.86
Wyoming	9,086.3	8,432	.38	5.47	141.1	23.79
Canada	26.9	9,994	.46	12.76	209.2	41.82
Colombia	1,582.6	11,978	.73	7.04	153.1	36.68
Indonesia	24.3	9,815	.07	1.20	227.3	44.62
Venezuela	333.0	13,080	.59	6.54	166.2	43.47
Total	**40,768.7**	**11,557**	**1.23**	**7.63**	**169.8**	**39.26**
1992						
Alabama	71.9	12,060	2.75	12.94	120.6	29.09
Colorado	1,961.3	11,088	.40	6.66	198.7	44.06
Illinois	3,933.7	11,729	2.79	8.55	190.4	44.67
Indiana	826.6	10,901	2.26	8.78	142.3	31.01
Kentucky	9,088.3	12,623	1.47	8.01	171.0	43.16
Montana	86.2	9,388	.31	4.16	137.5	25.82
Ohio	963.7	12,135	3.62	11.27	104.4	25.35
Pennsylvania	1,340.4	13,123	1.60	7.13	167.3	43.92
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
Virginia	348.6	12,938	1.02	8.66	176.3	45.62
Washington	2.3	12,366	.72	14.03	154.5	38.21
West Virginia	10,753.8	12,869	1.00	9.20	168.0	43.25
Wyoming	9,242.1	8,427	.40	5.34	138.8	23.40
Canada	48.1	12,432	1.09	6.72	185.1	46.01
Colombia	1,504.1	11,938	.70	6.91	150.9	36.04
Indonesia	13.1	9,587	.14	1.20	166.9	32.00
Venezuela	240.6	13,206	.69	7.18	164.6	43.49
Total	**40,725.3**	**11,518**	**1.21**	**7.72**	**165.1**	**38.02**
1993						
Alabama	72.3	12,337	2.09	11.73	191.1	47.15
Colorado	1,947.6	10,661	.40	6.86	198.9	42.40
Illinois	3,596.4	11,738	2.56	8.43	174.6	40.99
Indiana	485.4	11,003	2.15	8.88	136.5	30.05
Kentucky	8,293.4	12,664	1.36	8.17	174.5	44.20
Maryland	56.2	13,015	1.30	9.55	161.4	42.00
Montana	187.7	9,428	.39	4.58	160.4	30.24
Ohio	1,151.5	12,135	3.57	11.37	102.2	24.81
Pennsylvania	1,451.4	13,093	1.79	7.35	156.7	41.04
Tennessee	304.6	12,740	1.12	7.02	203.7	51.89
Utah	186.5	11,586	.35	8.25	156.1	36.17
Virginia	435.8	12,995	.94	8.99	186.8	48.56
Washington	2.2	10,967	.70	14.47	163.5	35.87
West Virginia	8,787.9	12,904	1.03	8.97	167.0	43.10
Wyoming	11,393.1	8,389	.38	5.24	134.5	22.56
Canada	29.2	10,036	.48	12.60	179.5	36.03
Colombia	3,585.1	11,867	.66	6.85	149.0	35.37
Indonesia	115.8	10,620	.22	2.07	166.1	35.29
Venezuela	897.5	12,874	.67	6.96	166.4	42.84
Total	**42,979.7**	**11,309**	**1.08**	**7.43**	**160.6**	**36.31**
1994						
Alabama	1.5	12,241	2.87	10.00	204.1	49.97
Colorado	2,861.0	11,189	.42	8.16	181.7	40.67
Illinois	4,198.2	11,616	2.44	8.40	164.4	38.19
Indiana	326.8	11,062	1.82	8.77	121.5	26.88
Kentucky	7,872.9	12,598	1.41	8.27	177.1	44.62
Maryland	138.3	13,155	1.38	9.85	149.9	39.43
Montana	1,314.8	9,404	.40	4.78	138.8	26.11

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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
	Total of U.S. Electric Utility Plants					
1994						
Ohio	937.8	12,266	3.58	10.63	99.0	24.28
Pennsylvania	1,992.6	13,125	1.76	7.34	144.5	37.94
Tennessee	276.1	12,628	1.14	7.43	215.3	54.38
Virginia	127.7	12,926	.87	8.50	173.6	44.89
Washington	3.3	10,865	.72	13.30	165.3	35.91
West Virginia	10,482.8	12,728	.95	9.60	165.0	42.01
Wyoming	10,628.8	8,440	.35	5.15	133.6	22.55
Canada	63.3	10,885	.26	10.53	152.4	33.19
Colombia	2,971.8	11,997	.66	6.76	142.7	34.25
Indonesia	437.3	10,499	.22	1.82	157.4	33.06
South Africa	127.3	11,318	.65	12.60	181.1	41.00
Venezuela	1,355.2	12,649	.76	6.61	172.3	43.60
Total	**46,117.6**	**11,346**	**1.04**	**7.58**	**158.5**	**35.96**
1995						
Colorado	3,552.8	11,471	.42	8.39	170.5	39.12
Illinois	4,594.4	11,754	1.95	7.81	170.7	40.12
Indiana	133.3	11,064	1.31	9.65	116.2	25.72
Kentucky	7,508.7	12,577	1.29	7.99	164.7	41.43
Maryland	265.8	13,113	1.29	9.87	151.1	39.62
Montana	1,273.3	9,400	.38	4.43	140.1	26.34
Ohio	225.7	12,444	3.78	10.17	95.2	23.68
Pennsylvania	2,051.9	13,140	1.78	7.51	137.1	36.04
Tennessee	120.2	12,565	1.12	8.66	229.2	57.59
Texas	40.0	10,540	1.03	21.69	120.2	25.33
Virginia	172.6	13,245	.93	8.77	162.0	42.92
West Virginia	8,208.7	12,619	.81	10.18	162.1	40.90
Wyoming	11,861.9	8,453	.35	5.32	134.3	22.71
Canada	23.8	10,066	.47	13.14	166.0	33.42
Colombia	2,040.1	11,985	.65	6.83	153.9	36.89
Indonesia	428.6	10,181	.35	1.79	149.2	30.37
Venezuela	1,905.7	12,610	.79	6.57	194.1	48.95
Total	**44,407.4**	**11,193**	**.89**	**7.44**	**157.3**	**35.22**
1996						
Colorado	2,481.0	10,807	.41	6.64	143.1	30.94
Illinois	5,346.5	11,951	2.04	7.42	171.3	40.95
Indiana	18.1	11,256	1.58	7.15	97.7	21.99
Kentucky	9,175.1	12,517	1.34	8.49	161.6	40.46
Maryland	277.2	13,143	1.37	9.31	150.2	39.49
Montana	2,167.2	9,394	.40	4.48	141.1	26.51
Ohio	2.3	11,043	2.57	10.80	72.6	16.03
Pennsylvania	1,940.2	13,163	1.75	7.34	142.7	37.56
Virginia	17.9	14,102	.74	5.76	201.2	56.74
West Virginia	10,306.4	12,574	1.08	10.28	153.1	38.49
Wyoming	12,299.2	8,456	.37	5.55	130.7	22.11
Canada	18.0	9,861	.44	12.97	174.6	34.44
Colombia	2,079.9	11,883	.64	7.04	155.7	37.01
Indonesia	833.7	9,741	.31	1.68	150.2	29.26
Venezuela	1,767.6	12,686	.77	6.14	171.7	43.58
Total	**48,730.4**	**11,176**	**.97**	**7.43**	**152.1**	**34.01**
1997						
January - March						
Alabama	28.6	11,900	3.33	12.40	204.2	48.60
Colorado	332.5	10,406	.36	5.66	132.4	27.55
Illinois	1,271.5	11,966	1.85	7.70	184.0	44.03
Indiana	6.4	11,262	.88	7.05	149.7	33.72
Kentucky	1,995.8	12,426	1.45	8.81	167.2	41.55
Maryland	.2	13,208	1.38	9.26	146.7	38.75
Montana	749.3	9,394	.39	4.61	141.3	26.54
Ohio	16.6	11,319	2.78	12.45	90.0	20.37
Pennsylvania	496.2	12,946	1.65	8.48	143.4	37.14
Virginia	28.9	13,080	.86	9.21	165.5	43.31
West Virginia	2,455.4	12,663	.94	10.25	159.1	40.29
Wyoming	3,113.4	8,449	.40	5.58	133.4	22.54
Canada	4.4	9,979	.36	12.97	176.0	35.13
Colombia	336.6	11,964	.68	6.72	167.7	40.12
Indonesia	218.8	9,482	.37	1.67	161.3	30.59
Venezuela	164.2	12,530	.93	7.41	161.8	40.55
Total	**11,218.8**	**11,010**	**.95**	**7.51**	**156.1**	**34.38**

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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
	Total of U.S. Electric Utility Plants					
1997						
April - June						
Alabama	164.9	12,115	2.18	12.80	171.2	41.48
Colorado	296.3	10,390	.39	6.08	131.9	27.42
Illinois	1,062.5	11,994	2.12	8.21	173.3	41.58
Indiana	1.8	10,464	2.44	9.80	115.5	24.17
Kentucky	2,046.8	12,382	1.55	9.27	161.5	39.99
Maryland	39.0	13,048	1.42	9.16	148.6	38.77
Montana	778.9	9,059	.40	4.67	145.3	26.33
Ohio	42.5	12,002	2.80	11.35	86.2	20.68
Pennsylvania	683.8	12,654	1.67	10.14	137.9	34.90
Virginia	50.7	13,258	.88	8.52	155.9	41.34
West Virginia	2,793.3	12,625	.93	10.50	157.9	39.88
Wyoming	3,537.1	8,463	.40	5.50	128.8	21.81
Colombia	738.9	11,947	.68	6.94	152.1	36.35
Indonesia	68.2	9,521	.32	1.50	163.3	31.10
Venezuela	331.7	12,851	.84	6.16	161.7	41.56
Total	**12,636.5**	**11,041**	**.98**	**7.88**	**150.9**	**33.33**
July - September						
Alabama	79.9	11,731	1.51	14.17	175.0	41.07
Colorado	505.9	10,330	.40	6.49	137.6	28.44
Illinois	1,154.4	11,899	1.96	8.21	166.4	39.61
Kentucky	2,101.0	12,394	1.61	9.33	158.7	39.33
Maryland	60.6	13,275	1.47	9.02	147.8	39.24
Montana	869.4	9,398	.38	4.50	148.1	27.84
Ohio	56.4	11,605	3.26	12.52	95.2	22.10
Pennsylvania	598.4	13,156	1.68	7.41	139.4	36.67
Virginia	44.2	13,277	1.00	8.58	169.0	44.88
Washington	*	2,189	.43	62.30	121.0	5.30
West Virginia	2,304.7	12,504	.88	11.24	154.7	38.68
Wyoming	2,972.8	8,467	.41	5.51	126.2	21.37
Canada	5.2	10,283	.48	11.65	171.0	35.17
Colombia	840.7	12,004	.80	6.48	157.5	37.82
Indonesia	219.9	9,736	.35	1.20	163.3	31.80
Venezuela	545.7	12,662	.78	6.52	161.1	40.80
Total	**12,359.3**	**11,102**	**.98**	**7.69**	**150.0**	**33.31**
October - December						
Alabama	89.0	11,600	1.79	13.96	182.9	42.43
Colorado	396.7	10,064	.38	6.04	139.4	28.06
Illinois	1,098.0	12,010	2.06	8.08	164.4	39.50
Indiana	1.8	11,035	2.79	9.90	101.3	22.36
Kentucky	2,082.4	12,378	1.55	8.81	160.1	39.65
Maryland	61.0	13,112	1.47	9.32	147.3	38.62
Montana	823.7	9,429	.39	4.48	146.7	27.67
Ohio	86.0	11,753	3.10	13.04	94.7	22.26
Pennsylvania	754.3	13,112	1.76	7.51	140.1	36.75
Virginia	77.6	13,293	.83	8.77	155.8	41.42
Washington	1.4	10,819	.70	16.49	154.2	33.37
West Virginia	2,183.3	12,586	.89	10.65	152.0	38.26
Wyoming	2,817.6	8,480	.41	5.56	125.4	21.27
Colombia	761.4	12,070	.61	6.68	161.2	38.90
Indonesia	275.0	10,042	.36	1.89	168.3	33.80
Venezuela	360.2	12,830	.82	6.12	153.7	39.43
Total	**11,869.5**	**11,160**	**1.00**	**7.53**	**149.3**	**33.32**
Year to Date						
Alabama	362.4	11,887	2.03	13.36	177.4	42.18
Colorado	1,531.4	10,289	.38	6.11	135.8	27.95
Illinois	4,586.4	11,966	1.99	8.03	172.4	41.26
Indiana	10.0	11,077	1.51	8.06	135.2	29.96
Kentucky	8,226.0	12,395	1.54	9.06	161.8	40.11
Maryland	160.8	13,158	1.46	9.17	147.8	38.89
Montana	3,221.3	9,323	.39	4.56	145.5	27.13
Ohio	201.5	11,728	3.06	12.49	92.6	21.73
Pennsylvania	2,532.7	12,966	1.70	8.39	140.0	36.31
Virginia	201.4	13,250	.88	8.73	160.1	42.43
Washington	1.5	10,616	.70	17.57	154.0	32.71
West Virginia	9,736.7	12,597	.91	10.65	156.1	39.34
Wyoming	12,440.9	8,464	.41	5.54	128.6	21.76

See footnotes at the end of Table A7.

Table A7. Cost and Quality of All Coal Received at Electric Utility Plants that Import Coal by Origin, 1991-1997 (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
	Total of U.S. Electric Utility Plants					
1997						
Year to Date						
Canada	9.6	10,144	0.43	12.25	173.2	35.15
Colombia	2,677.6	12,002	.70	6.69	158.4	38.01
Indonesia	782.0	9,754	.36	1.60	164.6	32.10
Venezuela	1,401.9	12,735	.82	6.44	159.4	40.60
Total	**48,084.0**	**11,079**	**.98**	**7.66**	**151.5**	**33.57**

1 Data reported on quality of coal as received.
2 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.
* Rounded to zero.
Notes: Total may not equal sum of components because of independent rounding. Only plants that have received imported coal since January 1, 1990, are included.
Source: Federal Energy Regulatory Commission, FERC Form 423, ''Monthly Report of Cost and Quality of Fuels for Electric Plants.''

Appendix B

Metric Tables

Appendix B

Metric Tables

In response to requests from international users of U.S. coal statistics, certain summary data have been converted from the customary short tons to metric tons. This enables U.S. statistics to be compared with data published by countries using the metric system. The conversion to metric tons is made by multiplying short tons by .907185. For pounds and British thermal unit (Btu) data, the conversion from Btu to joules is made by multiplying Btu by $1.055x10^3$, and the conversion from pounds to kilograms is made by multiplying pounds by 0.45359.

The data converted to metric tons are from Tables 1, 37, 44, 6/7, 8, 9, 10, 11, 12, 13, 16, and 17. In this section, the correlative data are in Tables B1 through B12, respectively.

Table B1. U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1991-1997

(Thousand Metric Tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks[1]	Consumption	Exports	Consumer Stocks[1]
1991 January - March	231,102	851	38,249	198,863	20,247	155,568
April - June	215,008	662	37,243	189,381	23,781	157,544
July - September	228,101	893	30,507	214,180	28,302	148,651
October - December	229,331	669	29,911	202,812	26,526	152,145
Total	**903,542**	**3,075**		**805,236**	**98,855**	
1992 January - March	232,200	616	36,154	200,119	22,436	152,980
April - June	220,205	947	36,753	190,542	24,503	157,188
July - September	225,939	800	31,931	215,636	24,023	146,854
October - December	226,614	1,087	30,838	203,293	22,039	148,499
Total	**904,958**	**3,450**		**809,591**	**93,001**	
1993 January - March	220,824	1,101	34,884	207,895	17,118	138,453
April - June	212,055	991	31,595	194,882	18,095	140,470
July - September	206,050	1,944	24,660	226,680	16,803	110,594
October - December	218,747	2,595	22,937	210,546	15,586	109,278
Total	**857,675**	**6,631**		**840,003**	**67,603**	
1994 January - March	231,471	1,678	30,971	215,544	13,496	101,857
April - June	233,114	1,430	32,439	202,434	16,275	114,935
July - September	236,642	2,090	29,896	223,004	17,875	109,974
October - December	236,353	1,681	30,136	202,883	17,089	123,504
Total	**937,580**	**6,880**		**843,865**	**64,735**	
1995 January - March	242,328	1,629	38,519	206,562	17,226	130,638
April - June	226,209	1,460	38,196	197,309	21,032	137,581
July - September	233,924	1,565	32,833	235,338	20,116	119,512
October - December	234,638	1,879	31,247	214,344	21,955	122,142
Total	**937,098**	**6,533**		**853,552**	**80,329**	
1996 January - March	235,646	1,554	33,430	220,772	18,611	113,173
April - June	238,950	1,408	33,878	207,985	20,901	121,817
July - September	246,861	1,878	30,645	235,557	21,322	115,746
October - December	243,656	1,624	25,989	227,752	21,241	111,564
Total	**965,114**	**6,464**		**892,066**	**82,075**	
1997 January - March	248,503	1,208	34,059	223,855	18,154	109,384
April - June	244,669	1,549	38,581	212,158	18,691	116,914
July - September	246,111	2,016	35,481	244,332	20,280	100,540
October - December	248,297	2,019	29,827	233,928	18,666	96,921
Total	**987,579**	**6,792**		**914,273**	**75,791**	

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

Notes: Consumption data for 1991 through 1996 exclude coal consumed by independent power producers to generate electricity and cogeneration plants not included in the other industrial, coke, and commercial sectors. For 1991 through 1996, these excluded EIA quarterly estimated consumption data are: 1361, 2268, 2800, 3434, 4717, and 5443 thousand metric tons, respectively. Total may not equal sum of components because of independent rounding.

Sources: • Production: Energy Information Administration (EIA), Form EIA-6, Schedule Q, ''Quarterly Coal 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, Schedule Q, ''Quarterly Coal Report;'' and, 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-867, ''Annual Nonutility Power Producer Report;'' Form EIA-7A, ''Coal Production Report;'' Form EIA-5, ''Coke Plant Report - Quarterly;'' and Form EIA-6, ''Coal Distribution Report.''

Table B2. U.S. Coal Consumption by End-Use Sector, 1991-1997

(Thousand Metric Tons)

Year and Quarter	Electric Utilities	Coke Plants	Other Industrial	Residential and Commercial	Total
1991 January - March	171,722	7,521	17,797	1,822	198,863
April - June	165,550	7,326	15,549	957	189,381
July - September	188,815	7,962	16,376	1,027	214,180
October - December	174,502	7,902	18,685	1,723	202,812
Total	**700,590**	**30,712**	**68,406**	**5,529**	**805,236**
1992 January - March	173,410	7,566	17,472	1,672	200,119
April - June	166,474	7,345	15,680	1,042	190,542
July - September	190,889	7,439	16,187	1,121	215,636
October - December	176,704	7,012	17,831	1,746	203,293
Total	**707,477**	**29,362**	**67,170**	**5,582**	**809,591**
1993 January - March	181,695	7,060	17,492	1,648	207,895
April - June	170,321	7,154	16,179	1,229	194,882
July - September	202,431	7,222	16,034	993	226,680
October - December	183,556	6,980	18,236	1,774	210,546
Total	**738,002**	**28,416**	**67,941**	**5,644**	**840,003**
1994 January - March	188,617	7,034	18,063	1,829	215,544
April - June	178,039	7,225	16,093	1,077	202,434
July - September	198,325	7,208	16,441	1,030	223,004
October - December	176,433	7,327	17,604	1,519	202,883
Total	**741,415**	**28,794**	**68,201**	**5,455**	**843,865**
1995 January - March	180,332	7,384	17,359	1,486	206,562
April - June	173,369	7,522	15,482	936	197,309
July - September	210,497	7,557	16,321	964	235,338
October - December	187,865	7,485	17,113	1,881	214,344
Total	**752,063**	**29,947**	**66,275**	**5,268**	**853,552**
1996 January - March	195,033	7,219	16,885	1,634	220,772
April - June	184,349	7,226	15,320	1,090	207,985
July - September	211,926	7,272	15,269	1,090	235,557
October - December	202,189	7,046	16,883	1,634	227,752
Total	**793,498**	**28,763**	**64,357**	**5,448**	**892,066**
1997 January - March	198,687	6,886	16,648	1,634	223,855
April - June	188,841	6,683	15,544	1,090	212,158
July - September	221,331	6,657	15,254	1,090	244,332
October - December	209,114	6,485	16,694	1,634	233,928
Total	**817,974**	**26,711**	**64,140**	**5,448**	**914,273**

Notes: Consumption data for 1991 through 1996 exclude coal consumed by independent power producers to generate electricity and cogeneration plants not included in the other industrial, coke, and commercial sectors. For 1991 through 1996, these excluded quarterly estimated consumption data are: 1361, 2268, 2800, 3434, 4747, and 5443 thousand metric tons, respectively. 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;'' Form EIA-867, ''Annual Nonutility Power Producer Report;'' and EIA-7A, ''Coal Production Report'' • Residential and Commercial: Form EIA-6, ''Coal Distribution Report.''

Table B3. U.S. Coal Stocks, 1991-1997

(Thousand Metric Tons)

Last Day of Quarter	Coal Consumers[1]				Coal Producers and Distributors	Total
	Electric Utilities	Coke Plants	Other Industrial[2]	Total		
1991 March 31	146,133	2,839	6,596	155,568	38,249	193,818
June 30	148,288	2,978	6,278	157,544	37,243	194,787
September 30	139,622	2,445	6,584	148,651	30,507	179,158
December 31	143,223	2,516	6,406	152,145	29,911	182,056
1992 March 31	145,178	2,608	5,194	152,980	36,154	189,135
June 30	148,938	2,519	5,731	157,188	36,753	193,941
September 30	138,513	2,009	6,331	146,854	31,931	178,785
December 31	139,824	2,356	6,318	148,499	30,838	179,337
1993 March 31	130,614	2,549	5,290	138,453	34,884	173,338
June 30	132,225	2,739	5,507	140,470	31,595	172,065
September 30	102,360	2,300	5,933	110,594	24,660	135,254
December 31	101,007	2,179	6,093	109,278	22,937	132,215
1994 March 31	95,423	2,025	4,408	101,857	30,971	132,827
June 30	107,403	2,503	5,029	114,935	32,439	147,373
September 30	101,889	2,455	5,630	109,974	29,896	139,870
December 31	115,119	2,410	5,974	123,504	30,136	153,639
1995 March 31	123,176	2,467	4,995	130,638	38,519	169,157
June 30	130,076	2,381	5,124	137,581	38,196	175,777
September 30	111,790	2,246	5,476	119,512	32,833	152,345
December 31	114,582	2,388	5,173	122,142	31,247	153,390
1996 March 31	106,810	2,344	4,020	113,173	33,430	146,604
June 30	115,315	2,360	4,142	121,817	33,878	155,694
September 30	108,384	2,553	4,809	115,746	30,645	146,390
December 31	103,985	2,419	5,161	111,564	25,989	137,554
1997 March 31	103,084	2,152	4,147	109,384	34,059	143,443
June 30	110,744	1,860	4,310	116,914	38,581	155,495
September 30	93,542	2,155	4,842	100,540	35,481	136,020
December 31	89,653	2,190	5,078	96,921	29,827	126,749

1 The Residential and Commercial sector are not included. See Technical Note 6 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, Schedule Q, ''Quarterly Coal Report'' and Form EIA-6, ''Coal Distribution Report.''

Table B4. U.S. Coal Exports and Imports, 1991-1997

(Thousand Metric Tons, Dollars per Metric Ton)

Year	1991	1992	1993	1994	1995	1996	1997
January - March							
Exports							
Quantity	20,247	22,436	17,118	13,496	17,226	18,611	18,154
Price	$49.14	$46.61	$46.80	$46.18	$43.98	$46.04	$45.99
Imports							
Quantity	851	616	1,101	1,678	1,629	1,554	1,208
Price	$37.16	$37.07	$33.84	$31.81	$35.64	$36.95	$37.31
April - June							
Exports							
Quantity	23,781	24,503	18,095	16,275	21,032	20,901	18,691
Price	$47.37	$45.57	$45.66	$44.10	$43.64	$44.95	$44.97
Imports							
Quantity	662	947	991	1,430	1,460	1,408	1,549
Price	$38.14	$36.33	$35.56	$31.67	$39.86	$35.78	$38.87
July - September							
Exports							
Quantity	28,302	24,023	16,803	17,875	20,116	21,322	20,280
Price	$45.76	$44.86	$44.89	$42.84	$45.18	$44.68	$43.45
Imports							
Quantity	893	800	1,944	2,090	1,565	1,878	2,016
Price	$34.67	$37.95	$32.54	$34.08	$37.05	$36.59	$37.14
October - December							
Exports							
Quantity	26,526	22,039	15,586	17,089	21,955	21,241	18,666
Price	$45.36	$45.27	$45.19	$43.46	$44.70	$44.18	$44.53
Imports							
Quantity	669	1,087	2,595	1,681	1,879	1,624	2,019
Price	$36.55	$36.46	$31.87	$35.20	$38.07	$38.08	$38.02
Total							
Exports							
Quantity	98,855	93,001	67,603	64,735	80,329	82,075	75,791
Price	$46.73	$45.57	$45.65	$44.02	$44.39	$44.93	$44.70
Imports							
Quantity	3,075	3,450	6,631	6,880	6,533	6,464	6,792
Price	$36.51	$36.88	$32.95	$33.30	$37.62	$36.87	$37.83

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

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

Table B5. U.S. Coal Exports

(Metric Tons)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**4,558,639**	**5,418,914**	**4,530,613**	**15,373,818**	**12,346,302**	**24.5**
Canada[1]	4,149,954	4,882,268	3,954,388	13,585,516	10,912,134	24.5
Jamaica	12,411	–	7,452	37,670	21,679	73.8
Mexico	392,896	516,913	545,587	1,722,426	1,368,501	25.9
Other[2]	3,378	19,733	23,186	28,206	43,988	–35.9
South America Total	**1,559,521**	**2,113,273**	**1,840,638**	**7,451,702**	**6,808,143**	**9.5**
Argentina	50,508	84,168	44,128	295,149	275,672	7.1
Brazil	1,448,772	1,907,770	1,602,835	6,762,630	5,933,054	14.0
Chile	75	45,104	149,939	132,269	520,534	–74.6
Other[2]	60,166	76,231	43,736	261,654	78,883	231.7
Europe Total	**8,814,053**	**8,835,380**	**10,486,219**	**37,495,003**	**42,812,591**	**–12.4**
Belgium & Luxembourg	940,728	970,040	891,443	3,918,037	4,145,184	–5.5
Bulgaria	101,533	307,366	305,676	1,010,820	1,258,142	–19.7
Denmark	–	113,601	230,439	317,578	1,194,293	–73.4
Finland	216,479	198,238	58,498	600,129	638,267	–6.0
France	755,042	672,346	1,079,104	3,082,913	3,494,895	–11.8
Germany, FR	184,021	217,442	233,973	789,428	957,018	–17.5
Ireland	21,312	209,689	229,839	577,667	694,031	–16.8
Italy	1,403,139	1,707,654	1,901,471	6,367,559	8,349,948	–23.7
Netherlands	1,003,836	1,006,387	1,318,488	4,377,466	6,403,081	–31.6
Norway	21,402	16,357	25,930	87,412	77,102	13.4
Portugal	406,804	410,700	647,333	1,333,752	1,635,253	–18.4
Romania	608,960	496,182	353,674	2,035,443	1,371,692	48.4
Spain	853,157	942,779	874,443	3,750,322	3,712,670	1.0
Sweden	370,898	231,418	341,990	756,292	970,310	–22.1
Turkey	350,381	410,065	481,457	1,897,717	1,965,910	–3.5
United Kingdom	1,544,562	911,074	1,410,308	6,517,861	5,620,520	16.0
Other[2]	31,799	14,042	102,153	74,607	324,275	–77.0
Asia Total	**3,186,576**	**3,453,741**	**3,808,419**	**13,152,202**	**16,311,496**	**–19.4**
China (Taiwan)	678,556	424,481	454,628	2,032,719	2,214,869	–8.2
Israel	60,835	176,301	347,036	537,991	1,090,228	–50.7
Japan	1,508,494	1,926,744	1,998,974	7,233,842	9,551,391	–24.3
Korea, Republic of	929,566	786,023	1,006,796	3,165,385	3,422,518	–7.5
Other[2]	9,125	140,192	985	182,265	32,490	461.0
Oceania & Australia Total	**–**	**185**	**551**	**738**	**828**	**–10.9**
Africa Total	**547,499**	**458,122**	**574,482**	**2,317,153**	**3,796,062**	**–39.0**
Algeria	49,904	89,874	55,919	239,577	160,162	49.6
Egypt	242,711	205,846	222,412	1,025,274	941,237	8.9
Morocco	–	–	129,550	128,802	1,497,264	–91.4
South Africa, Rep of	239,058	150,155	166,601	895,129	1,197,399	–25.2
Other[2]	15,826	12,247	–	28,371	–	–
Total	**18,666,288**	**20,279,615**	**21,240,922**	**75,790,616**	**82,075,422**	**–7.7**

[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 1996.

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

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

Table B6. Average Price of U.S. Coal Exports

(Dollars per Metric Ton)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**$33.46**	**$33.08**	**$35.22**	**$33.70**	**$36.48**	**–7.6**
Canada[1]	31.82	31.55	34.11	32.15	35.53	–9.5
Jamaica	33.65	–	41.00	42.10	38.34	9.8
Mexico	50.31	47.48	42.68	45.53	43.77	4.0
Other[2]	44.95	40.47	43.84	41.80	43.71	–4.4
South America Total	**48.86**	**48.35**	**48.05**	**48.44**	**48.29**	**.3**
Argentina	50.78	54.02	53.31	52.57	51.11	2.9
Brazil	48.94	48.63	49.19	48.64	49.25	–1.2
Chile	–	31.78	35.25	35.54	35.69	–.4
Other[2]	44.88	44.98	44.42	44.98	43.19	4.1
Europe Total	**48.69**	**47.15**	**46.48**	**47.42**	**46.41**	**2.2**
Belgium & Luxembourg	51.21	47.58	49.90	50.38	50.41	*
Bulgaria	51.07	50.27	50.44	51.17	48.79	4.9
Denmark	–	31.35	32.06	34.97	32.29	8.3
Finland	43.59	48.54	37.80	45.89	46.42	–1.1
France	49.55	52.95	49.56	50.66	49.53	2.3
Germany, FR	52.76	45.50	56.64	49.15	45.28	8.6
Ireland	52.00	41.25	41.23	41.88	41.17	1.7
Italy	51.41	49.52	50.05	50.19	49.66	1.1
Netherlands	49.83	50.60	46.88	49.57	45.59	8.7
Norway	64.35	–	57.20	64.35	62.89	2.3
Portugal	40.07	41.05	39.89	40.52	40.26	.6
Romania	48.47	43.85	47.82	49.14	51.76	–5.1
Spain	46.14	38.33	44.35	40.79	41.41	–1.5
Sweden	53.22	52.88	52.59	53.13	52.36	1.5
Turkey	49.04	51.21	46.70	50.78	48.86	3.9
United Kingdom	45.89	46.28	40.76	43.32	42.88	1.0
Other[2]	63.57	66.04	38.92	62.51	41.92	49.1
Asia Total	**42.96**	**43.44**	**43.17**	**43.79**	**43.62**	**.4**
China (Taiwan)	41.16	40.36	40.92	40.51	40.63	–.3
Israel	38.52	40.73	40.79	40.58	40.12	1.1
Japan	41.23	42.94	43.63	42.99	43.44	–1.0
Korea, Republic of	47.38	47.52	44.10	48.48	47.10	2.9
Other[2]	43.36	40.14	42.68	40.05	53.89	–25.7
Oceania & Australia Total	–	**44.89**	**44.92**	**44.93**	**44.89**	**.1**
Africa Total	**53.64**	**52.25**	**52.01**	**53.46**	**48.90**	**9.3**
Algeria	52.35	50.01	56.48	51.41	55.37	–7.2
Egypt	53.84	54.91	57.07	56.54	58.83	–3.9
Morocco	–	–	39.15	33.81	37.40	–9.6
South Africa, Rep of	54.28	50.86	53.75	53.64	54.61	–1.8
Other[2]	44.99	41.04	–	43.29	–	–
Total[3]	**44.23**	**43.04**	**43.83**	**44.36**	**44.67**	**–.7**
U.S. Total[4]	**44.53**	**43.45**	**44.19**	**44.70**	**44.93**	**–.5**

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

2 Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 1996.

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 $20 to $60 per short ton ($18.14 to $54.43 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	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**2,982,868**	**3,688,803**	**2,829,679**	**10,516,291**	**6,449,923**	**63.0**
Canada[1]	2,706,306	3,271,765	2,374,095	9,148,344	5,442,054	68.1
Jamaica	12,411	–	7,452	37,670	21,679	73.8
Mexico	260,773	397,305	424,946	1,302,071	942,202	38.2
Other[2]	3,378	19,733	23,186	28,206	43,988	–35.9
South America Total	**73,203**	**127,281**	**205,714**	**519,636**	**626,975**	**–17.1**
Argentina	8,605	4,112	9,703	43,759	12,045	263.3
Brazil	4,357	1,834	2,336	81,954	86,134	–4.9
Chile	75	45,104	149,939	132,269	450,092	–70.6
Other[2]	60,166	76,231	43,736	261,654	78,704	232.5
Europe Total	**2,040,769**	**2,792,567**	**4,062,708**	**11,366,677**	**17,181,948**	**–33.8**
Belgium & Luxembourg	187,862	330,232	287,809	858,821	1,020,163	–15.8
Bulgaria	–	–	49,562	–	157,077	–
Denmark	–	113,601	230,439	317,578	1,194,293	–73.4
Finland	90,626	–	58,498	145,385	148,801	–2.3
France	127,697	–	256,947	310,475	697,398	–55.5
Germany, FR	26,606	56,064	–	200,151	469,034	–57.3
Ireland	21,312	209,689	229,839	468,060	694,031	–32.6
Italy	316,676	706,728	733,704	2,211,511	3,548,353	–37.7
Netherlands	130,030	126,822	327,929	645,391	2,645,935	–75.6
Norway	–	–	11,246	6,022	21,664	–72.2
Portugal	342,754	346,617	585,624	1,139,577	1,477,089	–22.8
Romania	–	86,669	–	86,669	–	–
Spain	275,865	477,442	331,821	1,707,948	1,805,144	–5.4
Sweden	–	–	5,000	–	75,002	–
Turkey	1,804	1,207	807	4,621	127,276	–96.4
United Kingdom	499,537	337,496	851,330	3,238,510	2,825,525	14.6
Other[2]	20,000	–	102,153	25,958	275,163	–90.6
Asia Total	**1,376,234**	**1,690,792**	**1,708,634**	**5,914,781**	**8,315,168**	**–28.9**
China (Taiwan)	435,585	289,282	349,710	1,529,600	1,873,967	–18.4
Israel	217	142,149	224,827	414,105	849,404	–51.2
Japan	594,439	832,352	765,880	2,887,344	4,514,516	–36.0
Korea, Republic of	336,868	297,220	367,232	922,617	1,066,153	–13.5
Other[2]	9,125	129,789	985	161,115	11,128	(3)
Oceania & Australia Total	**–**	**185**	**551**	**738**	**828**	**–10.9**
Africa Total	**16,587**	**12,247**	**129,550**	**158,842**	**1,464,905**	**–89.2**
Egypt	761	–	–	1,669	825	102.3
Morocco	–	–	129,550	128,802	1,464,080	–91.2
Other[2]	15,826	12,247	–	28,371	–	–
Total	**6,489,661**	**8,311,875**	**8,936,836**	**28,476,965**	**34,039,747**	**–16.3**

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

2 Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 1996.

3 Changes of 500 percent or more are not shown.

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

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

Table B8. Average Price of U.S. Steam Coal Exports

(Dollars per Metric Ton)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**$30.03**	**$30.80**	**$31.99**	**$31.15**	**$32.42**	**–3.9**
Canada[1]	28.18	29.07	30.36	29.37	30.93	–5.0
Jamaica	33.65	–	41.00	42.10	38.34	9.8
Mexico	48.02	44.30	39.84	42.63	39.91	6.8
Other[2]	44.95	40.47	43.84	41.80	43.71	–4.4
South America Total	**44.90**	**40.30**	**37.44**	**42.74**	**38.52**	**11.0**
Argentina	44.99	44.97	44.98	44.96	44.67	.6
Brazil	44.97	44.95	44.90	46.43	44.73	3.8
Chile	–	31.78	35.25	35.54	36.11	–1.6
Other[2]	44.88	44.98	44.42	44.98	43.16	4.2
Europe Total	**36.49**	**36.10**	**36.97**	**35.85**	**37.16**	**–3.5**
Belgium & Luxembourg	39.70	39.43	39.99	40.06	40.45	–1.0
Bulgaria	–	–	59.15	–	55.72	–
Denmark	–	31.35	32.06	34.97	32.29	8.3
Finland	39.90	–	37.80	39.90	38.83	2.8
France	37.30	–	39.18	38.40	39.83	–3.6
Germany, FR	42.95	30.00	–	38.62	35.19	9.7
Ireland	52.00	41.25	41.23	42.03	41.17	2.1
Italy	42.61	42.01	43.97	43.32	45.41	–4.6
Netherlands	36.23	36.40	36.59	35.85	36.31	–1.3
Portugal	38.50	39.67	38.88	39.11	39.24	–.3
Romania	–	32.15	–	32.15	–	–
Spain	27.90	23.80	23.91	24.67	24.41	1.1
Sweden	–	–	47.90	–	43.22	–
Turkey	48.42	44.98	44.94	46.31	45.50	1.8
United Kingdom	32.95	34.49	31.70	33.06	31.77	4.1
Other[2]	–	–	38.92	38.13	38.10	.1
Asia Total	**37.85**	**38.20**	**39.06**	**38.51**	**39.51**	**–2.5**
China (Taiwan)	37.72	37.71	38.69	38.26	38.95	–1.8
Israel	44.95	39.79	38.45	39.60	38.71	2.3
Japan	37.97	37.69	39.44	38.55	40.02	–3.7
Korea, Republic of	37.66	39.28	38.96	38.59	38.93	–.9
Other[2]	43.36	38.29	42.68	36.99	42.17	–12.3
Oceania & Australia Total	**–**	**44.89**	**44.92**	**44.93**	**44.89**	**.1**
Africa Total	**44.98**	**41.04**	**39.15**	**35.62**	**37.50**	**–5.0**
Egypt	44.76	–	–	44.89	44.97	–.2
Morocco	–	–	39.15	33.81	37.49	–9.8
Other[2]	44.99	41.04	–	43.29	–	–
Total[3]	**33.99**	**34.30**	**35.90**	**34.85**	**36.94**	**–5.7**
U.S. Total[4]	**35.09**	**35.02**	**36.81**	**35.74**	**37.58**	**–4.9**

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 1996.

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 $20 to $60 per short ton ($18.14 to $54.43 per metric ton) inclusively.

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

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

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

Table B9. U.S. Metallurgical Coal Exports

(Metric Tons)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**1,575,771**	**1,730,111**	**1,700,934**	**4,857,527**	**5,896,379**	**–17.6**
Canada[1]	1,443,648	1,610,503	1,580,293	4,437,172	5,470,080	–18.9
Mexico	132,123	119,608	120,641	420,355	426,299	–1.4
South America Total	**1,486,318**	**1,985,992**	**1,634,924**	**6,932,066**	**6,181,168**	**12.1**
Argentina	41,903	80,056	34,425	251,390	263,627	–4.6
Brazil	1,444,415	1,905,936	1,600,499	6,680,676	5,846,920	14.3
Chile	–	–	–	–	70,442	–
Other[2]	–	–	–	–	179	–
Europe Total	**6,773,284**	**6,042,813**	**6,423,511**	**26,128,326**	**25,630,643**	**1.9**
Belgium & Luxembourg	752,866	639,808	603,634	3,059,216	3,125,021	–2.1
Bulgaria	101,533	307,366	256,114	1,010,820	1,101,065	–8.2
Finland	125,853	198,238	–	454,744	489,466	–7.1
France	627,345	672,346	822,157	2,772,438	2,797,497	–.9
Germany, FR	157,415	161,378	233,973	589,277	487,984	20.8
Ireland	–	–	–	109,607	–	–
Italy	1,086,463	1,000,926	1,167,767	4,156,048	4,801,595	–13.4
Netherlands	873,806	879,565	990,559	3,732,075	3,757,146	–.7
Norway	21,402	16,357	14,684	81,390	55,438	46.8
Portugal	64,050	64,083	61,709	194,175	158,164	22.8
Romania	608,960	409,513	353,674	1,948,774	1,371,692	42.1
Spain	577,292	465,337	542,622	2,042,374	1,907,526	7.1
Sweden	370,898	231,418	336,990	756,292	895,308	–15.5
Turkey	348,577	408,858	480,650	1,893,096	1,838,634	3.0
United Kingdom	1,045,025	573,578	558,978	3,279,351	2,794,995	17.3
Other[2]	11,799	14,042	–	48,649	49,112	–.9
Asia Total	**1,810,342**	**1,762,949**	**2,099,785**	**7,237,421**	**7,996,328**	**–9.5**
China (Taiwan)	242,971	135,199	104,918	503,119	340,902	47.6
Israel	60,618	34,152	122,209	123,886	240,824	–48.6
Japan	914,055	1,094,392	1,233,094	4,346,498	5,036,875	–13.7
Korea, Republic of	592,698	488,803	639,564	2,242,768	2,356,365	–4.8
Other[2]	–	10,403	–	21,150	21,362	–1.0
Africa Total	**530,912**	**445,875**	**444,932**	**2,158,311**	**2,331,157**	**–7.4**
Algeria	49,904	89,874	55,919	239,577	160,162	49.6
Egypt	241,950	205,846	222,412	1,023,605	940,412	8.8
Morocco	–	–	–	–	33,184	–
South Africa, Rep of	239,058	150,155	166,601	895,129	1,197,399	–25.2
Total	**12,176,627**	**11,967,740**	**12,304,086**	**47,313,651**	**48,035,675**	**–1.5**

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

2 Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 1996.

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 B10. Average Price of U.S. Metallurgical Coal Exports

(Dollars per Metric Ton)

Continent and Country of Destination	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**$39.65**	**$37.83**	**$40.31**	**$39.01**	**$40.55**	**–3.8**
Canada[1]	38.28	36.42	39.39	37.59	39.67	–5.3
Mexico	54.82	58.97	53.25	54.96	52.20	5.3
South America Total	**49.03**	**48.86**	**49.33**	**48.86**	**49.18**	**–.7**
Argentina	51.95	54.48	55.63	53.88	51.67	4.3
Brazil	48.95	48.63	49.19	48.67	49.31	–1.3
Chile	–	–	–	–	33.36	–
Other[2]	–	–	–	–	55.87	–
Europe Total	**52.32**	**52.36**	**52.49**	**52.48**	**52.55**	**–.1**
Belgium & Luxembourg	54.08	51.79	54.63	53.28	53.66	–.7
Bulgaria	51.07	50.27	48.75	51.17	47.80	7.0
Finland	46.25	48.54	–	47.81	48.73	–1.9
France	52.04	52.95	52.81	52.03	51.95	.2
Germany, FR	54.42	50.89	56.64	52.73	54.97	–4.1
Ireland	–	–	–	41.25	–	–
Italy	53.97	54.82	53.87	53.85	52.80	2.0
Netherlands	51.77	52.64	50.28	51.92	52.13	–.4
Norway	64.35	–	57.20	64.35	62.89	2.3
Portugal	48.50	48.50	49.50	48.84	49.83	–2.0
Romania	48.47	47.18	47.82	49.94	51.76	–3.5
Spain	54.84	53.23	56.85	54.27	56.13	–3.3
Sweden	53.22	52.88	52.66	53.13	53.13	*
Turkey	49.04	51.23	46.70	50.79	49.09	3.5
United Kingdom	52.08	53.23	54.57	53.45	54.11	–1.2
Other[2]	63.57	66.04	–	65.40	63.31	3.3
Asia Total	**46.85**	**48.46**	**46.52**	**48.10**	**47.90**	**.4**
China (Taiwan)	47.32	46.03	48.33	47.35	49.86	–5.0
Israel	38.50	44.65	45.10	43.86	45.10	–2.7
Japan	43.35	46.93	46.24	45.94	46.51	–1.2
Korea, Republic of	52.90	52.52	47.04	52.56	50.79	3.5
Other[2]	–	63.15	–	63.28	65.43	–3.3
Africa Total	**53.91**	**52.55**	**55.75**	**54.78**	**56.07**	**–2.3**
Algeria	52.35	50.01	56.48	51.41	55.37	–7.2
Egypt	53.87	54.91	57.07	56.56	58.84	–3.9
Morocco	–	–	–	–	33.40	–
South Africa, Rep of	54.28	50.86	53.75	53.64	54.61	–1.8
Total[3]	**49.54**	**49.09**	**49.49**	**50.00**	**50.04**	**–.1**
U.S. Total[4]	**49.56**	**49.31**	**49.55**	**50.10**	**50.14**	**–.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 1996.

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 $20 to $60 per short ton ($18.14 to $54.43 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 B11. U.S. Coal Imports

(Metric Tons)

Continent and Country of Origin	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**368,064**	**279,197**	**342,420**	**1,099,428**	**1,300,730**	**–15.5**
Canada	368,064	279,197	337,781	1,099,108	1,294,100	–15.1
Mexico	–	–	4,639	320	6,630	–95.2
South America Total	**1,207,081**	**1,357,757**	**756,696**	**4,201,364**	**3,619,341**	**16.1**
Argentina	–	–	–	12	–	–
Colombia	642,173	945,317	492,111	2,827,805	2,292,279	23.4
Venezuela	564,908	412,440	264,585	1,373,547	1,327,062	3.5
Europe Total	**7,528**	**2,192**	**395**	**24,163**	**2,369**	**([1])**
Belgium & Luxembourg	1,038	2,171	369	5,458	2,243	143.3
Germany, FR	–	17	–	18	–	–
Norway	6,298	–	–	18,491	–	–
Spain	–	–	–	–	90	–
Switzerland	182	–	–	182	–	–
Turkey	–	–	26	–	36	–
United Kingdom	10	4	–	14	–	–
Asia Total	**408,232**	**376,759**	**466,811**	**1,324,946**	**1,392,520**	**–4.9**
China (Mainland)	976	434	–	1,820	–	–
Hong Kong	–	–	–	–	1	–
Indonesia	407,256	357,767	466,809	1,293,569	1,392,517	–7.1
Japan	–	–	2	–	2	–
Vietnam	–	18,558	–	29,557	–	–
Oceania & Australia Total	**28,170**	**–**	**57,249**	**141,988**	**149,498**	**–5.0**
Australia	28,170	–	57,249	104,789	149,498	–29.9
New Zealand	–	–	–	37,199	–	–
Total	**2,019,075**	**2,015,905**	**1,623,571**	**6,791,889**	**6,464,458**	**5.1**

[1] Changes of 500 percent or more are not shown.

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

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

Table B12. Average Price of U.S. Coal Imports

(Dollars per Metric Ton)

Continent and Country of Origin	October - December 1997	July - September 1997	October - December 1996	Year to date		
				1997	1996	Percent Change
North America Total	**$44.71**	**$43.19**	**$40.96**	**$42.01**	**$38.46**	**9.2**
Canada	44.71	43.19	41.03	42.01	38.47	9.2
Mexico	–	–	37.60	–	36.85	–
South America Total	**36.11**	**35.57**	**35.35**	**35.81**	**34.44**	**4.0**
Colombia	34.36	35.69	35.41	35.40	34.61	2.3
Venezuela	38.11	35.29	35.24	36.66	34.14	7.4
Europe Total	**54.25**	–	–	**54.25**	–	–
Norway	54.51	–	–	54.51	–	–
Switzerland	45.51	–	–	45.51	–	–
Asia Total	**36.23**	**36.25**	**34.63**	**36.43**	**35.77**	**1.8**
Indonesia	36.23	35.32	34.63	36.18	35.77	1.1
Vietnam	–	54.11	–	54.11	–	–
Oceania & Australia Total	**34.66**	–	**36.62**	**36.89**	**36.83**	**.2**
Australia	34.66	–	36.62	36.89	36.83	.2
Total[1]	**37.69**	**36.70**	**36.00**	**36.93**	**35.46**	**4.1**
U.S. Total[2]	**38.02**	**37.14**	**38.09**	**37.83**	**36.87**	**2.6**

[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 $55 per short ton ($18.14 to $49.90 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

Appendix C

Explanatory Notes

Data Sources

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

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

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 and three annual coal surveys--of manufacturers consuming coal, of coke plants, and of producers and 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 coal for all uses other than coke production. 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 one thousand or more tons in the past year were required to report. At present, 633 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 99 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 Notes 3 and 5 for data adjustment procedures for coal receipts and consumption, respectively, for the industrial sector.

Current year data from this survey are preliminary and unrevised in the January - March, April - June, July - September, and October - December issues of this publication. Any revisions necessary for the entire year are applied and the data are considered final when published in the report *Coal Industry Annual* in the summer of the following year.

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.

Presently, there are 27 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, and October - December issues of this publication. Any revisions necessary for the entire year are applied and the data are considered final when published in the report *Coal Industry Annual* in the summer of the following year.

Quarterly Coal Report (Form EIA-6, Schedule Q)

Schedule Q of Form EIA-6 is used to survey, on a quarterly basis, all U.S. companies that produce 30,000 or more short tons of coal annually, and coal distribution companies that average coal stocks of 10,000 or more short tons per quarter. Data on coal production, producer stocks, and distributor stocks, by coal-producing State, are reported.

Current year data from this survey are preliminary and unrevised in the January - March, April - June, July - September, and October - December issues of this publication. Any revisions necessary for the entire year are applied and the data are considered final when published in the report *Coal Industry Annual* in the summer of the following year.

There are 631 active respondents on the Schedule Q, Form EIA-6 survey. 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, when other companies are named as sources of coal purchases.

Coal Distribution Report (Form EIA-6)

Prior to 1996, the Form EIA-6 was used to survey, on a quarterly basis, all U.S. companies (producers and/or distributors) that own or purchase and distribute more than 50 thousand short tons of coal annually with the exception of Arkansas, Maryland, Oklahoma, and Pennsylvania-Anthracite, which have a 10-thousand-short-tons threshold annually. Beginning with the 1996 data collection, this survey is conducted annually. Data on coal production and purchases, distribution by consumer category, and method of transportation are reported.

At present, there are 950 respondents to the EIA-6 survey. Until the end of 1988, coal distribution companies were required to report production on a Bureau of Mines district basis. For the year 1989, respondents were required to report on a BOM district/State basis. Beginning with the first quarter of 1990, respondents were required to report on a State basis. The 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 represent only the domestic coal distributed; therefore, imported coal distributed is not included.

Current year data from this survey are considered final when published in the report, *Coal Industry Annual,* in the summer of the following year.

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 in the United States. Detailed data are required of coal mining operations that produce, process, or prepare 10 thousand or more short tons of coal annually. Data on coal production, coalbeds mined, stocks, employment, productivity, productive capacity, and recoverable reserves are reported. The EIA annual publication *Coal Industry Annual* (DOE/EIA-0584) is prepared from data reported on this survey.

At present, there are 2,207 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 the Mine Safety and Health Administration (MSHA). The respondents on this survey are compared with those on 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).

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)

Prior to the 1996 data collection, Form EIA-759 was 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 were reported. The respondents to Form EIA-759, approximately 700 plants, accounted for 100 percent of total electric utility generation.

Beginning with the 1996 data collection, the Form EIA-759 is a cutoff model sample of approximately 360 electric utilities drawn from the frame of all operators of electric utility plants (approximately 700 electric utilities) that generate electric power for public use. Data will be collected on an annual basis from the remaining operators of electric utility plants. The new monthly data collection is from all utilities with at least one plant with a name-plate capacity of 25 megawatts or more. (Note: includes all nuclear units). However, the few utilities that generate electricity by using renewable fuel sources other than hydroelectric are all included in the sample. The Form EIA-759 is used to collect monthly data on net generation; consumption of coal, petroleum, and natural gas; and end-of-the-month stocks of coal and petroleum for each plant by fuel-type combination.

Data from this survey are preliminary and unrevised in all four quarterly issues of the publication for the reporting year. Usually in the following year's January - March issue, any 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 or combined-cycle generating capacity of 50 megawatts or more. It is submitted by approximately 230 electric utilities. 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. Usually in the following year's January - March issue, any revisions necessary for the entire prior year are applied and the data are considered final.

Annual Nonutility Power Producer Report (Form EIA-867)

The Form EIA-867 is a mandatory annual survey of all existing and planned nonutility electric generating facilities in the United States with a total generator nameplate capacity of one or more megawatts. In 1992, the reporting threshold of the Form EIA-867 was lowered to include all facilities with a combined nameplate capacity of one or more megawatts. Previously, data were collected every 3 years from facilities with a nameplate capacity between 1 and 5 megawatts.

The form is used to collect data on the installed capacity, energy consumption, generation, and electric energy sales to electric utilities and other nonutilities by facility. Additionally, the form is used to collect data on the quality of fuels burned and the types of environmental equipment used by the respondent.

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. 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. Prior to the 1996 data collection, data sources for the ***other industrial plants*** sector and the ***manufacturing*** sector were Forms EIA-6 and EIA-3, respectively. Beginning with the 1996 data collection, data sources for the ***other industrial plants*** sector are Forms EIA-6, EIA-3, EIA-867, and EIA-7A. 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 for deriving data.

2. 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. Prior to the 1996 data collection, shipments of coal to this sector, reported by producers and distributors of coal on the quarterly Form EIA-6, were equated to coal receipts and consumption by the ***residential and commercial*** sector, assuming no stock changes.

Beginning with 1996 data, annual shipments of coal to this sector in the previous reporting year, as reported on the Form EIA-6, are presented for each quarter as follows: 30 percent for January - March, 20 percent for April - June, 20 percent for July - September, and 30 percent from October - December, and are considered preliminary. When final data are received for the current year on the annual Form EIA-6, the data are prorated as noted above and reported as final in the report *Coal Industry Annual* in the summer following the year of the data.

3. 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. Prior to 1996 data, coal receipts were derived for each State by two methods, and the method producing the larger value for a State was chosen. The two methods were (1) receipts as reported on Form EIA-3, and (2) shipments to the ***other industrial plants*** sector as reported on the quarterly Form EIA-6, which included shipments to the ***transportation*** sector.

Beginning with the 1996 data collection, current quarter coal receipts for each State are derived as follows: Quarterly "Other Industrial" Coal Receipts (State X) = EIA-3 Coal Receipts (State X) + Y (State X), where:

Y (State X) = (EIA-6 Coal Distribution to Agriculture Mining & Construction Sectors (State X, Year - 1) + Coal Distribution to Transportation Sector (State X, Year - 1) + EIA-7A Coal Consumption at Coal Mines (State X, Year - 1) + EIA-867 Coal Consumption at Other Mines (State X, Year - 1))/4.

Residential and Commercial. Shipments to the ***residential and commercial*** sector are reported on Form EIA-6 and defined as receipts for this end-use sector. See Technical Note 2.

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

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

Other Industrial Plants. Respondents (manufacturing plants only) are asked to report on Form EIA-3 the number of tons of coal received 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 2.

5. Consumption

Quarterly Data

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

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

Nonutility Electric Generating Facilities. Coal consumption for these facilities is reported on the annual Form EIA-867. EIA estimates quarterly coal consumption for facilities categorized in SIC 49 -- independent power producers and cogeneration plants not included in the other industrial, coke, and commercial sectors. (See footnote to Tables 1 and 37.) For current year quarterly coal consumption, EIA estimates annual consumption based on the prior year's coal consumption and divides the total by four. For historical years, the annual coal consumption reported on the EIA-867 is divided by four to devise quarterly coal consumption.

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 prior to 1996 data, the first step is to equate consumption to beginning stocks plus receipts minus ending stocks. In terms of an equation, consumption can be expressed as C = Sb + R - Se, where Sb = beginning stocks, R = receipts, and Se = ending stocks.

Therefore, consumption is C = (Sb - Se (change in stocks)) + R. Next, stock change at the State level is equated to the stock change for that State as reported on Form EIA-3. Receipts at the State level are derived as described in Section 3, and a computed consumption is derived by 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's consumption for that State. Total quarterly consumption for the ***other industrial plants*** sector is computed by summing the quarterly State-level consumption figures.

Beginning with the 1996 data collection, current quarter coal consumption for each State is derived as follows: Quarterly "Other Industrial" Coal Consumption (State X) = EIA-3 Coal Consumption (State X) + Y (State X), where:

Y (State X) = (EIA-6 Coal Distribution to Agriculture Mining & Construction Sectors (State X, Year - 1) + Coal Distribution to Transportation Sector (State X, Year - 1) + EIA-7A Coal Consumption at Coal Mines (State X, Year - 1) + EIA-867 Coal Consumption at Other Mines (State X, Year - 1))/4.

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. See Technical Note 2.

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.

Since 1988, monthly coal consumption at coke plants is derived from quarterly coal consumption reported on Form EIA-5 by 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.

Since 1988, monthly coal consumption for the other industrial plants sector is derived from quarterly coal consumption by 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.

Since 1988, monthly coal consumption figures are derived by 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.

6. Stocks

Quarterly Data

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

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

Nonutility Electric Generating Facilities. No coal stocks data are available.

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 2.

Producer and Distributor. Beginning with the 1996 data, coal stocks are reported on the quarterly Form EIA-6, Schedule Q, and the annual Form EIA-6. Prior to 1996, stock data were reported on the quarterly 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. For 1980 and subsequent years, the stock level at coke plants 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.

Since 1983, quarterly stock changes in other industrial sector, as reported on Form EIA-3, are apportioned by month in the same manner as described for coke plants in the preceding paragraph.

7. 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, Schedule Q, 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 Industry Annual* report (DOE/EIA-0584).

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 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 by 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 variations, except in years when there were supply disruptions, i.e., coal miners' strike, floods, etc. In these cases the latest quarter's data are used and adjusted. In other cases, the ratio of rail tonnage to total production may also be 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, Arkansas, Louisiana, Missouri, Texas, and Washington. With the exception of Louisiana, production data for each "nonrail" State are developed by multiplying the esti-

mate of U.S. weekly coal production by the ratio of the previous quarter production for each State to U.S. total production. The EIA contacts the largest producer in Louisiana to develop weekly production data for Louisiana.

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, eastern and western Kentucky, and northern and southern West Virginia. To determine the distribution of railroad carloadings by 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 multiplied by the current week's tonnage derived from the carloading reports filed with AAR to determine the State tonnages for each railroad. These tonnages 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 and sums 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

Prior to 1996 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.

Beginning with 1996 data, estimates of quarterly coal production by State are equated to the State-level production totals as reported on the Form EIA-6, Schedule Q, supplemented, when required, with data from the Mine Safety and Health Administration, U.S. Department of Labor, Form 7000-2, "Quarterly Mine Employment and Coal Production Report," and State mining agency production reports.

The quarterly production data, although published throughout the year, are considered preliminary until EIA finalizes the annual production data in the summer 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, Schedule Q, in March of the following year, the preliminary estimate of fourth-quarter U.S. total production and the corresponding State-level production are revised. In addition, any revisions to the data for the first three quarters of the Form EIA-6, Schedule Q, are reflected in the fourth quarter *Quarterly Coal Report.*

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

8. 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 on the basis of information on imports provided monthly by the Canadian government.

9. 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, 36, 43, 6/7, 8, 9, 10, 11, 12, 13, 16 and 17, and are presented, respectively, in Tables B1 through B12.

10. 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). :sk 6.5i.

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.

11. Price Data and Taxes

The price data reported in this publication include relevant local, State, and Federal excise and sales taxes.

12. Approximate Heat Content of Coal

Table C2 presents the approximate heat content of coal by rank and disposition for 1990 through 1996.

The following methodology was used to derive the heat content of coals as presented in Table C2:

Anthracite, Total Consumption. Calculated annually by the Energy Information Administration (EIA) by dividing the sum of the heat content of anthracite consumed by electric utilities and all other sectors combined by the total quantity of anthracite consumed.

Anthracite, Consumption by Electric Utilities. Calculated annually by EIA by dividing the heat content of anthracite receipts at electric utilities by the quantity of anthracite received at electric utilities. Heat contents and receipts are from Form FERC-423 and predecessor forms.

Anthracite, Consumption by Sectors Other Than Electric Utilities. Calculated annually by EIA by dividing the heat content of anthracite production less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumed by sectors other than electric utilities less the quantity of anthracite stock changes, losses, and "unaccounted for."

Anthracite, Imports and Exports. EIA assumed the anthracite imports and exports to be freshly mined anthracite having an estimated heat content of 25.40 million Btu per short ton.

Anthracite, Production. Calculated annually by EIA by dividing the sum of the heat content of freshly mined anthracite (estimated to have an average heat content of 25.400 million Btu per short ton) and the heat content of anthracite recovered from culm banks and river dredging (estimated to have a heat content of 17.500 million Btu per short ton) by the total quantity of anthracite production.

Bituminous Coal and Lignite, Total Consumption. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite consumed by electric utilities, coal coke plants, other industrial plants, the residential and commercial sector, and the transportation sector by the sum of their respective tonnages.

Bituminous Coal and Lignite, Consumption by Coke Plants. Estimated by EIA to be 26.800 million Btu per short ton on the basis of an input/output analysis of coal carbonization.

Bituminous Coal and Lignite, Consumption by Electric Utilities. Calculated annually by EIA by dividing the total heat content of bituminous coal and lignite received at electric utilities by the total quantity received at electric utilities. Heat contents and receipts are from Form FERC-423 and predecessor forms.

Bituminous Coal and Lignite, Consumption by Other Industrial and Transportation Users. 1973: Calculated by EIA through regression analysis measuring the difference between the average Btu value of coal consumed by other industrial users and that of coal consumed at electric utilities in the 1974-1982 period. 1974 forward: Calculuated annually by EIA by assuming that the bituminous coal and lignite delivered to other industrial users from each coal-producing area (reported on Form EIA-6 and predecessor Bureau of Mines Form 6-1419-Q) contained a heat value equal to that of bituminous coal and lignite received at electric utilities from each of the same coal-producing areas (reported on Form FERC-423). The average Btu value of coal by coal-producing area was applied to the volume of deliveries to other industrial users from each coal-producing area, and the sum total of the heat content was divided by the total volume of deliveries. Coal-producing areas are the Bureau of Mines coal-producing districts for 1974 through 1989 and coal-producing States for 1990 forward.

Bituminous Coal and Lignite, Consumption by Residential and Commercial Users. 1973: Calculated by EIA through regression analysis measuring the difference between the average Btu value of coal consumed by residential and commercial users and that of coal consumed by electric utilities in the 1974-1982 period. 1974 forward: Calculuated annually by EIA by assuming that the bituminous coal and lignite delivered to residential and commercial users from each coal-producing area (reported on Form EIA-6 and predecessor Bureau of Mines Form 6-1419-Q) contained a heat value equal to that of bituminous coal and lignite received at electric utilities from each of the same coal-producing areas (reported on Form FERC-423). The average Btu value of coal by coal-producing area was applied to the volume of deliveries to residential and commercial users from each coal-producing area, and the total of the heat value was divided by the total volume of deliveries. Coal-producing areas are the Bureau of Mines coal-producing districts for 1974 through 1989 and coal-producing States for 1990 forward.

Bituminous Coal and Lignite, Exports. Calculated annually by EIA by dividing the sum of the heat content of exported metallurgical coal (estimated to average 27.000 million Btu per short ton) and the heat content of exported steam coal (estimated to have an average thermal content of 25.000 million Btu per short ton) by the total quantity of bituminous coal and lignite exported.

Bituminous Coal and Lignite, Imports. EIA estimated the average thermal conversion factor to the 25.000 million Btu per short ton.

Bituminous Coal and Lignite, Production. Calculated annually by EIA dividing the sum of the heat content of bituminous coal and lignite consumption, net exports, stock changes, and unaccounted for by the sum of their respective tonnages. Consumers' stock changes by sectors were assumed to have the same conversion factor as that of the consumption sector. Producers' stocks changes and unaccounted for were assumed to have the same conversion factor as that for consumption by all sectors.

Coal, Consumption. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite consumption by the sum of their respective tonnages.

Coal, Consumption by Electric Utilities. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite received at electric utilities by the sum of their respective tonnages received.

Coal, Consumption by Sectors Other Than Electric Utilities. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite consumed by sectors other than electric utilities by the sum of their respective tonnages.

Coal, Exports. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite exported by the sum of their respective tonnages.

Coal, Imports. Calculated annually by EIA by dividing the sum of the heat content of bituminous coal and lignite and anthracite imported by the sum of their respective tonnages.

Coal, Production Calculated annually by EIA by dividing the sum of the total heat content of bituminous coal and lignite and anthracite production by the sum of their respective tonnages.

Coal Coke, Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Table C2. Approximate Heat Content of Coal

(Million Btu per Short Ton)

Coal Rank Sector	1990	1991	1992	1993	1994	1995	1996
Anthracite							
Production	23.574	22.573	22.572	22.573	22.572	22.572	22.573
Consumption	21.668	21.410	21.423	21.262	20.828	20.808	20.652
Non-electric utility users	25.199	25.268	24.617	24.096	25.037	24.696	24.638
Electric utilities	16.140	15.858	16.944	16.534	14.680	14.572	14.360
Imports and exports	25.400	25.400	25.400	25.400	25.400	25.400	25.400
Bituminous Coal and Lignite							
Production	21.819	21.678	21.643	21.383	21.347	21.271	21.281
Consumption	21.330	21.146	21.142	20.983	21.011	20.845	20.857
Residential and commercial	22.678	22.635	22.768	22.749	22.683	22.767	22.649
Coke plants	26.800	26.800	26.800	26.800	26.800	26.800	26.800
Other industrial and transportation	22.444	22.448	22.242	22.111	22.046	21.931	22.087
Electric utilities	20.935	20.761	20.792	20.644	20.681	20.502	20.532
Imports	25.000	25.000	25.000	25.000	25.000	25.000	25.000
Exports	26.207	26.192	26.165	26.341	26.335	26.187	26.181
Coal Coke	24.800	24.800	24.800	24.800	24.800	24.800	24.800

Note: All values shown for 1996 and previous years are final.

Source: Calculated by Energy Information Administration. See *Monthly Energy Review*, DOE/EIA-0035, Appendix A for detailed description.

Glossary

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- ***Kentucky, Eastern*** All mines located in counties other than the Western Kentucky counties.
- ***Kentucky, Western*** All mines in the following counties in Western Kentucky: Butler, Caldwell, Christian, Crittenden, Daviess, Edmonson, Grayson, Hancock, Henderson, Hopkins, Logan, McLean, Muhlenberg, Ohio, Simpson, Todd, Union, Warren, and Webster.
- ***Pennsylvania Anthracite*** All mines in the following counties: Carbon, Columbia, Dauphin, Lackawanna, Lebanon, Luzerne, Northumberland, Schuylkill, Sullivan, and Susquehanna. All anthracite mines in Bradford County.
- ***Pennslyvania Bituminous*** All mines located in counties other than the Pennsylvania anthracite counties and all bituminous mines in Bradford County.
- ***West Virginia, Northern*** All mines in the following counties (formerly defined as Coal-Producing Districts 1, 3, & 6): Barbour, Brooke, Braxton, Calhoun, Doddridge, Gilmer, Grant, Hancock, Harrison, Jackson, Lewis, Marion, Marshall, Mineral, Monongalia, Ohio, Pleasants,

Preston, Randolph, Ritchie, Roane, Taylor, Tucker, Upshur, Webster, Wetzel, Wirt, and Wood.

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

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

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

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

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

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

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

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

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

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

GE = Greater than or equal to
LT = Less than.

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

Metallurgical Coal (or coking coal): A coal that meets the requirements for making coke. It must have a low ash and sulfur content and form a coke that is capable of supporting the charge of iron ore and limestone in a blast furnace. A blend of two or more bituminous coals is usually required to make coke.

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.

Steam Coal: A coal that is used in boilers to generate steam to produce electricity or for other purposes.

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 (mmf) basis:

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

GE = Greater than or equal to
LT = Less than.

Sulfur: One of the elements present in varying quantities in coal that contributes to environmental degradation when coal is burned. In terms of sulfur content by weight, coal is generally classified as low (less than or equal to one percent), medium (greater than one percent and less than or equal to three percent), and high (greater than three percent). Sulfur content is measured as a percent by weight of coal on an "as received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

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

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